Volume

#

R0336

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

.....

..... *Chainm*

..... *Chainm*

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

SEAL

.....

.....

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

.....

..... *Moundm*

..... *Moundm*

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

SEAL

.....

.....

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

.....

..... *Axm*

..... *Axm*

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

SEAL

.....

.....

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

..... *Flagma*

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

SEAL

.....

.....

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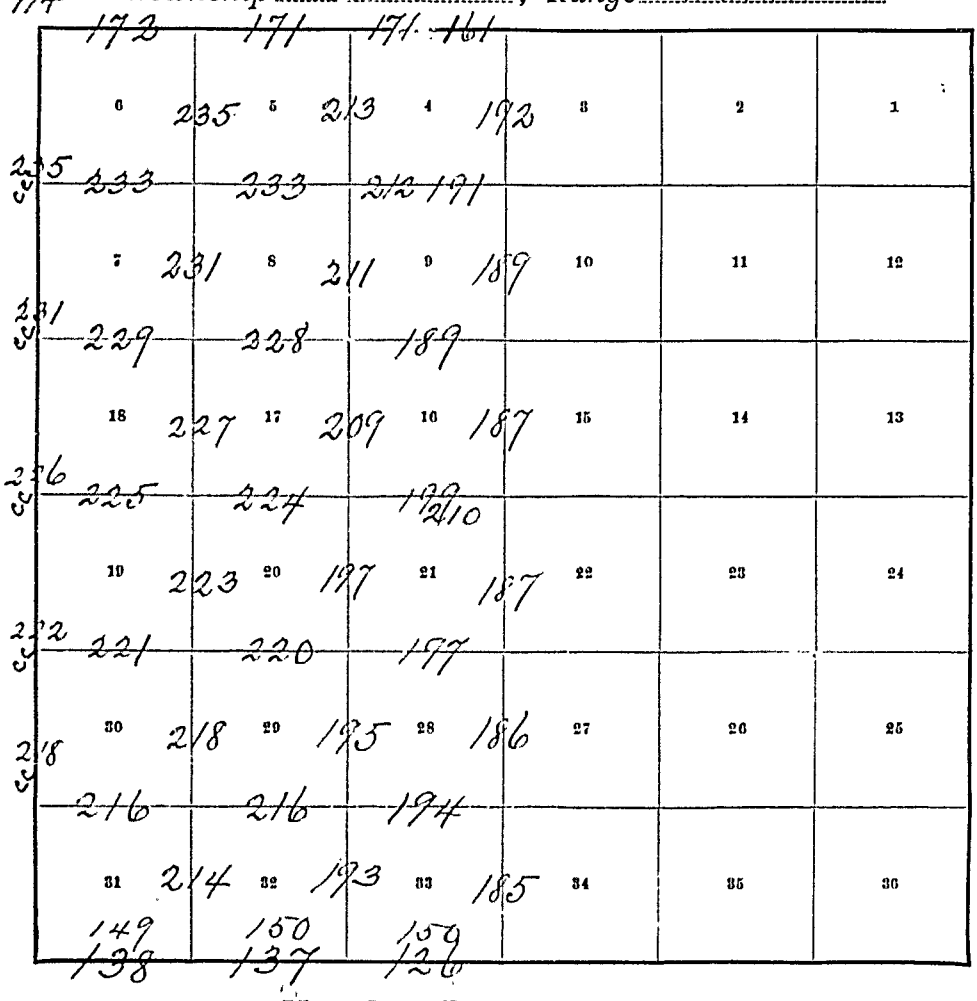
BOOK A-336

INDEX DIAGRAM.

Township 20 S., Range 17 W.



Meanders Page.....

6—161

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 ....., 189

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 ....., 189

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 ....., 189

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 ....., 189

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

..... *Chainma*

..... *Chainma*

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

SEAL

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

..... *Moundma*

..... *Moundma*

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

SEAL

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

..... *Axma*

..... *Axma*

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 .....

..... *Flagma*

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 t
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; 'h
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
.....

..... *Chainma*

..... *Chainma*

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

SEAL

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

..... *Moundma*

..... *Moundma*

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

SEAL

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

..... *Axma*

..... *Axma*

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

SEAL

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

..... *Flagma*

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

SEAL

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4—679.

A.

BOOK A-336

FILED
JAN 26 1904

L.H.

FIELD NOTES

OF THE SURVEY OF THE

South East & North Boundaries

of

Township 23 South Range 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Philip A. Schreiber, United States Deputy Surveyor,

Under his Contract No. 239, dated May 11 1900, ~~189~~

Survey commenced June 11th 1900, ~~189~~

Survey completed July 9th 1900, ~~189~~

6—161

East Bdy	length	4-10.70
" "	Lots	2 40.00
South "	length	4 20.00
North "	length	3 75.45
" "	Lots	17.50

BOOK A·336

NAMES AND DUTIES OF ASSISTANTS.

Chas Jensen, Chainman.
Byron Hall, Chainman.
Francis Francisen – Moundsman.
Carl Forshee – Moundsman.
Marinus Jensen – Axman.
Rudolph Bird – Axman.
George A Bird – Flagman.

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Chas. Jensen and Byron Hall, 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 the South East & North Boundaries of T. 23 S. R. 2 E. & East Boundary of T. 22 S. R. 2 E. of the Salt Lake Base & Meridian, Utah

Chas Jensen, Chainman.

Byron Hall, Chainman.

Subscribed and sworn to before me this 2nd day of June, ~~189~~ 1900

SEAL

Philipp D. Schreiber
U. S. Deputy Surveyor.

We, Francis Francksen and Carl Forshee, 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 South East & North Boundaries of T. 23 S. R. 2 E. & East Boundary of T. 22 S. R. 2 E. of the Salt Lake Base & Meridian, Utah

Francis Francksen, Moundman.

Carl Forshee, Moundman.

Subscribed and sworn to before me this 2nd day of June, ~~189~~ 1900

SEAL

Philipp D. Schreiber
U. S. Deputy Surveyor.

We, Marinus Jensen and Rudolph Bird, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the South East & North Boundaries of T. 23 S. R. 2 E. & East Boundary of T. 22 S. R. 2 E. of the Salt Lake Base & Meridian, Utah

Marinus Jensen, Axman.

Rudolph Bird, Axman.

Subscribed and sworn to before me this 2nd day of June, ~~189~~ 1900

SEAL

Philipp D. Schreiber
U. S. Deputy Surveyor.

I, George A. Bird, 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 South East & North Boundaries of T. 23 S. R. 2 E. & East Boundary of T. 22 S. R. 2 E. of the Salt Lake Base & Meridian, Utah

George A. Bird, Flagman.

Subscribed and sworn to before me this 2nd day of June, ~~189~~ 1900

SEAL

Philipp D. Schreiber
U. S. Deputy Surveyor.

BOOK A-336

Salina, Utah, March 14th 1904.

Charles Jensen, principal assistant to the late Philipp D. Schoeber, U. S. Deputy Surveyor, under his contract No. 239, dated May 11, 1900, being first duly sworn deposes and says: That the surveys were executed by Mr. Schoeber in his own proper person; that he was with him and assisted in the execution of said surveys, and that the same were well and faithfully executed and made in accordance with the Manual and Special Instructions.

Chas Jensen

Subscribed and sworn to before me this 14th day of March, 1904.

Jno H Evans

Notary Public.

My Commission Expires Aug 3rd 1904

BLANK

PAGE

Chains.

urvey commenced une 4, 1900, and executed with a Keuffel and Esser light mountain transit No 4424, with Saegmüller's 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 vernier of the vertical arc.

The Instrument was examined, tested on the true meridian of Salt Lake City, found correct, and was approved by the surveyor general for Utah, May 11, 1900.

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

At the S.E. cor of Tp. 23 S., R. 2 E., latitude 38° 46' N., longitude 111° 40' 29" W.; I set off, on the vertical arc, the declination of the sun, corrected for refraction and hourly change, which at 3^h 20^m p. m., l. m. t., is 22° 28' N". I bring the solar telescope into the vertical plane of the large telescope and set it horizontal. Then I set the vertical arc to 51° 14', the co-latitude, determine the true meridian, and mark the point thereof 5 chs. N. of cor., by driving an iron tack into a wooden stake, firmly set in the ground. June 4, 1900.

Chains

June 5. At 2h 59m [illegible] a. m., by my watch, which is 30m 50s fast of G. m. t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined by cutting a cross into a plug driven in the ground, 5 chs. N. of my station.

At 7 a. m., l. m. t., I lay off the azimuth of Polaris, 1°34' to the west, and mark the True Meridian thus determined, with an iron tack on the wooden stake previously set, which falls 0.5 inch west of the mark determined by the solar.

At 8h 20m a. m., m. l. t., I set off 22°34' N. on the vertical arc, bring solar telescope in line and set off 51°14' on the vertical arc; and mark a point in the true meridian determined by the solar by a cross on the stake already set 5 chs. N. of my station. This mark falls 0.1 inch west of the true meridian established by the Polaris observation. —

The solar apparatus, by p. m. and a. m. observations, defines positions for true meridians respectively about 0'26" east and 0'5" west 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 9h a. m., is N. 16° W.; the angle thus determined, reduced by the table, page 100, gives the mean magn. declination 15°55' E.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date of th
..... day of ....., 190 , 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 Manual of Surveying Instructions, and the laws of th
United States, surveyed all those parts or portions of .....
For final affidavit see book "Z[26]" Tp.23 S., R. 4½ W.

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

.....
United States Deputy Surveyo

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 190

The foregoing field notes of the re survey of the North Boundary Township No.19 S
South, Range No. 1 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D.Heist and Earl V.Woolley
under their contract No. 291, dated June 3, 190 5, having be
critically examined, and the necessary corrections and explanations made, the said field notes, and t
re surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Gener

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

.....
United States Surveyor Gener

8—151

Continued,

Chains. 16° E., 77 lks. dist., marked ¼ S.31, B.T.
In aspen, 12 inches diam., bears N.
85° E., 60 lks. dist., marked ¼ S.31, B.T.
53.60 Enter creek, 3 lks. wide, fresh water,
5 ins. deep, from S.30° W., runs N.
55.10 Leave creek, course N.20° W.
66.30 Same creek, course N.30° E.
80.00 Set a trachyte, 16 × 6 × 5 ins., 11
ins. in the ground, for cor. of secs.
25 and 36, marked 28 S. on S.W.
and 2 E. on N.W. faces, with 5 notches
on N. and 1 notch on S. edges; and
raise a mound of stone, 2 ft. base,
1½ ft high, W. of cor. Pits impracticable.
From this cor.
An aspen, 6 ins. diam., bears N.
57° W., 13 lks. dist., marked T.23 S.,
R. 2 E., S. 25, B.T.
An aspen, 5 ins. diam., bears S.45° W.,
28 lks. dist., marked T. 23 S., R. 2 E.,
S.36, B.T.
Land gently descending,
Soil, loam, 1st rate,
No timber; some scattering aspen,

North on E. bdy. of Sec. 25.,
Descend through aspen.
10.25 No trace of old cor. Set a trachyte,
16 × 12 × 9 ins., 11 ins. in the ground,
for cor. of secs. 30 and 31, marked
23 S. on S.E. and 3 E. on N.E. faces,
with 5 notches on N., and 1 notch on
S. edges, and raise a mound of stone,
2 ft base, 1½ ft high, W. of cor.
Pits impracticable.
From this cor.
An aspen, 8 ins. diam., bears N.
28° E., 16 lks. dist., marked T.23 S.,
R. 3 E. S. 30, B.T.
An aspen, 10 ins. diam., bears S.
60° E., 10 lks. dist., marked T. 23 S.,

Continued.

Chains.	R. 3 E., S. 31, B. T.
17.00	Creek, 2 lks wide, fresh water, 5' deep, course N. 65° E., in hollow, 20 ft deep. — Ascend.
23.00	Ridge, 150 ft. high, bears N. 70° E. and S. 70° W.
	Gentle descent.
32.50	Break, 30 ft deep, bears S. 70° W. 1.00 ch. and N. 75° E. 50 lks.,
	Chas. Crane's old shearing corral, bears N. 40° W.
	Chas. Crane's new shearing corral, bears N. 47 3/4° W.
33.00	Foot of break. Gentle descent.
40.00	Set a sandstone, 16 × 12 × 12 ins., 11 ins. in the ground, for 1/4 sec. cor. of sec. 25; 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.
	From this corner
	An aspen, 5 ins. diam., bears N. 32° W., 26 lks. dist., marked 1/4 S. 25, B. T.
	An aspen, 4 ins. diam., bears S. 63° W., 16 lks. dist., marked 1/4 S. 25, B. T.
44.00	Chas. Crane's old shearing corral, bears N. 72° W.
	Chas. Crane's new shearing corral, bears N. 76 1/2° W.
44.77	Chas. Crane's fence, bears E. and W.
49.68	An aspen, 16 ins. diam., on line, I mark with 2 notches on each side.
50.25	No trace of old cor. Set a trachyte, 23 × 9 × 4 ins., 18 ins. in the ground, for 1/4 sec. cor. of sec. 30, and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 5 ins. diam., bears N. 17 1/2° E., 20 lks. dist., marked 1/4 S. 30, B. T.

Continued.

Chains.	
	An aspen, 5 ins. diam., bears S. 82° E., 7 lks. dist., marked ¼ S. 30, B. T.
52.50	Leave aspen. Gully, 50 ft. deep, course N. 10° E.
59.33	Wagon road, bears N. 45° W. and S. 60° E.
63.20	Creek, 3 lks. wide, fresh water, 5 ins. deep, course N. 30° W., in gully, 30 ft. deep.
64.00	Enter scattering aspen.
74.20	Same creek, course N. 40° E.
80.00	Set a trachyte, 16 × 12 × 4 ins., 11 ins. in the ground, for cor. of secs. 24 and 25, marked 23 S. on S. W. and 2 E. on N. W. faces, with 4 notches on N. and 2 on S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 6 ins. diam., bears S. 7° W., 21 lks. dist., marked T. 23 S., R. 2 E., S. 25, B. T.
	An aspen, 4 ins. diam., bears N. 63½° W., 38 lks. dist., marked T. 23 S., R. 2 E., S. 24, B. T.
	Land, rolling.
	Soil, loam, 1st rate.
	No timber; some scattering aspen.

North on E. bdy. of sec. 24.

3.10	Creek, 3 lks. wide, fresh water, 5 ins. deep, course N. 10° W.
10.25	No trace of old cor. Set a trachyte, 16 × 8 × 6 ins., 11 ins. in the ground, for cor. of secs. 19 and 30, marked 23 S. on S. E., and 3 E. on N. E. faces, with 4 notches on N. and 2 on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	This cor. stands on the E. slope of a gully, 80 ft. above creek, 4.00 chs. E. of same.
	No trees within limits.

Continued.

10.75 Ridge, 100 ft. high, bears N. 45° W. and S. 45° E.
14.50 Enter aspen. Descend.
29.00 Gully, 50 ft. deep, course N. 65° W. from S. 65° E. Ascend.
30.00 Ridge, 50 ft. high, bears N. 65° W. and S. 65° E.
40.00 Set a trachyte, 17 × 14 × 8 ins., 12 ins. in the ground, for 1/4 sec. cor. of sec. 24, 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.
From this cor.
An aspen, 2 ins. diam., bears W., 10 links dist., marked 1/4 S. 24, B. T.
No other trees within limits.
50.25 No trace of old cor. Set a sandstone, 14 × 10 × 6 ins., 10 ins. in the ground, for 1/4 sec. cor. of sec. 19, marked 1/4 on E. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft high, W. of cor. Pits impracticable.
From this cor.
An aspen, 6 ins. diam., bears N. 34° E., 10 lks. dist., marked 1/4 S. 19, B. T.
An aspen, 5 ins. diam., bears S. 32° E., 15 lks. dist., marked 1/4 S. 19, B. T.
55.00 Gentle descent.
71.25 Steep descent.
75.30 Niotche Creek, 10 lks. wide, fresh water, 2 ft. deep, course N. 30° E., in gully, 150 ft. deep. — Ascend.
80.00 Set a trachyte, 14 × 12 × 6 ins., 10 ins. in the ground, for cor. of secs. 13 and 24, marked 23 S. on S. W. and 2 E. on N. W. faces, with 3 notches on N. and S. edges; and raise a mound of stone, 2 ft. base,

Chains. 1½ ft. high, W. of cor. Pits impracticable.
From this cor.
An aspen, 5 ins. diam., bears N. 45° W., 12 lks. dist., marked T. 23 S., R. 2 E., S. 13, B. T.
An aspen, 4 ins. diam., bears S. 64½° W., 33 lks. dist., marked T. 23 S., R. 2 E., S. 24, B. T.
Land, mountainous,
Soil, loam; 1st rate,
No timber; aspen, 65.50 chs.
~~Mountainous land 80.00 chs.~~

North on E. bdy. of sec. 13.
On W. slope of gully, through aspen.
10.00 Descend.
10.25 No trace of old cor. Set a trachyte, 18 × 10 × 5 ins., 12 ins. in the ground, for cor. of secs. 18 and 19, marked /23 S. on S. E. and 3 E. on N. E. faces, with 3 notches on N. and S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high; West of cor. Pits impracticable. From this cor.:
An aspen 4 ins. diam., bears N. 16° E., 11 lks dist., marked T. 23 S., R. 3 E., S. 18, B. T.
An aspen, 3 ins. diam., bears S. 11° E., 34 lks. dist., marked T. 23 S., R. 3 E., S. 19, B. T.
13.35 Creek, 12 lks wide, 20 ins. deep, course N. 40° E., in gully, 150 ft. deep. Ascend.
31.50 Top of spur, 250 ft. high, bears N. 43° E. and S. 43° W.
40.00 Set a sandstone, 25 × 12 × 3 ins., 18 ins. in the ground, for ¼ sec. cor. of sec. 13, marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high; W. of cor. Pits impracticable.

BOOK A-336

Continued.

Chains	
	From this cor.—
	An aspen, 5 ins. diam., bears N. 34° W., 5 lks. dist., marked ¼ S. 13, B. T.
	An aspen, 4 ins. diam., bears S. 50° W., 18 lks. dist., marked ¼ S. 13, B. T.
44.00	Hollow, 60 ft. deep, course N. 80° E.
47.00	Leave aspen. Enter dense undergrowth.
50.25	No trace of old cor. Set a sandstone, 14×14×6 ins., 10 ins. in the ground, for ¼ sec. cor. of sec. 18, marked ¼ on E. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable. No trees within limits.
	This corner stands 50 ft. above bottom of hollow.
51.30	Break, 50 ft. high, bears S. 60° W., 1.00 ch. and 60° E., 4.00 chs.
56.00	Break, 30 ft. high, bears S. 60° W., 1.00 ch. and N. 60° E., 4.00 chs.
58.00	Enter top of ridge, 100 ft. high, bears S. 85° W. and N. 77° E.
58.50	Road to Castle Valley, bears S. 85° W. and N. 77° E. Descend.
67.50	Gully, 60 ft. deep, course N. 52° E. Ascend.
80.00	Set a trachyte, 18×15×10 ins., 12 ins. in the ground, for cor. of secs. 12 and 13, marked 23 S. on S. W. and 2 E. on N. W. faces, with 2 notches on N. and 4 on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable. No trees within limits.
	Land, mountainous;
	Soil, loam; 1st rate,
	No timber; aspen, 47.00 chs.;
	ense undergrowth, 33.00 chs.
	~~omplete the Lat. of 38°00'~~
	une 5, 1900: I set off 22°34' N on the decl. arc, and at 12h 29m 1s by my watch which is 30m 50s fast of l. m. t., observe the sun on the meridian and obtai on the lat. arc the reading 38°49', which is the latitude, nearly.

Resurvey of the E. bdy. of T. 23 S., R. 3 E.

continued.

Chains	
	North on E. bdy. of Sec. 12.
	Through dense undergrowth of aspen, servas berries, choke cherries, willows and rose bushes.
10.25	No trace of old cor. Set a trachyte, 15×12×7 ins., 10 ins in the ground, for cor. of secs. 7 and 18, marked 23 S. on S.E. and 3 E. on N.E. faces, with 2 notches on N. and 4 on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 4 ins. diam., bears N. 28° E., 13 lks. dist., marked T. 23 S., R. 3 E., S. 7, B. T.
	An aspen, 4 ins. diam., bears S. 35° E., 12 lks. dist., marked T. 23 S., R. 3 E., S. 18, B. T.
28.50	Top of high ridge, 750 ft. above Notch Gulch bears S. 25° W. and N. 63° E. Descend.
40.00	Set a trachyte, 15×9×8 ins., 10 ins. in the ground, for ¼ sec. cor. of sec. 12, marked ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
50.25	No trace of old cor. Set a trachyte, 15×9×8 ins., 10 ins. in the ground, for ¼ sec. cor. of sec. 7, marked ¼ on E. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
60.00	Enter Gulch, 300 ft. deep, course N. 62° E.
61.70	Wagon road, bears S. 73° W. and N. 62° E.
	Leave gulch. Ascend.
62.50	Enter oakbrush.
66.50	Ridge, 300 ft. high, bears S. 56° W. and N. 56° E. Descend.
80.00	Set a sandstone, 15×9×8 ins., 10 ins in the ground, for cor. of secs. 1 and 12, marked 23 S. on N.W. and 2 E. on S.W. faces, with 1 notch on N. and 5 notches on S. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor. Pits impracticable.
	This cor. stands on N.W. slope of ridge, 150 ft. above foot of same. No trees within limits.

Continued

Chains.	
	Land, mountainous,
	Soil, loam, 2nd rate.
	No timber. Dense undergrowth ~~of~~ Mountainous land 80 chs.
	North on a random line on E. bdy of sec. 1.
10.25	No trace of old cor. Set temp. cor. for secs. 6 and 7.
40.00	Set temp. 1/4 sec. cor. for sec. 1.
50.25	No trace of old cor. Set temp 1/4 sec. cor. for sec. 6.
90.70	Intersect North Boundary of Tp., 30 lks E. of old cor., which is a sandstone, broken to pieces. Re-establish the cor. at the same point as follows: Set a sandstone, 19.×10×6 ins., 15 ins in the round, for cor. of Tps. 22 and 23 S., Rs. 2 and 3 E., marked 22 S on N. E., 3 E on S. E., 23 S. on S. W. and 2 E. on N. W. faces, with 6 notches on each egde; and raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor. Pits impractible. No trees within limits. This cor. is 300 ft. above Brown's Hole. Then I run S. 0°11' E. on a true line on E. bdy of Sec. 1. Ascend through oakbrush.
7.80	Ridge, 300 ft. high, bears N. 85° E. and S. 85° W. Descend on W. slope of same. Leave oakbrush. Enter some scattering pine and boulders.
24.30	Gully, 30 ft. deep, course S. 75° W. Leave pine and boulders, enter oakbrush.
40.22	Set a sandstone 15×10×5 ins., 10 ins in the ground, for 1/4 sec. cor. of sec. 6, marked 1/4 on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
46.30	Spur, 30 ft. high, bears N. 75° E. and S. 75° W.
48.80	Gully, 30 ft deep, course S. 75° W.
50.70	Set a sandstone, 17.×9×9 ins., 12 ins. in the ground, for 1/4 sec. cor. of sec. 1, marked 1/4 on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. This cor. stands on a spur, 75 ft. high, bears

Continued.

Chains.	
	Enter ravine ("Brown's Hole"), 500 ft. deep, course N. 60 W. Leave oakbrush.
66.50	Crane's corral, bears W., 4.00 chs. dist., at mouth of gully, 50 ft. deep, from S. 20° W. Leave Brown's Hole. Enter dense undergrowth. Ascend.
80.45	Set a sandstone, 16 × 10 × 7 ins., 11 ins. in the ground for corr. to sec. of secs. 6 and 7, T. 23 S. R. 3 E. marked 23 S. on S.E. and 3 E on N.E. faces, with 1 notch on N. and 5 notches on S. edges, and raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor. Pits impracticable. No trees within limits.
90.70	The cor. of secs. 1 and 12. T. 23 S. R. 2 E.
	Land, mountainous.
	Soil, loam, 1st rate
	" rocky, 3rd rate
	Timber, pine, 16.50 chs.
	Dense undergrowth, 65.50 chs.
	~~Mountainous~~ land 90.70 chs.
	June 5, 1900.

June 6, 1900.

Chains.	
	Preliminary to commencing the subdivision of this Tp., I run W. on a blank line, on the S. bdy. of sec. 36.
40.00	Find the old 1/4 sec. cor., 23 lks. N. of line. Said cor. is a trachyte, properly set and marked, 10 × 6 × 7 ins. above ground.
80.00	The old cor. of secs 35 and 36, 46 links N. of line. Said cor. is a trachyte, properly set and marked, 9 × 8 × 6 ins above ground. I continue my line W. and change my course to N. 89°40' W., on S. bdy. of sec. 35.
40.00	The old 1/4 sec. cor., 2 lks. S. of line. Said cor. is a trachyte, properly set and marked, 14 × 6 × 6 ins. above ground.
80.00	No trace of old corner. N. 89°42' W., on a blank line on S. bdy. of sec. 34.
25.00	Make a triangulation to determine the distance to the top of a bluff, whose foot is at 30.00 chs. I set a flag on line, on top of bluff. Then I measure a base line N. 0°18' E., 3.00 chs., to a point, from which the flag bears S. 65°32' W. Therefore, tan. 65°14' × base, or 2.1675 × 3.00 = 6.50 chs., which added to 25 chs., makes
31.50	top of bluff. (Note: It is impracticable to run a longer base.)
40.00	The old 1/4 sec. cor., 1 lk. S. of line, a trachyte, properly set and marked, 8 × 6 × 6 ins. above ground.
80.00	The old cor., 1 lk. S. of line, a trachyte, properly set and marked, 11 × 9 × 6 ins. above ground. N. 89°40' W. on blank line on S. bdy of sec 33.
40.00	No trace of old corner.
92.80	The old cor. which was a trachyte, has been destroyed, but there are distinct remains of it, also of a mound. Same is 16 links S. of line. Then I return to the S.E. cor of Tp. 23 S. R. 26 E. & run N. 89°40' W. bet. secs. 1 and 36. I the ascent in scattering aspen.

S 65°32' W
6.50
N 89°42' W

Chains
10.00 Steep ascent.
14.00 Gentle ascent.
20.40 Spring branch, 3 lks. wide, 3 ins. deep, course N. 60° E.
21.00 Steep ascent.
26.00 Level on gentle north slope of mesa.
33.50 A few heavy pine trees, bear N. 2.50 chs., and S.
40.00 The old cor. I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable! No trees within limits.
47.50 Leave mesa; steep descent.
60.00 Foot of steep descent; gentle descent.
76.00 Leave aspen.
80.00 The old corner of secs 35 and 36.
I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
Land, broken,
Soil, loam, 1st rate.
Aspen, 76.00 chs. A few pine.
~~Mountainous land 80.00 chs.~~
Note: On account of stormy weather I can not make an observation of latitude.

June 6, 1900.

N. 89°42' W., on S. bdy. of sec. 35.
Gentle descent, through some scattering pine and dense undergrowth.
5.00 Wagon road, bears N. and S.
16.00 Notche creek, 8 lks. wide, fresh water, 1 ft. deep, course N.
Steep ascent. Leave pine and undergrowth.
19.50 Enter elderberry brush and dandelion.
23.50 Foot of break, 10 feet high, bears S. 25 lks. and N. 1.00 ch.
25.00 Enter level top of ridge, 400 ft. above Notche creek, bears N. 18° E. and S. 18° W.
Leave brush. Enter aspen.
26.50 An aspen, 8 ins. diam., on line, marked with 2 notches on each side.
30.00 Descend. Enter aspen, pine, dead timber and boulders.

continued

Chains.	
40.00	The old cor. I raise a mound of stone 2 ft. base, 1½ ft high, W. of cor. Pits impracticable. No trees within limits.
41.25	Gully, 1.00 ch. wide, 30 ft. deep, course N.
43.50	Spur, 30 ft. high, bears N. & S.
45.85	Wagon road, bears N. 10° E. and S. 10° W.
46.70	Creek, 5 lks. wide, 8 ins deep, pure water, course N. 10° E. in hollow, 15 ft. deep, 3.00 chs. wide; gentle ascent.
55.00	East side of pond, bears N. 1.00 ch. and S. 1.00 ch., fresh water, 4 ft. deep.
57.00	West side of same.
75.00	Descend to gulch.
78.00	Bottom of gulch, 60 feet deep, course N. 45° W., from S. 45° E., gentle descent.
80.00	Set a trachyte, 20 × 12 × 6 ins., 15 ins. in the ground, for cor. of secs. 34 and 35, marked 23 S. on N. W. and 2 E. on N. E. faces, with 2 notches on E. and 4 notches on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor., Pits impracticable.
	From this cor.
	A pine, 6 ins. diam., bears N. 10° W., 10 lks. dist., marked T. 23 S., R. 2 E., S. 34, B. T.
	A pine, 12 ins. diam., bears N. 35° E., 38 lks. dist., marked T. 23 S., R. 2 E., S. 35, B. T.
	Land, broken,
	Soil, loam, 1st rate
	stony, 2nd rate
	Timber, a few pine, 65.50 chs.,
	Dry and green aspen, 49.50 chs.
	Dense undergrowth, 76.50 chs.
	~~Mountainous land 80.00 chs.~~
	N. 89°42' W. on S. bdy. of Sec. 34, through some scattering pine and big boulders. Gentle ascent.
30.00	Foot of bluff., 450 ft. high, bears S. 30° E. and N. 80° W.

Resurvey of S. bdy. of T. 23 S., R. 2 E.

BOOK PAGE 36

Continued.

Chains.	
31.50	Top of same. A bunch of pine, bears N. 45° W., 2.00 chs. and S. 30° E., 2.00 chs. Gentle ascent through some scattering pine and some scattering boulders. Enter sagebrush.
40.00	The old cor. I raise a mound of stone, 2 ft. base, 1½ ft high; W. of cor. Pits impracticable. No trees within limits. This cor. stands on top of ridge, 500 ft. high, bears S. 75° E. and N. 75° W. Descend.
46.00	Enter level ground. Leave timber, enter some scattering boulders.
67.50	Gentle descent, through pine and boulders.
69.50 Leave same 80.00	The old cor. I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits. Land, broken and mountainous. Soil, stony, 3rd rate. loam, 2nd rate. Timber, some pine, 48.50 chs. Boulders, sagebrush, 48.50 chs. Mountainous land 80.00 chs.
	N. 89°46' W. on S. bdy. of sec. 33. Gentle ascent, through dense undergrowth.
8.50	Ridge, 10 ft. above cor., bears S. 40° W. and N. 45° E. Descend on N. slope of ridge.
11.00	Enter bed of small boulders, bears N. 5.00 chs., and S. 2.00 chs.
13.00	Leave same; enter pine.
22.68	A white pine, 24 ins. diam., on line, marked with 2 notches on each side.
29.00	A balsam pine, 24 ins. diam., on line, marked with 2 notches on each side.
29.50	Leave pine.
29.80	Wood road, bears N. and S., on ridge, 500 ft. high, bears N. and S.
30.50	Steep descent. Leave dense undergrowth, enter sagebrush.
33.50	Enter small bunch of aspen, bears S. 3.00

Continued.

Chains chs. and N. 5.00 chs.
36.00 Leave same.
40.00 On S.E. slope of ridge spur, set a trachyte, 24 × 10 × 8 ins., 18 ins. in the ground, for 1/4 Sec. cor., marked 1/4 N. face, and raise a mound of s 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
45.00 Spur, 40 ft high, bears N. 45° E. and S. 45° W.
64.50 Wash, 15 lks. wide, 3 ft. deep, course N. 75° W.
67.50 Enter dense willows, bear N. and S. 1.00.
70.50 S. bank of lake, bears N., 7.00 chs. dist., width from E. to W. 5.00 chs.; from S. to N. 1.50 chs., fresh water.
75.50 Leave dense willows; some scattering bunches of willows on line.
92.80 Set a trachyte, 24 × 13 × 6 ins., 18 ins. in the ground, for reestablishment of secs 32 and 33, marked 23 S. on N.E. and 2 E. on N.W. faces, with 4 notches on E. and 2 notches on W. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.

Land, mountainous & rolling
Timber, pine, 16.50 chs., aspen 2.50 chs.,
Willows, 25.80 chs.
Dense undergrowth, 30.50 chs.
Sagebrush, 62.30 chs.
~~Mountainous land 92.80 chs.~~
Note: On account of stormy weather I can not make an observation of the latitude and meridian.

June 6, 1900.

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PAGE

Survey of N. bdy. of T. 23 S. R. 2 E.

Chain. July 9th 1900, at 8 00 a.m.
Set, I set off 22° 23' N.
on the vertical arc, bring
solar telescope into plane
of large telescope and set it
horizontal. Then I set the
vertical arc to 61° 9'
the co-latitude and determine
a true meridian at the cor.
of Ts 22 & 23 S. R. 2 and 3 E.
Thence I run
West on a blank line bet
Secs. 1 & 36. on N. bdy. of T 23 S.
R. 2 E.
40 00 No trace of old cor.
80 00 " " "
I continue this line West
without finding trace of any
old corner.
At 4 miles 12.75 chs I
intersect W. bdy. of Sec. 4,
1.00 ch. S. of Cor. of Secs
4, 5, 32 & 33, previously re-
established by me.
Then I return from cor. of T. 22 & 23 S. R. 2 & 3 E
N. 89° 50' W., bet. Secs 1 & 36.
Steep descent through dense oak brush.
15 00 Leave dense oak brush, under scattering
oak and serviceberry brush.
15.50 Dry wash, 20 lks. wide, 12 ft deep,
course W. 5.50 chs., Thence N. 75° W.
at mouth of Gulch, 5 chs. wide,
100 ft. deep, from N. 55° E.
Enter ravine, Browns Hole 500 ft
deep course N 5° W.
21.00 Leave Wash.
40.00 Set a sand-stone, 18 + 8 + 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, 1½ ft. high,

Resurvey of N. bdy. of T. 23 S., R. 2 E.
Continued

40	Chains	W. of cor.
		Pits impracticable.
		No trees within limits.
	53.60	Leave Brown's Hall, course N. 5° W.
		Leave scattering oak & serviceberry brush, enter dense oak brush.
		Ascend
	59.00	Foot of spur, 10 ft high, bears S. 25° E and N. 25° W.
	62.00	Spring, bears S., 2.00 ch dist. down.
	69.00	Gulch, 25 ft. deep, course N. 60° E.
	80.00	Set a trachyte, 14 x 7 x 5 ins; 10 ins in the ground, for cor. of Secs. 1, 2, 35 & 36, marked 23 S. on S.W. and 2 E. on N.W. face, with 1 notch on E. and 5 notches on W. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
		Pits impracticable.
		No trees within limits.
		This cor stands in dense oak brush, on E. slope of ridge, bears S. 30° E. and N. 30° W.
		Land, Mountainous
		Soil, loam, 1st rate
		No timber, oak brush, 80.00 ch.
		Serviceberry brush, 15.00 ch.
		~~Mountainous land, 80.00 ch~~
		At this cor
		I set off 22° 22' N. on the decl arc, and at 12h 5m m.t. p.m. observe the sun on the meridian; the resulting lat. is 38° 51' which is about 0.16' less than the proper latitude
		N. 89° 50' W. bet. Sec 2 & 35
		Through oak brush.
	4.50	Gully, 10 ft. deep, course S. 30° E.
	26.00	Ridge, 150 ft. high, bears S. 20° E and N 20° W.

Resurvey N. bdy. T. 23 S. R 2 E
(Continued)

Chains	
34.00	Gulch, 150 ft deep, course S. 40° E.
40.00	Set a sand-stone, 19 + 8 + 6 ins, 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, 1½ high, W. of cor. Pits impracticable. No trees within limits.
50.00	Spur, 50 ft high, bears S. 30° E.
70.50	Gully, 20 ft. deep, course S.
80.00	Set a sand-stone, 22 + 9 + 5 ins, 17 ins. in the ground, for cor. of Secs. 2, 3, 34 and 35, marked 23 S. on S.W. and 2 E. on N.W. faces, with 2 notches on E. and 4 notches on W. Edges, and raise a mound of stone, 2 ft. base, 1½ ft high, W. of cor. Pits impracticable. No trees within limits. Land, rolling, Soil, loam. 1st rate. No timber; Oak brush, 80.00 chs. Mountainous land 80.00 chs.

N. 89° 50' W. Bet. Sec. 3 & 34.
Ascend in dense oakbrush.

14.00	Spur, 500 ft. high, trends S. 21° W. 16 chs. dist; bears N. 21° E. Leave oakbrush, enter aspen and a few scattering big pines. Descend.
28.00	Gulch, 200 ft deep, course N. 40° E. Leave aspen and pine, enter dense oakbrush.
40.00	Set a sand-stone, 18 + 12 + 5 ins, 12 ins. in the ground, for 1/4 Sec. cor, marked 1/4 on north face and raise a mound

Resurvey of N. bdy. T. 23 S. R.
—Continued.

of stone, 2 ft. base, 1½ ft. high,
W. of cor.
Pits impracticable.
No trees within limits.
48.00 Dividing ridge bet. Goosberry Cree
and Browns Hole, 800 ft. above
Browns Hole, bears S. 25° E.
and N. 25° W.
Over rolling ground on S. slope,
through dense oakbrush bears
N. & S. 2.00 chs.
65.00 Leave dense oakbrush, enter
scattering oakbrush and
servisberry.
80.00 Set a trachyte, 18 + 13 + 8 ins.,
12 ins. in the ground, for
cor. of Secs. 3, 4, 33 & 34,
marked 23 S. on S.W. and
2 E. on N.W. faces, with
3 notches on E. and 3 notches
on W. edges, and raise
a mound of stone, 2 ft.
base, 1½ ft. high, W. of cor.
Pits impracticable.
No trees within limits.
Land, Mountainous, and
rolling.
Soil, Loam, 1st rate.
Timber, a few scattering
pine, 14.00 chs.
Dense undergrowth of
oakbrush, aspen & servisberries,
80.00 chains. Mountainous land 80.00 chs.

N. 89° 50' W. bet. Secs. 4 & 33.
Over rolling ground, through
scattering oakbrush.
2.00 Gentle descent.
17.50 Brax, 60 ft. deep, bears S. 15° E.
and N. 15° W.
20.00 Foot of same.

Issued of N. Pd. L. 23. P. R 2 E

Chains Steep descent.
25.00 Gentle descent.
40.00 Set a sand stone, 18 + 9 + 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, 1½ ft high, W. of cor.
Pits impracticable.
No trees within limits.
43.00 Steep descent.
43.50 Head of dry wash, 10 lks. wide, 3 ft. deep, course S. 75° W. in Porcupine Gulch.
51.00 Enter dense underbrush.
78.00 Enter same dry wash, 15 lks. wide, 5 ft. deep, course N. 50° W. in Porcupine Gulch, 200 ft. deep.
78.75 Leave dense brush, enter pine, from wash to N.
92.75 The cor. of Secs. 4, 5, 32 & 33.
Gives: 5, pine, 14.25 chs.
Dense underbrush, 27.50 "
Lattitude ~~mountain~~ on land 57.00 chs.
75.45 chs.
July 9, 1900.

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Boundaries of T 23 S. R. 2 E.

Latitudes, departures, and closing errors

Line designated	True bearing	Dist	Latitudes N.	Latitudes S.	Departures E.	Departures W.
E. Bdry.	North	400.00	400.00			
" "	N 0° 11' W.	90.70	90.70			29
N. "	N 89° 50' W.	332.95	97			332.95
Line betw. Secs. 4+5	S. 0° 06' W.	90.60		90.60		16
" " Secs. 8+9 16+17 – 20+21 – 28+29 + 32+33	South	400.00		400.00		
S. Bdry.						
Sec. 33	S. 89° 46' E.	92.80		38	92.80	
" 34+35	S. 89° 42' E.	160.00		84	160.00	
" 36	S. 89° 40' E.	80.00		47	80.00	
Convergency.						.39
			497.67	492.29 / 1.67	352.80	333.79 / 2.80
		Error in Lat		.62	Error in Dep.	.99

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

Look at page 40 For page #3

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.*

For final affidavits see book D. pp 225 & 229 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 n the foregoing field notes as having been surveyed by him and under his direction; and that said survey ıas been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the orner monuments established, according to the instructions furnished by the United States Surveyor eneral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

For final affidavits see book D. pp 225 & 229 E. ....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

ubscribed and sworn to before me this .....
day of ....., 189

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 ....., bearing date of the United States Surveyor General for ....., ... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... of the ..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor

Subscribed by said ....., and sworn to before me this ..... day of ....., 189

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 24, 1906.

The foregoing field notes of the survey of The South East Quarter of Section 23 South Range 2 East of the Salt Lake Base & Meridian, Utah

executed by Philip D. Schroeder under his contract No. 229, dated May 11 1900, 189 , 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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4—679.

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BOOK A-336

FILED
JAN 26 1904

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions
of
Township 23 South Range 2 East

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Philipp D. Schoeler, United States Deputy Surveyor,

Under his Contract No. 239, dated May 11th 1900, 189

Survey commenced June 7th 1900, 189

Survey completed July 17th 1900, 189

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high 31-33-40
low 7-63-98

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Chas. Jensen – Chainman.
Byron Hall – Chainman.
Frands Frandsen – Moundman.
Carl Forshee – Moundman.
Marinus Jensen – Axman.
Rudolph Bird – Axman.
George A Bird – Flagman.

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BOOK A-336

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We, Chas. Jensen and Byron Hall 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 the subdivisions of T. 22 & 23 S. R. 2 E. of the Salt Lake Base & Meridian, Utah.

Chas Jensen, Chainman.

Byron Hall, Chainman.

Subscribed and sworn to before me this 7th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeder
U. S. Deputy Surveyor.

We, Francis Francisen and Carl Forshee 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 T. 22 & 23 S. R. 2 E. of the Salt Lake Base & Meridian, Utah.

Francis Francisen, Moundman.

Carl Forshee, Moundman.

Subscribed and sworn to before me this 7th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeder
U. S. Deputy Surveyor.

We, Marinus Jensen and Rudolph Bird, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the subdivisions of T. 22 & 23 S. R. 2 E. of the Salt Lake Base & Meridian, Utah.

Marinus Jesson, Axman

Rudolph Bird, Axman

Subscribed and sworn to before me this 7th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeder
U. S. Deputy Surveyor

I, George A. Bird, 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 the subdivisions of T. 22 & 23 S. R. 2 E. of the Salt Lake Base & Meridian, Utah.

George A. Bird, Flagma.

Subscribed and sworn to before me this 7th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeder
U. S. Deputy Surveyor

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Chains.	1900
	June 7: At 8h 00m a. m., l. m. t., I set off 22° 44' N on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal; Then I set the vertical arc to 51° 14' co-lat and determine a true meridian, at the cor. of secs. 35 and 36, on S. bdy. of this Tp. Thence I run
	N. 0° 1' W. bet. secs. 35 and 36.
	On E. side of Niotche canõn, over rolling ground.
20.00	Enter scattering aspen, bear E. and W.
24.00	Leave same.
30.00	Enter aspen, bear E. and W.
40.00	Set a sandstone, 16 × 10 × 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.
	From this cor.
	An aspen, 4 ins. diam., bears N. 35° W., 20 lks. dist., marked 1/4 S. 35, B. T.
	An aspen, 5 ins. diam., bears S. 75° E., 5 lks dist., marked 1/4 S. 36, B. T.
42.50	A pond, 2 ft. deep, pure water, bears E. 50 lks. and W. 50 lks.
43.50	N. bank of pond:
76.50	Niotche creek, 15 lks. wide, 12 ins. deep, course N. 18° E.
79.00	Ascend.
80.00	Set a trachyte, 20 × 12 × 7 ins., 15 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked 23 S. on S. W. and 2 E. on N. W. faces, with 1 notch on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor
	An aspen, 7 ins. diam., bears N. 76° E., 32 lks. dist., marked T. 23 S., R. 2 E., S. 25, B. T.

Chains	
	An aspen, 5 ins. diam., bears N. 10° W., 3 lks. dist., marked T. 23 S., R. 2 E., S. 26, B. T.
	An aspen 4 ins. diam., bears S. 84° W., 34 lks. dist., marked T. 23 S., R. 2 E., S. 35, B. T.
	No more trees within limits.
	This cor. stands 25 ft. above creek.
	Land, rolling,
	Soil, loam, 2nd rate,
	Timber, aspen, 54.00 chs.
	S. 89°40' E., on a random line bet. secs. 25 and 36.
40.00	Set temp. 1/4 sec. cor.
80.13	The cor. of secs. 25 and 36 on E. bdy. of Tp. ~~to a point opposite~~ Thence run:
	N. 89°40' W., on a true line bet. Secs. 25 & 36.
	Through aspen, dense undergrowth,
	, on N. slope of ridge.
24.00	Leave aspen.
34.70	Ridge, 400 ft. high, bears N. 13° E., and S. 11° W.; descend.
40.06½	Set a trachyte, 20 × 8 × 8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound of stone, 2 feet base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits. This cor. stands 10 ft. below top of ridge.
46.00	Enter aspen.
51.70	An aspen, 12 ins. diam., on line, marked with 2 notches on each side.
59.30	Enter flat, bears N. 1.00 ch. and S. 3.00 chs.
62.50	Leave same.
66.00	An aspen, 1½ ft. diam., on line, marked with 2 notches on each side.
77.60	Enter canon.
78.60	Niotche creek, 15 lks. wide, 12 ins. deep, course N. 18° E.; ascend.
80.13	The cor. of secs. 25. 26. 35 and 36.
	Land, mountainous,

Continued.

Chains	
	Soil, loam 1st rate.
	Timber, aspen 58.13; dense under-growth, 58.13 chs.
	~~[illegible]~~ 80.13 chs.
	June 7: At this cor. I set off 22° 45'. N. on the decl. arc, and at 11h 58m 5 a.m. l.m.t., observe the sun on the meridian, the resulting lat. is 38° 47', which is about 0.' 6" more than the proper lat.
	N. 0° 1' W. bet secs. 25 and 26.
6.00	Enter level on steep slope towards Niotche creek.
	Enter dense undergrowth of aspen.
30.50	Gentle descent.
40.00	Set a trachyte, 18 × 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, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 12 ins. diam., bears N. 60° E., 9 lks. dist., marked 1/4 S. 25, B. T.
	An aspen, 12 ins. diam., bears S. 73° W., 9 lks. dist., marked 1/4 S. 26, B. T.
45.50	Wagon road, bears E. and W.
58.50	Enter scattering timber of pine and cedar.
68.50	Ridge, 400 ft. high, bears N. 60° E. and S. 60° W.; descend. Leave timber.
80.00	Set a trachyte, 18 × 11 × 4 ins., 12 ins. in the ground, for cor. of secs. 23. 24. 25 and 26, marked 23 S. on S. W. and 2 E. on N. W. faces, with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor. Pits impracticable.
	From this cor., an aspen, 5 ins. diam., bears N. 13° W., 62 lks. dist., marked T. 23 S., R. 2 E., S. 23, B. T.
	An aspen, 5 ins. diam., bears N. 42° E., 45 lks. dist., marked T. 23 S., R. 2 E., S. 24, B. T.

Subdivision of Sec. 25 S. W. 2 S.

continued.

Chains	
	An aspen, 6 ins diam., bears S. 12° E., 84 lks. dist., marked T. 23 S., R. 2 E., S. 25, B. T.
	An aspen, 30 ins diam., bears S. 54° W., 1.44 ch. dist., marked T. 23 S., R. 2 E., S. 26, B. T.
	Land, mountainous,
	Soil, loam, 1st rate,
	Timber, pine and cedar 10.00 chs.
	Scattering aspen, 74.00 chs.
	Mountainous land 80.00 chs.
	S. 89°40' E., on a random line bet. secs. 24 and 25.
40.00	Set temp. 1/4 sec. cor.
79.80	Intersect E. bdy. of Tp. 25 lks N. of cor. Thence S. run.
	N. 89°29' W. on a true line bet. secs. 24 and 25; steep ascent through aspen.
1.20	Top of creek bank, 60 ft. deep; bears N. 45° W. and S. 45° E.
11.90	An aspen, 10 ins. diam., on line, marked with 2 notches on each side.
12.70	Spur, 200 ft. high, bears E. and W.; steep descent.
19.70	Bench, 100 ft. deep, bears N. 35° E. and S. 35° W.
22.70	Swamp, 20 ft. above creek, bears S., 50 lks. dist.
23.40	Creek, 14 lks. wide, 1½ ft. deep, fresh water, course N. 35° E. Steep ascent.
30.00	Spring branch, S., 15 lks. dist., course E.
34.20	Leave aspen.
35.70	Gentle ascent; enter choke cherries.
39.30	Wagon road, bears S., 25 lks. dist. bears S.E. and S.W.
	Leave choke cherries.
39.90	Set a trachyte, 20 × 10 × 8 ins., 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, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.

continued.

Chains	
48.00	Over rolling ground.
50.00	Wagon road, bears N. and S.; enter aspen.
72.20	Leave aspen.
79.80	The cor. of secs. 23. 24. 25 and 26. Land, broken and mountainous, Soil, loam, 1st rate, Timber, some scattering aspen, 56.40 chs. Choke cherries, 3.60 chs. ~~Mountainous land~~ 79.80 chs. June 7, 1900.
	June 8: At 7h 45m a.m., l.m.t., set off 22°52' N. on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal. Then set off the vertical arc to 51° 12' 4" and determine a true meridian, at the cor. of secs. 23. 24. 25 and 26. N. 0° 1' W., bet. secs. 23 and 24. Through some scattering aspen, choke-cherries and undergrowth.
1.00	Gentle descent over bare ground.
13.00	Enter aspen, bear E. 1.00 ch. and W.
17.00	Leave same.
19.00	Enter Taylor's Flat.
20.50	Spring branch, heads S. 66° E., 15 chs. dist., runs N. 80° W.
21.50	Wagon road, bears N. 80° W. and S. 80° E. Ascend. Leave Taylors Flat.
36.00	Spur, 50 ft. high, bears E. and W.
40.00	Small hollow, 15 ft. deep, course N.W. Set a trachyte, 14 × 12 × 10 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. No trees on limit.
51.00	Ridge spur, 100 ft. high, bears E. and W.
80.00	Set a trachyte, 22 × 8 × 8 ins., 17 ins. in the ground, for cor. of secs. 13. 14. 23 and 24, marked 23 S. on N.E. and 2 E. on

58.50
21.50

S.E. faces, with 3 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
No trees within limits.
Land, rolling,
Soil, loam, 1st rate,
No timber; some scattering aspen, choke cherries and undergrowth, 80.00 chs.
~~Mountainous land 58.50 chs.~~

S. 89°29' E., on random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.26 Intersect E. bdy. of Tp., 24 lks S. of cor. ~~Bearings 1.24 height of deducted~~
Thence S. run
N. 89°39' W., on a true line, bet. secs 13 and 24; through scattering aspen and willows.

34.26 Hollow, 100 ft. deep, course N. 80° E.; steep ascent.

38.25 Gentle ascent; leave aspen and willows. Enter scattering aspen and choke cherries.

40.13 Set a sandstone, 18×8×6 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, W. of cor. Pits impracticable.
No trees within limits.

42.50 N. end of ridge spur, from S.

47.00 Leave aspen and choke cherries.

63.00 Wash, 10 chs. wide, 2 ft. deep, drains N. 30° E.

72.00 Ridge, 50 ft. high, bears N. 24° E. and S. 24° W.; gentle descent.

80.26 The cor. of secs. 13. 14. 23 and 24.
Land, rolling,
Soil, loam, 1st rate,
Aspen, 47.00 chs., willows 38.25 chs., choke cherries 8.75 chs. No timber.
~~Mountainous land 80.26 chs.~~
June 8: At this cor. I set off 22°52' N. on the decl. arc; and at 11h 58.m7 A.M. l. m. t., observe the sun on the meridian. the resulting lat. is 38°49'N. which is

Chains.	about 0.22" more than the proper lat.
	N. 0°1' W. bet. secs. 13 and 14.
12.00	Wagon road, bears N. 45° E. and S. 60° W.
15.00	Enter scattering aspen.
21.00	Old Shaft, 8×8 ft. wide, 12 ft. deep, bears N. 70° W.; 2.30 chains dist.
24.50	Leave aspen.
27.00	Descend.
32.50	Enter aspen.
40.00	Set a trachyte, 16×16×4 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.
	From this cor. an aspen, 6 ins. diam., bears N. 41° E., 50 lks. dist., marked 1/4 S. 13. B. T.
	An aspen, 5 ins. diam., bears N. 26° W., 47 lks. dist., marked 1/4 S. 14, B. T.
	A pond, 1.00 ch. diam., bears N. 30° W., 55 lks. dist.
51.50	Enter bare flat, bears E. 2.00 chs and W. 8.00 chs.
63.00	Spring branch (running) bears S. 79° W., 3.90 chs. dist., runs N. 35° E. 2 lks wide
65.00	Leave flat; enter aspen.
80.00	Set a trachyte, 24×12×5 ins., 10 ins. in the ground, for cor. of secs. 11. 12. 13 and 14, marked 23 S. on N. E. and 2 E. on S. E. faces, with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor. an aspen, 5 ins. diam., bears N. 25° W., 9 lks. dist., marked T. 23 S., R. 2 E., S. 11, B. T.
	An aspen 4 ins. diam., bears N. 60° E., 5 lks. dist., marked T. 23 S., R. 2 E., S. 12, B. T.
	An aspen, 5 ins. diam., bears S. 30° E.,

Chains.	
	19 lks. dist., marked T. 23 S., R. 2 E., S. 13, B.T.
	An aspen, 12 ins. diam., bears S. 41° W.,
	6 lks. dist., marked T. 23 S., R. 2 E., S. 14, B.T.
	This cor. has been set only 10 ins. in the ground; because there is a ledge of rock underneath.
	Land, rolling;
	Soil, loam, 1st rate.
	No timber; aspen, 43.50 chs.
	Dense undergrowth, 80.00 chs.
	S. 89° 39' E., on a random line bet. secs. 12 and 13.
40.00	Set temp. 1/4 sec. cor.
80.22	The cor. of secs. 12 and 13, on E. bdy. of Tp. heretofore described.
	Thence I run
	N. 89° 39' W., on a true line bet. secs. 12 and 13.
	Ascend through aspen and choke cherries.
13.00	Enter bare rocky top of ridge, 500 ft. high, bears S. 23° W. and N. 18° E.
40.11	Set a sandstone, 21 × 10 × 8 ins., 16 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.
	From this cor.
	An aspen, 8 ins. diam., bears N. 19° E., 74 lks. dist., marked 1/4 S. 12, B.T.
	An aspen, 8 ins. diam., bears S. 45° E., 67 lks. dist., marked 1/4 S. 13, B.T.
42.40	Enter flat.
47.00	Enter aspen.
51.00	Descend.
54.00	Gully, 50 ft. deep, drains N. 10° E.
	A spring branch, bears N., 50 lks. dist., N. 10° E.
59.00	Spur, 50 ft. high, bears N. and S.
80.22	The cor. of sec. 11, 12, 13 and 14.
	Land, rolling; Soil, loam, 1st rate
	No timber; aspen, 32.22 chs.
	dense undergrowth, 80.22 chs.

Chains.	
	N. 0°1' W., bet. secs. 11 and 12.
	Descend through aspen.
17.00	Spring, in gully, 15 ft. deep, drains N. 50° E.; leave Aspen.
20.00	Ridge, 15 ft. high, bears S. 75° W. and N. 75° E.
	June 3: At this point, at 9h 00m a.m., l.m.t., I set off 22°57' N on the vertical arc, bring solar telescope into plane of large telescope, and set it horizontal. Then I set the vertical arc to 51°10' to lat. and determine a true meridian.
23.00	Enter aspen.
30.00	Enter oakbrush and choke cherries.
40.00	Set a trachyte, 17 × 10 × 8 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.
	From this cor.
	An aspen, 4 ins. diam., bears N. 36° W., 8 lks. dist., marked 1/4 S. 11, B. T.
	An aspen, 4 ins. diam., bears N. 54° E., 13 lks. dist., marked 1/4 S. 12, B. T.
	This cor. stands in dense aspen, on W. side of ravine, bears N. 30° E., 150 ft. above bottom of ravine.
80.00	Set a trachyte, 16 × 10 × 6 ins., 11 ins in the ground, for cor. of secs. 1. 2. 11 and 12, marked 23 S. on N.E. and 2 E. on S.E. faces, with 5 notches on S. and 1 notch on E. edges., and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 4 ins. diam., bears N. 81½° E., 26 lks. dist., marked T. 23 S., R. 2 E., S. 1, B. T.
	An aspen, 4 ins. diam., bears S. 52° W., 40 lks. dist., marked T. 23 S., R. 2 E., S. 11, B. T.

An aspen, 4 ins. diam., bears S. 4½° E., 10 lks. dist., marked T. 23 S., R. 2 E., S. 12, B. T.
No more trees within limits.
Land, rolling,
Soil, loam, 1st rate,
No timber; aspen, 74.00 chs.,
dense undergrowth, 50.00 chs.

S. 89°39' E., on a random line, bet. secs. 1 and 12.

40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of Tp., 16 lks. N. of cor.

Thence I run
N. 89°32' W., on a true line, bet. secs. 1 and 12.
Through oakbrush.

5.25	Gulch, 150 ft. deep, course N.
12.00	Ridge, 400 ft high, bears N. and S.; steep descents.
26.10	Gully, 20 ft. deep, course N.
33.10	Ridge, 200 ft. high, bears N. and S.
39.95	Set a trachyte, 14 × 8 × 7 ins., 10 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, W. of cor. Pits impracticable.

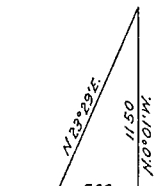
No trees within limits.

49.75	Gully, 100 ft. deep, course N. 35° W.
54.30	Spur, 50 ft high, bears N. and S.
57.85	Gulch, (West branch of Brown's Hole), 200 ft. deep, course N. 10° E.
79.90	The cor of secs. 1. 2. 11 and 12.

Land, broken,
Soil loam, 1st rate,
No timber; dense undergrowth, 79.90 chs.

Chains.	
	On account of continued stormy weather I abandon work for some time. June 8, 1900.
	I continue work July 10, 1900.
	From cor. of secs. 1. 2. 11 and 12, Tp. 23 S., R. 2 E.
	I run
	N. 0°1' W., on a random line bet. secs. 1 and 2.
40.00	Set temp. ¼ sec. cor.
91.25	Intersect N. bdy. of Tp., 50 lks. E. of cor. of secs. 1. 2. 35 and 36, previously established by me.
	Thence I run
	S. 0°20' E., on a true line bet. secs. 1 and 2.
	Ascend through oakbrush.
5.45	Gulch, 75 ft. deep, course N. 60° E.
20.45	Spur, 75 ft. high, bears N. 50° E. and S. 50° W.
29.00	Wash, 20 lks. wide, 6 ft. deep, course N. 45° E., in gully, 25 ft. deep.
32.50	Spur, 15 ft. high, bears N. 50° E and S. 50° W.
43.50	Mouth of gulch, 100 ft. deep, from W.
51.25	Set a trachyte, 16 × 12 × 10 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.
	No trees within limits.
	This cor. stands 300 ft. below next sec. cor. S., and 100 ft. above Brown's Hole.
66.00	Ridge, 100 ft. high, bears E. and W.
71.50	Gully, 20 ft. deep, course E.
72.50	Ridge, 20 ft. high, bears N. 60° E and S. 60° W.
75.50	Hollow, 20 ft. deep, course E. Ascend.
91.25	The cor. of secs. 1. 2. 11 and 12.
	Land, mountainous;
	Soil, loam, 1st rate;
	No timber. Dense undergrowth of aspen, oakbrush and servais berry, 91.25 chs.
	~~Mountainous land, 91.25 chs.~~ July 10, 1900.
	July 11, 1900; At 8h 15m a.m., l.m.t., I set off 22° 8' N. on the vertical arc, set

Chains.	
	solar telescope level and bring it into vertical plane with large telescope.
	Then I set the vertical arc to 51°14' and determine a true meridian, at the cor. of secs. 34 and 35, on S. bdy. of T. 23 S., R. 2 E. Mt. Diablo
	Thence I run
	N. 0°1' W. bet. secs. 34 and 35.
	Through aspen and boulders.
1.00	Gulch, 100 ft. deep, course S.E.
5.00	Ridge, 100 ft. high, bears S.E. and N.W.
6.00	Hollow, 2 chs. wide, 50 ft. deep, course S. 45° E.
12.00	Ridge, 50 ft. high, bears N.W. and S.E.
30.00	Gulch, 100 ft. deep, course S.E.
40.00	Set a trachyte, 24 × 14 × 6 ins., 18 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.
	From this cor.
	An aspen, 10 ins. in diam., bears S. 50° W., 12 lks. dist., marked 1/4 S. 34, B.T.
	An aspen, 15 ins. diam., bears N. 25° E., 18 lks. dist., marked 1/4 S. 35, B.T.
	This cor. stands on ridge 200 ft. high, bears S. 60° E. and N. 60° W.
	Leave boulders.
42.00	Descend.
46.00	Enter bed of boulders, bears N.W. and S.E.
67.00	A Lake "Farnsworth Reservoir" fresh water, bears S. 45° E., 15 chs., and N. 25° W., 12.00 chs. To determine the distance across the lake, I set a flag on line on N. bank of lake. Then I measure a base line, S. 89°59' W. 5.00 chs., to a point, from which the flag bears N. 23°29' E.
	Therefore, base divided by tg. 23½°, or $\frac{5}{0.4348} = 11.50$, the distance, which added to 67.00, makes
78.50	N. bank of lake.
	From here the bank of lake bears S. 34° E., 24 chs. and N. W. Enter a few pine.



Continued.

Chains.	
80.00	Set a trachyte, 15 × 12 × 6 ins., 10 ins in the ground, for cor. of secs. 26. 27. 34 and 35, marked 23 S. on N E. and 2 E. on S. E. faces, with 1 notch on S & 2 on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.-
	A pine, 18 ins. diam., bears N. 81° E., 1.50 ch dist., marked T. . 23 S., R. 2 E., S. 26, B. T.
	A pine, 16 ins diam., bears N. 88½° E., 1.56 ch. dist., marked T. 23 S., R. 2 E., S. 26, B. T.
	No more trees within limits.
	Land, mountainous, ...
	Soil, loam, 2nd rate, . . . ; boulders, 3rd rate.
	Timber, pine and cedar, 1.50 ch.; aspen, 67.00 chs.
	Mountainous land 80.00 chs.
	South 89°42' E., on a random line bet. secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.-
80.20	Intersect N. and S. line, 19 lks. N. of cor. of secs. 25, 26. 35. and 36.
	Thence I run
	N. 89°34' W., on a true line bet. secs. 26 and 35.
	Steep ascent through aspen.
2.50	Spur, 30 ft. high, bears S. 80° E. and N. 80° W.
3.50	Gully, 30 ft. deep, course S. 80° E.
13.00	Spur and top of creek bank, 200 ft. high, bears S. 75° W. and S. 80° E.
	Gentle ascent, through some scattering bunches of aspen.
21.00	Spring branch, bears N. 24° W., 6.00 chs. dist.; spring runs N. 75° W. 20 lks., into a pond, fresh water, bears E. 50 lks. and W. 50 lks., N. 1.25 chs.-
	Outlet of pond at N. end, 3 lks. wide, 4 ins. deep, runs N.
23.50	Wagon road, bears S. 75° W. and N. 75° E.

Continued.

Chains.	
	Gentle ascent.
30.00	Ridge, 20 ft. high, bears N. 60° E. and S. 60° W.
38.00	Gully, 30 ft. deep, course N. 45° E.
40.10	Set a trachyte, 18 × 12 × 6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. side; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 5 ins. diam., bears N. 14° W., 22 lks. dist., marked 1/4 S. 26, B. T.
	An aspen, 6 ins. diam., bears S. 6 1/2° E., 31 lks. dist., marked 1/4 S. 35, B. T.
	Chas. Crane's dipping corral, bears N. 40° E., 15 chs. dist.
	Steep ascent in aspen and boulders.
55.50	Enter rolling mesa, 200 ft. high, bears N. and S.
70.00	Leave same. Descend.
80.20	The cor. of secs. 26. 27. 34 and 35.
	Land, mountainous;
	Soil, loam, 1st rate
	boulders 3rd rate
	No timber; aspen, 80.20 chs.
	Mountainous land 80.20 chs.
	N. 0° 1' W. bet. secs. 26 and 27.
8.50	Dam of reservoir, bears W. 1.50 ch. dist., thence bears S. 75° W. 5.00 chs.
9.50	Outlet in center of dam, 5 lks wide, 1 ft deep, course N. 20° W. Gentle descent.
16.00	Enter aspen and boulders.
30.75	Ridge, 25 ft. high, bears E. and W.
	Leave boulders. Steep descent.
40.00	Set a trachyte, 17 × 12 × 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.
	From this cor.
	An aspen, 3 ins. diam. bears N. 38° E., 5 lks. dist., marked 1/4 S. 26, B. T.

Continued.

Chains. An aspen, 4 ins. diam., bears N. 10° W., 21 lks. dist., marked 1/4 S. 27, B. T.
This cor. stands 100 ft. below top of ridge.

77.50 Andres Larsen's fence, bears S.W. 1.20 ch., N.E. 50 lks.

78.05 Spring branch, pure water, heads S. 45° W., 80 lks. dist., course N. 10° E. 2 lks wide

80.00 Set a quartzite, 28 × 12 × 4 ins., 21 ins in the ground, for cor. of secs. 22, 23. 26 and 27, marked 23 S. on N.E. and 2 E. on S.E. faces, with 2 notches on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

From this cor.

An aspen, 7 ins. diam., bears N. 5° W., 12 lks. dist., marked T. 23 S., R. 2 E., S. 22, B. T.

An aspen, 7 ins. diam., bears S. 42° W., 12 lks. dist., marked T. 23 S., R. 2 E., S. 27, B. T.

No more trees within limits.

Land, broken,

Soil, loam, 1st rate ;

boulders, 3rd rate, 14.75 chs.

No timber.; aspen, 64.00 chs.

~~Mountainous land 89.00 chs~~

July 11: at this cor. I set off 22° 7' N. on the decl. arc; and at 12h 5m 2s, l. m. t., observe the sun on the meridian. The resulting lat. is 38° 48' N., which is about 0m.14 more than the proper lat.

S. 89° 34' E., on a random line bet. secs. 23 and 26.

40.00 Set temp. 1/4 sec. cor.

79.86 Intersect ~~N & S line~~, 4 lks. N. of cor. of ~~secs. 23 24 25 & 26~~.

Thence I run

N. 89° 32' W., on a true line bet. sec. 23 and 26; through aspen.

17.50 Creek, 5 lks. wide, 12 ins. deep; runs N. 20° W., in gulch, 40 ft. deep; pure water.

21.00 Enter pond.; fresh water, 2 ft. deep, bears N. 1.00 ch. and S. 3.00 chs.

Continued.

Chains

22.00 Leave same.

39.93 Set a trachyte, 15 × 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, W. of cor. Pits impracticable. This cor. stands
At N. end of a patch of aspen.
From this cor.
An aspen, 5 ins. diam., bears N. 40° E., 31 lks. dist., marked 1/4 S. 23, B. T.
An aspen, 12 ins. diam., bears S. 47° E., 23 lks. dist., marked 1/4 S. 26, B. T.

42.00 Ridge, 10 ft. high, bears N. 17° W. and S. 17° E.

45.00 Pond, 3 × 3 chs., fresh water, 4 ft. deep, bears N. 25° W., 7.00 chs. dist.

50.00 Creek, 5 lks. wide, 3 ins. deep, pure water, runs N. 30° W., in gully, 10 ft. deep.

59.50 Spur, 15 ft. high, bears N. 50° W.

69.25 Leave dense aspen; enter some scattering aspen.

72.00 Creek, 5 lks. wide, 3 ins. deep, pure water, runs N. 65° W.

73.75 An aspen, 8 ins. diam., on line, marked with 2 notches on each side.

78.55 Spring branch, runs N. 15° W. 1 lk. wide

78.80 Spring branch, runs N. 15° W. 2 lks. wide

79.86 The cor. of secs. 22. 23. 26 and 27.
Land mountainous.
Coal stone, 2nd rate.
No. timber, Aspen, 79.86 chs.
~~Mountainous~~ Carr
July 11, 1888. 79.86 chs.

N. 0° 1' W. bet. secs. 22 and 23.
Descend, through dense aspen.

3.00 Spring branch, course N. 75° E. 1 link wide

4.75 Creek, 3 lks. wide, 6 ins. deep, fresh water, course N. 50° W., in hollow, 20 ft. deep.
This creek is S. fork of Foxberry creek.

Continued:

Chains.	
11.12	Fence, belonging to Jonas Mattoson, John Kenney and John Barnard, bears W. 3.00 chs. and N. E.
26.25	. . . . Branch of Goosberry creek, 6 lks. wide, 1 ft. deep, course N. 45° W., in hollow, 1 ch. wide, 15 ft. deep.
40.00	Set a trachyte, 21 × 12 × 7 ins., 16 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
	From this cor.
	An aspen, 3 ins. diam., bears S. 63° W., 12 lks. dist., marked 1/4 S. 22, B. T.
	An aspen, 4 ins diam., bears N. 22° E., 14 lks. dist., marked 1/4 S. . 23, B. T.
	Enter a few scattering pine.
	July 12: At 9h 15m a.m., l.m.t., I set off 22° 0' N. on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal. Then I set the vertical arc to 51° 12', the co-latitude, and determine a true meridian, at the 1/4 sec. cor. bet. secs. 22 and 23.
50.15	Andres Larsen's fence, bears N W. and E.
50.25	A pond, pure water, 5 ft. deep, bears W. 1.00 ch., E. 2.00 chs.
	To pass the pond, I offset as follows:
	S. 88° 58' W. 2.00 chs.
	N. 0° 2' W. 6.00 chs.
	N. 88° 58' E. 2.00 chs.
56.25	to N. side of pond, on line.
58.00	Leave aspen.
65.00	Centre branch of Goosberry creek, 3 lks. wide, 1 ft. deep, good water, course N. 75° W.
	Over level ground.
69.00	North branch of Goosberry creek, 6 lks wide, 1 ft. deep, good water, course S. 75° W.

Subdivision of S. 20 ch., W. 2 ch.,

Continued.

Chains.	
	Gentle ascent.
76.00	Wagon road, bears E. and W.
80.00	Set a trachyte, 20 × 10 × 6 ins., 15 ins. in the ground, for cor. of secs. 14, 15, 22 and 23, marked 23 S. on N. E. and 2 E. on S. E. faces, with 3 notches on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	No trees within limits.
	Land, mountainous,
	Soil, loam, 1st rate,
	Timber, a few scattering pine x 40.00 chs. aspen 51.90 chs.
	~~Mountainous land 80.00 chs.~~
	S. 89°32' E., on a random line bet. secs. 14 and 23.
40.00	Set temp. ¼ sec. cor.
80.20	Intersect N. and S. line, 19 lks. S. of cor. of secs. 13. 14. 23 and 24.
	Thence I run
	N. 89°40' W., on a true line bet. secs. 14 and 23.
3.00	Gentle descent.
15.50	Spring branch, bears S., 14 lks. dist., course W.
40.10	Set a sandstone, 14 × 6 × 5 ins., 10 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, W. of cor. Pits impracticable.
	No trees within limits.
	From this cor.
	A spring branch, 2 lks wide, 2 ins. deep, course S. 60° W., bears S., 1.00 ch. dist.
47.00	Wagon road, bears N. 60° E. and S. 50° W.
55.00	Ridge, 10 ft. high, bears S. 30° W. and N. 30° E.
80.20	The cor. of secs. 14. 15. 22 and 23.
	Land, rolling,
	Soil, loam, 1st rate,
	No timber. Some sagebrush,

	July 12: At this cor. set off 21°58' N. on the decl. arc; and at 12h 5m 3 P.M. l. m. t., observe the sun on the meridian the resulting lat. is 38°49' which is about 0.22° greater than the proper lat.
	N. 0°1' W. bet. sec. 14 and 15.
	Gentle ascent, through scattering aspen and oakbrush.
4.00	Dry wash, 30 lks wide, 4 ft. deep, course S. 30° W.
33.00	Spur, 20 ft. high, bears E. and W.
38.00	Gulch, 20 ft. deep, course S. 60° W.
40.00	Set a trachyte, 15 × 10 × 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.
	From this cor.
	An aspen, 4 ins. diam., bears S. 74½° W., 1.22 ch. dist., marked 1/4 S. 15, B. T.
	No more trees within limits.
	This cor. stands on a spur, 10 ft. high, bears S. 77° W. and N. 77° E.
42.50	Flat hollow, 5 ft. deep, course S. 70° W.
43.00	Enter a bunch of aspen, bears E. 2.00 chs. and W. 5.00 chs.
45.00	Leave same, on ridge, 10 ft. high, bears S. 50° W. and N. 50° E.
57.50	Gully, 5 ft. deep, course S. 45° W.
60.50	Steep ascent.
	A pond, diam. 3.00 chs. N. and S., 1.00 ch. E. and W., bears S. 79° W., impure water.
	A pond, diam. 3.00 chs. N. and S., 2.00 chs. E. and W., bears W., impure water.
	A pond, diam. 1.00 ch. N. and S., 2.00 chs. E. and W., bears N. 82½° W., impure water.
62.50	Foot of break, 25 ft. high, bears S. 75° E., 1.00 ch. N. 75° W.
63.00	Top of same
68.15	Gentle ascent on W. slope of knoll, 500 ft.

Chains.	
	above Gooseberry creek, 50 ft below top of knoll.
	Top of knoll, bears N. 69° E., 19 chs. dist.
73.50	Descend on N. slope of knoll.
78.00	Gully, 20 ft. deep, course N. 75° W.
80.00	Set a trachyte, 19 × 9 × 6 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked 23 S. on N.E. and 2 E. on S.E. faces, with 4 notches on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	A boulder, 10 × 12 ft. in diam., 12 ft. high, bears S. 66° W., 2.90 chs. dist.
	No trees within limits.
	Land, mountainous,
	Soil, loam, 1st rate,
	No timber; a few scattering aspen,
	Mountainous land 80.00 chs.
	S. 89° 40' E., on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect N. and S. line, 10 lks. S. of cor. of secs. 11-12-13 and 14.
	Thence run
	N. 89° 44' W., on a true line, bet. secs. 11 and 14.
	Gentle ascent through aspen.
18.00	Spring, bears S., 1.06 ch. dist.;
	Steep ascent.
19.00	Leave aspen; enter choke cherries.
27.50	Ridge, 400 ft. high, bears N. and S.
	A pond, 2 × 2 chs. diam., bears S. 32° W.
31.00	Enter aspen.
32.00	Leave aspen.
39.90	Set a trachyte, 14 × 8 × 7 ins., 10 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, W. of cor. Pits impracticable.
	No trees within limits.

Continued.

Chains.	
46.75	Gulch, 100 ft. deep, course N.
51.00	Enter aspen, bear N. 4.00 chs and S. 5.00 chs.
54.25	Leave aspen.
61.00	Same pond, 2 × 2 chs., bears S. 75° E.
62.00	Top of knoll, 40 ft. above line, bears S., 5.00 chs. dist.
	Gentle ascent.
70.00	Flat spur, bears N.; descend.
79.80	The cor. of secs. 10. 11. 14 and 15.
27-50 / 52-30	Land, mountainous, ~~and~~ rolling,
	Soil, loam, 1st rate,
	No timber; some bunches of small aspen and undergrowth, ~~mountainous land~~ 27.50 chs.
	July 12, 1900.
	July 13: At. 8h 15m. a.m., l.m.t. I set off 21°52' N. on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal. Then I set the vertical arc to 51°10', the co-latitude, and determine a true meridian, at the cor. of secs. 10. 11. 14 and 15.
	N. 0° 1' W. bet. secs. 10 and 11.
	Ascend.
1.00	Spring, good water, bears E, 1.00 ch. dist.
	Enter some sagebrush.
5.00	Ridge, 500 ft. high, bears S. 20° E. 5.00 chs. and N. 37° W., descend.
27.50	Enter a bunch of aspen, bears E. 50 lks., W. 1.00 ch.
28.00	Leave same; through some scattering aspen.
36.90	A boulder, 8 × 10 × 12 ft. high, on line.
38.00	Enter old corral, bears E. 50 lks. and W. 50 lks.
39.00	Leave same.
40.00	Set a trachyte, 13 × 8 × 8 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.

Chains.	
	From this cor.
	An aspen, 6 ins. diam., bears N. 33° W., 3.00 chs. dist, marked 1/4 S. 10, B. T.
	An aspen, 5 ins. diam., bears N. 64½° E., 1.41 ch. dist., marked 1/4 S. 11, B. T.
	This cor. stands 200 ft. lower than the last sec. cor.
41.00	Spring, good water, bears W., 100 ch dist.
41.80	Steep descent.
46.00	Enter aspen.
47.00	Spring branch, pure water, bears E., 50 lks. dist., runs N. 75° E.
52.50	Gulch, 15 lks. wide, 5 ft. deep, course N. 50° E.
55.00	Spur, 10 ft. high, bears N. 80° E. and S. 80° W.
	Leave aspen.
56.50	Enter aspen.
57.50	Gully, 10 ft. deep, course N. 80° E.
80.00	Set a trachyte, 21×13×6 ins., 16 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked 23 S. on S. W. and 2 E. on N. W. faces, with 5 notches on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 5 ins. diam., bears N. 27½° E., 15 lks. dist., marked T. 23 S., R. 2 E., S. 2, B. T.
	An aspen, 5 ins. diam., bears N. 23° W., 35 lks. dist., marked T. 23 S., R. 2 E., S. 3, B. T.
	An aspen, 5 ins. diam., bears S. 40° W., 18 lks. dist., marked T. 23 S., R. 2 E., S. 10, B. T.
	An aspen, 4 ins. diam., bears S. 4½° E., 96 lks. dist., marked T. 23 S., R. 2 E., S. 11, B. T.
	Land, mountainous,
	Soil, loam 1st rate.

Chains.	
	No timber.
	Dense undergrowth of aspen, 80.00 chs. ~~mountainous land~~ 80.00 chs.
	July 13. At this cor. I set off 21° 50' N. on the decl. arc; and at 12h 5m 4 P.M. m.t., observe the sun, on the meridian. The resulting lat is 38°50' N., which is about 0.22" less than the proper lat.
	S. 89°44' E., on a random line bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
80.24	The cor. of secs. 1. 2. 11 and 12.
	Thence I run
	N. 89°44' W. on a true line bet. secs. 2 and 11.
	In dense undergrowth of aspen, oakbrush and choke cherries.
22.00	Ridge, 100 ft. high, bears N. 60° E. and S. 60° W.
28.00	Gully, 50 ft. deep, course N. 60° E.
35.00	Ridge, 50 ft high, bears N. 60° E. and S. 60° W.
38:10	Spring , bears N., 1.00 ch. dist. do NE
40.12	Set a trachyte, 14 × 7 × 7 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on north face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 5 ins. diam., bears N. 23° W., 17 lks. dist., marked 1/4 S. 2, B.T.
	An aspen, 8 ins. diam., bears S. 43° E., 10 lks. dist., marked 1/4 S. 11, B.T.
77.30	Gully, 10 ft. deep, course N.
80.24	The cor. of secs. 2. 3. 10 and 11.
	Land, mountainous,
	Soil, loam, 1st rate.
	No timber, dense undergrowth of aspen, oakbrush and choke cherries. 80.24 chs.
	~~Mountainous land~~ 80.24 chs.

Subdivision of T. 23 S., R. 2 E.
continued.

Chains.	
	N. 0°1' W., on a random line bet. secs. 2 and 3.
40.00	Set temp. 1/4 sec. cor.
91.00	Intersect N. bdy. of Tp., 24 lks. E. of cor. of secs. 2. 3. 34 and 35 heretofore described. Thence I run S. 0°10' E., on a true line bet. secs. 2 and 3. Over level ground, on E. slope of mountain; through oakbrush.
30.00	Spur, 100 ft. high., bears S. 40° E. and N. 40° W.
39.00	Gulch, 200 ft. deep, course S. 80° E.; a few aspen. Steep ascent.
42.50	Dense undergrowth of oakbrush and choke cherries.
51.00	Set a sandstone, 15 × 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, 1 1/2 ft. high, W. of cor. Pits impracticable. No trees within limits
65.25	Ridge, 100 ft. high, bears N.E. and S.W.
72.75	Gully, 100 ft. deep, course N.E.
80.00	Ridge, 50 ft. high, bears N.E. and S.W.
91.00	The cor. of secs. 2. 3. 10 and 11. Land, mountainous, Soil, loam, 1st rate, No timber. Oakbrush, 91.00 chs. Choke cherries, 48.50 chs. ~~Mountainous~~ July 13, 1900.
	July 14: At 8.h 00.m a.m., l. m.t., I set off 21°43' N on the vertical arc; level solar telescope and bring it into horizontal plane with large telescope. Then I set the vertical arc to 51°14', the co-latitude, and determine the true meridian, at the cor. of secs. 33 and 34, on S. bdy. of T. 23 S., R. 2 E. heretofore described. Thence I run N. 0°2' W., bet. secs. 33 and 34.

Chains.	
	Gentle descent, through scattering pine.
6.50	Leave pine, enter boulders, bear E. 2.00 chs. and W. 5.00 chs.
11.00	Leave boulders, enter pine.
18.00	Leave pine, enter aspen and boulders, bear S.E. and N.W.
39.00	Leave boulders.
40.00	Set a trachyte, 24 × 10 × 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.- 8 ins. below surface are ledges of stone. The cor., therefore, cannot be set deeper into the ground.
	From this cor.
	An aspen, 8 ins. diam., bears N. 80° W., 9 lks. dist., marked 1/4 S. 33, B.T.
	An aspen, 8 ins. diam., bears N. 87° E., 15 lks. dist., marked 1/4 S. 34, B.T.
41.00	Enter boulders, bear S.E. and N.W.
44.00	Spring on line, good water.
45.00	Leave boulders.
56.00	Steep descent.
60.00	Gentle descent.
67.50	Gate's creek, pure water, 3 lks. wide, 5 ins. deep, course N. 60° W., in hollow, 20 ft. deep.
73.00	Ledge of boulders, bears E. 2.00 chs. and W. on ridge, 20 ft. high, bears E. and W.
74.00	Leave boulders.
75.00	Gully, 10 ft. deep, course N. 60° W.
76.00	Spur, 10 ft. high, heads S.E. 1.00 ch. dist, bears N.W. 3.00 chs.
80.00	Set a trachyte, 20 × 14 × 7 ins., 15 ins. in the ground, for cor. of secs. 27. 28. 33 and 34, marked 23 S. on N.E. and 2 E. on S.E. faces, with 1 notch on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft high, W. of cor. Pits impracticable.
	From this cor.
	An aspen, 4 ins. diam., bears N. 26° E.,

Chains	
	50 lks. dist., marked T. 23 S., R. 2 E., S. 27, B. T.
	An aspen, 3 ins. diam., bears N. 73° W.,
	15 lks. dist., marked T. 23 S., R. 2 E., S. 28, B. T.
	An aspen, 4 ins. diam., bears S. 70° W.,
	24 lks. dist., marked T. 23 S., R. 2 E., S. 33, B. T.
	An aspen, 5 ins. diam., bears S. 74½° E.,
	50 lks. dist., marked T. 23 S., R. 2 E., S. 34, B. T.
	Land, mountainous;
	Soil, loam, 1st rate,
	" loam, 2nd rate
	" boulders 4th rate
	Timber, pine, 13.50 chs.
	Aspen, 62.00 chs.
	~~Mountainous land~~ - 80.00 chs -
	S. 89° 42' E., on a random line, bet. secs. 27 and 34.
32.50	W. brink of pond, fresh water.
	To pass same, I offset as follows:
	N. 0° 18' E., 100 ch.,
	S. 89° 42' E., 1.50 ch.,
	S. 0° 18' W., 1.00 ch. to
34.00	E. brink of pond.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 16 lks.
	N. of cor. of secs. 26. 27. 34 and 35.
	Thence I run
	N. 89° 35' W. on a true line bet. secs. 27 & 34
1.50	East brink of [illegible] bears N. 8.50 chs. and S. 34° E., 24.00 chs.
5.00	West brink of [illegible], bears N. 10° W. 7.20 chs. and S. 25° E. 12.00 chs.
10.00	Ascend
12.50	Old corral, bears N., 1.00 ch. dist.
12.80	Spring branch, 1½ lks. wide, 2 ins. deep, good water, course N. 45° E.
20.15	Spring branch, good water, 3 lks. wide, 2 ins. deep, course N. 30° E.
23.00	Spring branch, good water, 2 lks. wide, 2 ins. deep, course N. 5° E.
39.00	Ridge, 50 ft. high, bears N. 30° W. and S. 30° E.
40.05	Set a trachyte, 18 × 12 × 3 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone,

Continued.

Chains.	
	2 ft. base, 1½ ft. high, N. of cor. Pits impractible! No trees within limits.
45.50	E. bank of pond, "Gates reservoir", 3 ft. deep, bears N. 38° W. and S. 35° E.
46.10	Brink of pond, pure water, 5 ft. deep, bears N. 38° W., 1.15 chs., to the outlet, and South, 7.50 chs;
47.60	W. brink of pond, bears N. 8¾° E., 0.90 ch. to outlet, and South 20° West, 6.75 chs. Outlet, 6 lks. wide, 6 ins. deep, runs N. 30° W. in wash, 2.00 chs. wide, 25 ft. deep.
48.50	W. bank of pond, 5 ft. high, bears N. and S. Gentle descent.
53.50	Enter aspen. Level over rolling ground.
58.50	Enter hollow 30 ft. below reservoir, heads S., 10.00 chs. dist., drains N. 10° W.
60.00	A pond 4 ft. deep, clear water, diam. E. and W. 2.00 chs., N. and S. 1.00 ch., bears N. 10° W., 2.00 chs. dist. in hollow, 10 ft. deep, course from S. 10° E. to N. 10° W.
61.50	Leave hollow.
64.00	Spur, 25 ft. high, bears N. 2.00 chs. and S.
65.80	Gully, 1.00 ch. wide, heads S. 30° E., 10.00 chs. dist., drains N. 30° W. From here A spring, good water, bears S. 30° E. 50 lks. dist., course N. 30° W., branch 1 ft. wide A pond, diam. 3.00 chs. N. and S., 75 lks. E. and W., bears N. 10° W., 1.00 ch. dist, pure water.
69.50	Spur, 30 ft. high, bears N. and S.
72.00	Leave aspen. Enter flat hollow, 20 ft. deep, course N. 55° W.
79.75	Enter aspen.
80.10	The cor. of secs. 27. 28. 33 and 34. Land, level and rolling, Soil, loam, 1st rate,

Chains	
	No timber. Aspen, 18.75 chs. July 14: At this cor. I set off 21°41' N. on the decl. arc; and at 12h 5.m 6 P.M. l.m.t., observe the sun on the meridian. the resulting lat. is 38°47'N., which is about 0.6 more than the proper lat.
	N. 0°2' W. bet secs 27 and 28. Over level ground; on gentle W. slope. Through sunflowers.
1.60	Spring, bears. West, 75 lks. dist., in hollow, 30 lks. wide, 5 ft. deep, course N. 65° W.
14.20	Break, 100 ft. deep, bears N W. and S E.
17.20	Foot of same. Enter some scattering aspen and undergrowth.
26.00	Creek, from S. 35° W. 10 lks. wide, 5 ins deep, good water, course N. 35° E.. This creek is the S. branch of Gooseberry Creek. Ascend.
40.00	Set a trachyte, 18×9×5 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, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits. This cor. stands on E. slope of gulch, 300 ft. above creek, 100 ft. below last cor.
41.50	Spur, 300 ft. high, bears S. 75° E. 2.00 chs. and N. 75° W., 10. chs. Enter aspen.
75.60	Gulch, 400 ft. deep, course W. Leave aspen; ascend.
80.00	Set a trachyte, 23×11×8 ins., 18 ins. in the ground, for cor. of secs. 21. 22. 27 and 28, marked 23 S. on N E and 2 E. on S E. faces, with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.

continued.

Chains.	
	Sand, rolling and mountainous. Soil, loam with stones, 2nd rate. Aspen, 58.40 chs. No timber. Undergrowth, 62.80 chs. Mountainous land 65.80 chs.
	S. 89°35' E., on a random line bet. secs. 22 and 27.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect N. and S. line, 16 lks S. of cor. of secs. 22, 23, 26 and 27. Thence I run N. 89°42' W., on a true line bet. secs. 22 and 27. Through some scattering aspen and undergrowth. Over rolling ground.
5.20	Ridge, 20 ft. high, bears N. 30° W. and S. 30° E.
7.70	Creek, pure water, 3 lks wide, 4 ins. deep, course N.
10.00	Ridge, 10 ft. high, bears N. 10° W. and S. 10° E.
12.50	Spring, bears S., 50 lks. dist., in head of hollow, drains N. 10° W.
15.00	Ridge, 50 ft. high, bears N. 30° W. and S. 30° E.
19.50	Creek, pure water, 1½ lk. wide, 2 ins. deep, from Farnsworth Reservoir, runs N. 30° W., in hollow, 75 lks. wide, 10 ft. deep.
24.70	Spur, 10 ft. high, bears N. 30° W. and S. 30° E.
32.50	Creek, pure water, 1½ lk. wide, 2 ins. deep, course N. 40° W., in hollow, 3.00 chs. wide, 40 ft. deep.
40.10	Set a trachyte, 20 × 8 × 8 ins., 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, 1½ ft. high, W. of cor. Pits impracticable.

Subdivision of S. 23 S., R. 26.
continued.

Chains.	
	From this cor.
	An aspen, 4 ins. diam., bears N. 35° E., 44 lks. dist., marked 1/4 S. 22, B. T.
	An aspen, 3 ins. diam., bears S. 78½° E., 54 lks. dist., marked 1/4 S. 27, B. T.
	This cor. stands on a spur, 50 ft. high, bears N. 40° W. 5.00 chs. and S. 40° E.
45.00	Mattsson's fence cor., bears N., 4.00 chs. dist., from whence fence bears N. and W.
48.50	Gully, 50 ft. deep, course N.
56.50	Spur, 50 ft. high, bears N. 20° E., 5.00 chs., and S. 20° W.
60.00	Enter hollow, 30 ft. deep, drains N. 30° E.
62.00	Spring.
64.00	Leave hollow.
74.00	Spur, 30 ft. high, bears N. 41° W.
80.20	The cor. of secs. 21. 22. 27 and 28.
	Land, rolling,
	Soil, loam, 1st rate.
	No timber;
	Some scattering aspen and undergrowth,
	July 14, 1900.

July 16: At 8h 30m a.m., l.m.t., I set off 21° 24' N. on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal. Then I set of the vertical arc to 51° 12', the co-latitude, and determine a true meridian, at the cor. of secs. 21. 22. 27 and 28.

N. 0° 2' W., bet. secs. 21 and 22.

Descend.

4.00	Enter aspen.
7.40	Mattssons fence, bears N. 69° E. and S. 69° W.
12.00	Head of hollow, 5.00 chs wide, 10 ft. deep, course N. 10° E.
16.10	Mattssons fence, bears S. 28° E. and

	N. 28° W.
23.50	Head of spur, 100 ft. high, bears N. E.
26.00	Mattsons fence, bears, N. 5° E.
40.00	Set a trachyte, 17 × 10 × 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.
	From this cor.
	An aspen, 4 ins. diam., bears N. 23° W., 21 lks. dist., marked 1/4 S. 21, B. T.
	An aspen, 4 ins. diam., bears N. 60° E., 20 lks. dist., marked 1/4 S. 22, B. T.
	Mattsons fence, bears E., 2.85 chs. dist.
40.60	Wagon road, bears S. 85° E. and N. 85° W.
54.85	Creek, 8 lks. wide, 11 ins. deep, course N. 50° W.
57.85	Mattsons fence, bears N. 50° W. and S. 50° E.
65.00	Spur, 40 ft. high, bears N. and S.
71.00	Gully, 50 ft. deep, course S. 70° W.
	Leave aspen, enter oakbrush.
75.00	Spur, 50 ft. high, bears N. 75° E. and S. 75° W.
77.50	Wagon road, bears N. W. and S. E.
78.50	Gooseberry Creek, 10 lks wide, 2 feet deep, course West. [illegible]
80.00	Set a trachyte, 13 × 8 × 8 ins., 9 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked . . 23 S. on N. E. and 2 E. on S. E. faces, with 3 notches on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	No trees within limits.
	Land, rolling.
	Soil, loam, 1st rate.
	No timber; Aspen 67.00 chs.
	Oakbrush, 9.00 chs.
	Dense undergrowth, 80.00 chs.

Subdivision of S. 20 C, etc.
continued.

Chains	
	S. 89°42' E., on a random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
79.82	Intersect N. and S. line, 19 lks. S. of cor. of secs. 14. 15. 22 and 23.
	Thence I run.
	N. 89°50' W., on a true line bet. secs. 15 and 22.
	Gentle descent, through sagebrush and undergrowth.
2.00	Dry wash, 30 lks. wide, 4 ft. deep, course S. 30° W.
7.45	Dry wash, 6 lks. wide, 1 ft. deep, course S. 20° W.
13.32	Dry wash, 6 lks. wide, 1 ft. deep, course S.
13.80	Dry wash, 7 lks. wide, 1 ft. deep, course S.
14.45	Dry wash, 6 lks. wide, 1 ft. deep, course S.
17.90	Enter bunch of aspen, bears N. 4.50 chs. and S. 1.00 ch.
21.00	Leave same.
39.91	Set a trachyte, 15 × 11 × 4 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.
	No trees within limits.
47.00	Wagon road, bears S. 45° E. and N. 80° W.
	Enter oakbrush.
48.00	Head of dry wash, 10 lks. wide, 5 ft. deep, drains S. 75° W., in hollow, 10 ft. deep.
55.55	Wagon road, bears N. 45° W. and S. 10° E.
60.00	Enter head of flat hollow, 4 chs. wide, 5 ft. deep, drains N. 70° W.
	Leave oakbrush.
65.60	Leave hollow. Enter aspen.
73.60	Leave aspen; enter oakbrush.

continued

79.82 The cor. of secs. 15.16.21 and 22.
Land, rolling,
Soil, loam, 1st rate,
No timber.
Aspen, 11.10 chs.
Oakbrush, 19.22 chs.
Dense undergrowth, 79.82 chs.
July 16, At this cor. I set off 21° 22' N. on the decl. arc; and at 12h 5m.8 P.M. l. m.t., observe the sun on the meridian; the resulting lat. is 38° 49' N., which is about 0.'22" greater than the proper lat.

N 0°2' W. bet. secs. 15 and 16.
Ascend through oakbrush.

2.50	Leave oakbrush; enter aspen.
5.00	Dry wash, 8 lks. wide, 2 ft. deep, course W.
	Leave dense aspen, enter oakbrush and a few scattering aspen.
	Steep ascent.
5.50	Wagon road, bears E. and W.
11.00	Ridge, 100 ft. high, bears N. 50° E. and S. 50° W.
17.50	Gully, 20 ft. deep, heads N. 75° E., 2.00 chs dist., drains S. 75° W.
21.00	Spur, 100 ft. high, bears N. 75° E. and S. 75° W.
26.50	Dry wash, 12 lks. wide, 8 ft. deep, heads N. 60° E., 50 lks. dist., drains S. 60° W., in gulch, 200 ft. deep, heads N. 60° E., 20 chs. dist., drains S. 60° W., 4.00 chs., thence S. 10° W.
36.50	Break, 30 ft. high, bears E. 1.00 ch. and W. 1.00 ch.
40.00	Set a sandstone, 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

Chains.	
	No trees within limits.
56.00	Ridge, 300 ft. high, bears N. 45° E. and S. 45° W.
60.50	Gully, 5 ft. deep, course W.
78.50	Spur, 20 ft high, bears S. 60° W., 5.00 chs. and N. 60° E.
80.00	Set a trachyte, 15 × 7 × 7 ins., 10 ins. in the ground, for cor. of secs. 9. 10. 15 and 16, marked T. 23 S., on N E., and 2 E. on S E face, with 4 notches on S. and 3 on E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 4 ins. diam., bears N. 27° W., 60 lks. dist., marked T. 23 S., R. 2 E., S. 9, B. T.
	An aspen, 4 ins. diam., bears S. 78° W., 1.10 ch. dist., marked T. 23 S., R. 2 E., S. 16, B. T.
	No more trees within limits.
	Land, mountainous,
	Soil, loam, 1st rate,
	No timber.
	Aspen, 77.50 chs.
	Oakbrush, 77.50 chs.
	~~Mountainous land and~~ Dense undergrowth, 80.00 chs.
	S. 89° 50' E., on a random bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 23 lks. S. of cor. of secs. 10. 11. 14 and 15.
	Thence Run
	West, on a true line bet. secs. 10 and 15.
	Steep descent.
12.50	Gentle descent.
15.00	Gully, 10 ft. deep, course S. W.
20.00	Descend.
	George Gate's corral, bears S. 56° W.
	A pond, diam., N. and S. 3.00 chs., E. and W., 1.00 ch., bears S. 52° W.

Chains.

A pond, diam. N and S. 3.00 chs., E. and W., 2.00 chs., bears S. 66° W.
A pond, diam. N. and S. 1.00 ch., E and W., 2.00 chs., bears S. 80° W.
27.50 Enter aspen.
31.00 Leave aspen.
32.50 Spur, 20 ft. high, bears S. 15° W.
35.00 Dry wash, 8 lks. wide, 3 ft. deep, drains S. 30° W., in gulch, 20 feet. drains S. 30° W.
35.75 Enter aspen.
38.00 Spur, 25 ft. high, bears S.
40.00 Set a trachyte, 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, W. of cor. Pits impracticable.
From this cor.
An aspen, 5 ins. diam., bears N. 55° E., 62 lks. dist., marked 1/4 S. 10, B. T.
An aspen, 6 ins. diam., bears S. 64° E., 3 lks. dist., marked 1/4 S. 15, B. T.
48.00 Leave aspen.
50.00 Enter "Squaw Hollow", 250 ft. deep. drains S. 30° W.
61.00 Ridge, 500 ft. high, bears N. 45° E. and S. 57° W. Decend.
George Gates' corral, bears S. 67° E.
Same three ponds, as at 20.00 chs.
S. pond, bears S. 2¼° E.
Center pond, bears S. 8¼° W.
N. pond, bears S. 53° W, pure water.
80.00 The cor. of secs. 9. 10. 15 and 16.
Land, mountainous.
Soil, loam, 1 st. rate.
No timber.
Aspen, 15.75 chs.
~~mountainous~~ land 80.00 chs.

N. 89° 38' W., on a random line bet. secs. 9 and 16.
40.00 Set temp. 1/4 sec. cor.

Subdivision of sec. 22 ...

continued.

Chains.	
92.40	Intersect N. and S. line, 10 lks. S. of cor. of secs. 8.9.16. and 17 heretofore described. Thence I run S. 89°34' E, on a true line bet. secs. 9 and 16. Gentle ascent, through dense under=growth of oak and servaisberry bushes.
1.70	Spur, 50 ft. high, bears S.W. and N.E.
16.70	Gully, 10 ft. deep, course S.W.
52.40	Set a sandstone, 20×6×6 ins., 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, 1½ ft. high, W. of cor. Pits impracticable. No. trees within limits.
60.90	Ridge, 50 ft. high, bears N. and S. Descend.
72.20	Dry wash, 30 lks. wide, 10 ft. deep, course S. 30° W, in Long Hollow, 60 ft. deep, course S.45° W.
74.40	Spring branch; 5 lks. wide, 15 ins. deep, good water, course S. 45° W.
77.90	Spring of said branch, bears N. 6° W., 5.00 chs. dist., runs S. 70° W. in bottom of gulch, ("Long Hollow"), 60 ft. deep., course S. 70° W.
81.40	Leave gulch ("Long Hollow")
90.40	Leave oak and servaisberry bushes. Enter aspen; ascend.
91.40	Leave aspen.
92.40	The cor. of secs. 9. 10. 15. and 16. Land, mountainous, Soil, loam, 1st rate, No timber. Aspen, 1.00 ch. Undergrowth of oak and servaisberry bushes, 90.40 chs. ~~mountainous land~~ 92.40 chs. July 16, 1900.
	July 17: At 8h 00m a.m., l.m.t., I set off 21°14' N on the vertical arc, bring solar telescope into plane of

Chains.	
	large telescope and set it horizontal. Then, I set off the vertical arc to 51° 10', the co-latitude, and determine a true meridian, at the cor. of secs. 9. 10. 15 and 16.
	N. 0°2' W., bet. secs. 9 and 10.
	Level on W. slope of ridge.
4.00	Descend, through undergrowth.
12.80	Enter gulch, 50 ft. deep, course S. 45° W.
15.00	Leave same.
16.50	Enter oakbrush.
28.00	Ridge, 100 ft. high, bears S. 45° W. and N. 45° E.
	Break, 20 ft. deep, bears W. 75 lks. and E. 2.00 chs.
	Leave oakbrush
28.40	Foot of break; enter scattering pine.
29.80	Break, 40 ft. deep, bears W. 50 lks. and E. 50 lks.
30.30	Foot of same,
32.00	Break, 100 ft. deep, bears E. and W.
36.00	Foot of same.
40.00	Set a trachyte, 16 × 12 × 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.
	From this cor.
	A pine, 8 ins. diam., bears S. 40° W., 2.38 chs. dist., marked 1/4 S. 9, B.T.
	A pine, 8 ins. diam., bears N. 81° E., 1.13 chs. dist., marked 1/4 S. 10, B.T.
46.00	Gully, 50 ft. deep, course N. 60° W.
48.00	Leave pine, enter oakbrush.
51.50	Spur, 50 ft. high, bears N. 55° W. and S. 55° E.
	Steep descent.
62.00	"Hoodoo Gulch", 300 ft. deep, course N. 45° W.
73.00	Spur, 50 ft. high, bears E. and W.

Subdivision of S. 25 S., R. 2 [illegible]

continued.

Chains.	
76.40	Gully, 50 ft. deep, course W.
80.00	Set a sandstone, 20 × 10 × 5 ins., 15 ins. in the ground, for cor. of secs. 3. 4. 9 and 10, marked 23 S. on N.E. and 2 E. on S.E. faces, with 5 notches on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits. This cor. stands on a ridge, 50 ft. high, bears E. and W. Land, mountainous; Soil, loam 1st rate, Timber, some scattering pine, 19.60 chs. Oakbrush, 43.50 chs. Dense undergrowth, 76.00 chs. Mountainous land 80.00 chs.
	East on a random line bet. secs. 3 and 10.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line, 8 lks N. of cor. of secs. 2. 3. 10 and 11. Thence I run N. 89°57' W. on a true line bet. secs. 3 and 10. Steep ascent, through small aspen.
11.00	Ridge, 500 ft. high, bears S. and N. Descend.
32.00	Spring on line.
39.00	Steep descent.
40.05	Set a sandstone, 16 × 9 × 8 ins., 11 ins. in the ground, for ¼ sec. cor, marked ¼ on N. face; raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
43.00	Moderate descent.
58.90	Old woodroad, bears N. and S.
65.00	Leave small aspen, enter oakbrush.
73.50	Gully, 5 ft. deep, course S. 30° W.
80.10	The cor. of secs. 3. 4. 9 and 10.

Chains.	
	Land, mountainous,
	Soil, loam, 1st rate,
	No timber;
	Small aspen, 65.00 chs.
	Oakbrush, 15.10 chs.
	~~Moenkopi Wash 59.10 chs.~~
	July, 1. At this cor. I set off 21° 12' N. on the decl. arc; and at 12h 5.m 9 P.M. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 50' N., which is about 0'.22" less than the proper lat.
	N. 89°34' W., on a random line bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.
92.38	Intersect N. and S. line, 15 lks. S of cor. of secs. 4.5.8 and 9 heretofore described
	Thence I run
	S. 89°28' E., on a true line bet. secs. 4 and 9.
	Over rolling ground, through oakbrush.
3.78	Gully, 20 ft. deep, course N. 20° W.
7.28	Spur, 15 ft. high, bears N. 20° W. and S. 20° E.
44.38	Enter S. fork of "Hoodoo Hollow", 100 ft. deep, course N. 83° W.
	Leave oakbrush, enter some undergrowth.
	Gentle descent.
52.38	Set a sandstone, 16×10×6 ins., 11 ins. in the ground, for 1/4 secs. cor., marked 1/4 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	No trees within limits.
	This cor. stands in "Hoodoo Hollow", at junction of 2 forks, at foot of S. slope of N. fork.
55.00	Pine heads S.E.
71.88	George Browns corral, bears N. 48° W.
73.88	Gulch, 50 ft. deep, course N. 62° W.
	Gentle ascent.
92.38	The cor. of secs. 3.4.9. and 10.
	Land, rolling.

Subdivision of S. 23 G., Gl & G.

Continued.

Chains	
	Soil, loam, 1st rate
	No timber.
	Oakbrush, 44.38 chs.
	N. 0°2' W., on a random line bet. secs. 3 and 4.
40.00	Set temp. 1/4 sec. cor.
91.02	Intersect N. bdy. of Tp., 26 lks. E. of cor. of secs. 3, 4, 33 and 34. Thence I run S. 0°12' E., on a true line bet. secs. 3 and 4. Gentle descent, towards "Hoodoo Hollow", through scattering oakbrush.
18.30	Dry wash, 10 lks wide, 5 ft. deep, course S. 60° W.
28.40	Enter stony ground.
43.40	Leave stony ground. Spring branch, 11 links good water, course S. 31° W., in gulch, 100 ft. deep. George Brown's corral, bears S. 31° W.
45.50	Spur, 30 ft. high, bears N.E. and S.W.
48.40	Gully, 20 feet deep, course S. 75° W.
51.02	Set a sandstone, 13.×10×10 ins., 9 inches in the ground, for 1/4 secs. 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. No trees within limits.
53.00	Spur, 50 ft. high, bears S. 50° W. and N. 50° E.
57.00	Gully, 10 ft. deep, course S.W.
58.50	Spur, 50 ft. high, bears E. and W.
64.00	Gully, 30 ft. deep, course S. 60° W.
66.60	Spur, 50 ft. high, bears N. 60° E. and S. 60° W. Enter Hoodoo Hollow 150 ft. deep, course W.
76.00	Leave oakbrush; enter aspen. Gulch, 100 ft. deep, course S. 75° W.
82.50	Foot of break, 100 ft. high, bears N. 75° E. and S. 75° W.
83.50	Top of same. Leave aspen; enter

Subdivision of Tp. 23 S., R. 2 E.
continued

Chains.	oakbrush
91.02	The cor. of secs. 3. 4. 9. and 10.
	Land, mountainous,
	Soil, loam, 1st rate.
	" stony, 3rd rate,
	No timber.
	Some aspen, 7.50 chs.
	Oakbrush, 83.52 chs.
	Mountainous land 91.02 chs.
	July 17, 1900.

	From cor. of Secs. 27. 28. 33 and 34.
	S run
	N. 89°46' W., on a random line bet. secs. 28 and 33.
40.00	Set temp. 1/4 sec. cor.
93.10	Intersect N. and S. line 8. lks. N. of cor. to sections 28.29.32.33, recently established
	Thence S run S. 89°49' E., on a true line bet. secs. 28 and 33.
	Over rolling ground, through aspen.
3.10	Creek, pure water, 3 lks. wide, 3 ins. deep, course N.
6.20	Road, bears N. 45° W. and S. 45° E., on ridge, 20 ft. high.
6.60	Creek, pure water, 3 lks wide, 2 ins. deep, course N. 60° W., in hollow, 1.00 ch wide, 15 ft. deep.
25.40	Ridge, 20 ft. high, bears N. 45° W. and S. 45° E.
27.70	Creek, pure water, 3 lks. wide, 2 ins. deep, course N. 30° W., in hollow, 3 chs. wide, 6 ft. deep.
32.20	Ridge, 20 ft. high, bears N. 30° W., and S. 30° E.
33.70	Creek, pure water, 4 lks. wide, 6 ins. deep, course N. 30° W., in gully, 10 ft. deep, 50 lks. wide.
53.10	Set a trachyte, 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, 1 1/2 ft. high, W. of cor. Pits impracticable.

Subdivision of Tp. 23 S., R. 2 E.

Continued.

Chains.	
	From this cor.
	An aspen, 5 ins. diam., bears N. 28° E., 65 lks. dist., marked 1/4 S. 28, B. T.
	An aspen, 4 ins. diam., bears S. 48° W., 55 lks. dist., marked 1/4 S. 33. B. T.
56.00	Pond, fresh water, diam. 100 ch. N. and S., 50 lks. E. and W., bears S., 3 chs. dist.
61.60	Ridge, 10 ft. high, bears N. 30° E. and S. 30° W.
62.00	Creek, 3 lks. wide, 5 ins. deep, pure water, course N. 30° E. in gully, 10 ft. deep.
79.00	Ridge, 20 ft. high, bears N. 60° E. and S. 60° W.
82.00	Gates' Creek, pure water, 7 lks. wide, 1 ft. deep, course N. 30° E., in gully, 15 ft. deep.
93.10	The cor. of secs. 27. 28. 33 and 34.
	Land, rolling.
	No timber; aspen 93.10 chs.
	July 17, 1900.

	From cor. of secs. 21. 22. 27 and 28
	Run
	N. 89°49' W., on a random line bet secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
93.00	Intersect N. and S. line of Tp. 20 & 21, 28 & 29 heretofore described, 18 lks. S. of cor.
	Thence Run
	S. 89°42' E., on a true line bet. secs. 21 and 28.
	Ascend through scattering aspen
19.50	Steep ascent, leave scattering aspen, enter dense aspen.
22.50	Ridge, 500 ft. high, bears N. 16° E. and S. 16° W.
24.50	End of fence, bears N., 50 lks. dist., thence N. 85° E.
47.90	Corral, bears N., 2.50 chs. dist.
	Gentle descent.
	Fence of Salina Land and Grazing Company, bears S. 57° E. and N. 85° W.
49.40	Spring, bears N., 1.50 ch. dist.

Subdivision of S. 23 & S. 2
continued.

Chains.	
	Gentle descent over rolling ground; leave dense aspen; enter scattering aspen.
52.40	Spring branch, runs N. 25° E.
53.00	Set a trachyte, 18 × 7 × 7 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, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 8 ins. diam., bears N. 50° E., 10 lks. dist., marked 1/4 S. 21, B. T.
	An aspen, 6 ins. diam., bears S. 72° E., 13 lks. dist., marked 1/4 S. 28, B. T.
61.00	Ridge, 5 ft. high, bears N. and S.
66.00	Flat hollow, 5 ft. deep, course N.
70.00	Spur, 10 ft. high, bears S. and N.
71.25	Enter hollow, 10 ft. deep, course N.
71.50	Creek; 7 lks. wide, pure water, 6 ins. deep, course N.
73.50	Creek, 5 lks. wide, pure water, 3 ins. deep, course N.
85.50	Leave hollow; fence cor., bears N., 1.50 ch. dist., thence it bears N.
93.00	The cor. of secs. 21.22.27 and 28.
	Land, mountainous,
	Soil, loam, 2nd rate
	No timber; scattering aspen, 63.10 chs., dense aspen, 39.90 chs.
	~~Mountainous land - 93.00 chs.~~
	From cor. of secs. 15, 16, 21 and 22
	Run
	N. 89°42' W., on a random line bet. secs. 16 and 21.
40.00	Set temp. 1/4 sec. cor.
92.40	Intersect N. and S. line, 11 lks. S. of cor. of secs. 16, 17, 20 & 21, heretofore described
	Thence Run
	S. 89°38' E., on a true line bet. secs. 16 and 21, ascend.
12.40	E. end of head of ravine, course N. 80° W.
20.00	Ridge, 100 ft. high, bears N. 25° W. and S. 25° E.

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Subdivision of S. 20 C., N. 2 C.

Continued.

Chains.	
	Gentle descent, through dense aspen.
24.00	Leave dense aspen; enter scattering undergrowth of aspen, choke cherries and servais berries; gentle ascent.
36.40	Ridge, 500 ft. high, bears N. 50° W. and S. 50 E.
	Leave scattering undergrowth, enter dense undergrowth. Steep descent.
52.40	Set a trachyte, 15×10×6 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, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 6 ins. diam., bears N. 10° E., 34 lks. dist., marked 1/4 S. 16, B. T.
	An aspen, 5 ins. diam., bears S. 58° W., 30 lks. dist., marked 1/4 S. 21, B. T.
	This cor. stands in dense aspen and choke cherries.
63.40	Leave dense undergrowth; enter pine.
66.40	Leave pine; enter scattering aspen.
	Over rolling ground.
68.50	Russel's Corral, bears N. 50° E., 5.00 chs. dist.
	Russel's house, bears N. 60° E., 8.00 chs. dist.
70.00	Gully, 10 ft. deep, course N. 10° W.
70.80	Spur, 10 ft. high, bears S. 10° E. and N. 10° W.
75.40	Wagon road, bears N. 10° W. and S. 10° E.
76.70	Creek, from Farnsworth's reservoir, 4 lks. wide, 3 ins. deep, fresh water, course N. Junction of this creek and Goosberry Creek, bears N., 3.50 chs. dist.
78.40	Spur, 10 ft. high, bears N. and S.
	Descend.
80.50	Leave scattering aspen, enter dense oakbrush.
84.80	Goosberry Creek, 8 lks. wide, 2 ins. deep, fresh water, course N. 44° W.
89.80	Wagon road, bears N. 45° W. and S. 45° E.
	Ascend.

u. division

continued.

92.40 The cor. of secs. 15. 16. 21. and 22.
Land, mountainous.
Soil, loam, 1st rate
Timber, pine, 3.00 chs.
Dense oakbrush, 12.00 chs.
Dense undergrowth, 27.00 chs.
Scattering undergrowth, 12.40 chs.
~~Mountainous, July 17, 1900.~~

General Description.

Tp. 23 S., R. 2 E., is mountainous, with high ridges and deep gulches, bluffs and ledges of volcanic origin. It drains North and North West. It produces an abundant growth of grass, large patches of aspen and some timber. The soil is black loam, and is in many places covered with trachyte boulders; there are numerous creeks and ponds, all with good, fresh water; several of the creeks are stocked with trout. There is in places a luxuriant undergrowth of oakbrush, maple, choke cherries, sage and servaisberry brush. There is an old abandoned Spanish mine, which might indicate that there is some mineral.

Philipp D. Schoeber,
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 Philipp D. Schoeber, 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 Sub-divisions of T. 2 S. 3 R. 2 E. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

Chas. Jensen, *Chainman.*
Byron Hall, *Chainman.*
Francis Frandsen, *Moundman.*
Earl Forshee, *Moundman.*
Marinus Jensen, *Axman.*
Rudolph Bird, *Axman.*
George A. Bird, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philipp D. Schoeber, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of T. 2 S. 3 R. 2 E. of the Salt Lake Base and Meridian, Utah.

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 Utah.

Chas Jensen, *Chainman.*
Byron Hall, *Chainman.*
Francis Frandsen, *Moundman.*
Earl Forshee, *Moundman.*
Marinus Jensen, *Axman.*
Rudolph Bird, *Axman.*
George A. Bird, *Flagman.*

Subscribed and sworn to before me this 17 day of July, 1900, ~~189~~

SEAL

Philipp D. Schoeber
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philipp D. Schoeber, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for the District of Utah, bearing date of 11th day of May 1900 ~~189~~, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for the District of Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivisions of Town 23, South Range 2 East

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

United States Deputy Surv

Subscribed by said Philipp D. Schoeber, and sworn to before me this day of 189

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah March 24, 16

The foregoing field notes of the survey of the subdivisional lines of Township 23 South Range 2 East of the Salt Lake Base & Meridian Utah

executed by Philipp D. Schoeber under his contract No. 239, dated May 11 1900, 189, having 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 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-336

FILED
JAN 25 1904

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 23 South Range 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Philipp D. Schaber, United States Deputy Surveyor,

Under his Contract No. 239, dated May 11th 1900, 189

Survey commenced June 9th 1900, 189

Survey completed June 9th 1900, 189

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high 5-75-90
low 14-70

NAMES AND DUTIES OF ASSISTANTS.

Chas Jensen - Chainman.
Byron Hall - Chainman.
Frands Frandsen - Moundman.
Carl Forshee - Moundman.
Marinus Jensen - Axman.
Rudolph Bird - Axman.
George A Bird - Flagman.

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BOOK A-336

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H.70

PRELIMINARY OATHS OF ASSISTANTS.

We, Chas Jensen and Byron Hall do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the re su of the subdivisions of Ts 22 & 23 S, R 2 E of the Salt Lake Ba & Meridian, Utah

Chas Jensen, Chain.

Byron Hall, Chain.

Subscribed and sworn to before me this 9th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeber
U.S. Deputy Surveyor

We, Frands Frandsen and Carl Forshee do solemnly swear that we will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given us, to the best of our skill and ability, in the re surve the subdivisions of Ts 22 & 23 S, R 2 E of the Salt Lake Ba & Meridian, Utah

Frans Frandsen, Mound.

Carl Forshee, Mound.

Subscribed and sworn to before me this 9th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeber
U.S. Deputy Surve

We, Marinus Jensen and Rudolph Bird do solemnly swear that we will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given us, to the best of our skill and ability, in the re ve the subdivision of Ts 22 & 23 S, R 2 E of the Salt Lake Base & Meridian, Utah

Marinus Jesen, Ax

Rudolph Bird, A.

Subscribed and sworn to before me this 9th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeb
U.S. Deputy Surve

I, George A Bird, do solemnly swear that I will well and i perform the duties of flagman according to instructions given me, to the best of my skill and ability, in re survey of the subdivisions of Ts 22 & 23 S, R 2 E of the Salt Lak Base & Meridian, Utah

George A Bird, Flag

Subscribed and sworn to before me this 9th day of June, ~~189~~ 1900

SEAL

Philipp D. Schroeb
U.S. Deputy Surveyo

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esurvey / ubdivisions

Chains	
	June 9, 1900: At 9h 00m a.m., l.m.t. I set off 22°57' N. on the vertical arc, bring solar telescope into plane of large telescope and set it horizontal.
	Then I set off the vertical arc to 51°14', the co-latitude, and determine a true meridian, at the cor. of secs. 32 and 33, on S. bdy. of T. 23 S., R. 2 E.
	North, in secs. 32 and 33.
	Over level ground, on gentle W. slope; through sagebrush and some scattering willows and aspen.
10.00	W. end of pond, fresh water, 4 ft. deep, bears E. 2.50 chs. and N. 60 lks.
12.00	Spring, good water, bears E., 3.75 chs. dist.
14.70	Foot of ridge. Ascend.
20.30	Top of same, 75 ft. high, bears S. 80° E. and S. 85° W.
25.75	Gulch, 75 ft. deep, course W.
37.82	Ridge, 50 ft. high, bears S. 70° E. and S. 85° W.
40.00	No trace of old cor.
	Set a sandstone, 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.
	From this cor.
	An aspen, 4 ins. diam., bears S. 32° W., 25 lks. dist., marked 1/4 S. 32, B. T.
	An aspen, 6 ins. diam., bears S. 72° E., 15 lks. dist., marked 1/4 S. 33, B. T.
	This cor. stands on N. slope of ridge.
55.50	Steep descent.
60.00	Gentle descent.
62.50	Spring, bears E., 2.65 chs. dist.
	Leave aspen, willows and sagebrush.
67.00	Enter bare flat, with sunflowers, bears E. 10.50 chs. and W. 12.00 chs.
71.00	Leave same; enter aspen.
80.00	No trace of old cor.
65.30	
4.70	

Set a trachyte, 16.×8×7 ins., 11 ins. in the ground, for cor. of secs. 28.29.32 and 33., marked 23 S. on N.E. and 2 E. on S.E. faces; with 1 notch on S. and 4 notches on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. on cor. Pits impracticable.

From this cor.

An aspen, 5 ins. diam., bears S. 46° W., 17 lks. dist., marked T. 23 S., R. 2 S., S. 32, B. T.

An aspen, 3 ins. diam., bears S. 3° E., 19 lks. dist., marked T. 23 S., R. 2 E., S. 33, B. T.

No more trees within limits.

Land, mountainous

Soil, loam, 1st rate

No timber;

Some scattering aspen, 71.50 chs.

Willows, 67.00 chs.

Sage brush, 67.00 chs.

Mountainous land 65.30 chs.

North 1st x secs. 28 and 29.,

Through scattering aspen and willows.

0.15 Wagon road, bears S. 70° E and N. 65° W.

7.00 Ridge, 40 ft. high, bears S. 60° E. and N. 45° W.

10.10 Gully, 10 ft. deep, course N. 45° W.

12.60 Spur, 10 ft. high, bears N. 60° W., and S. 60° E.

Steep descent.

18.20 Enter ravine, 150 ft. deep, course N. 80° W.

20.70 Gate's Creek, fresh water, 10 lks. wide, 1 ft. deep, runs N. 58° W.

31.50 Dry wash, 18 lks. wide, 8 ft. deep, drains N. 80° W.

Leave ravine; steep ascent.

Leave scattering aspen and willows.

Continued

Chains.	
	Enter dense aspen and choke cherries.
39.70	A boulder, 3 × 4 ft. diam., 3 ft. high, on line.
40.00	No trace of old cor.
	Set a trachyte, 20 × 8 × 7 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, 1½ ft. high, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 3 ins. diam., bears N. 38° E., 20 lks. dist., marked 1/4 S. 28, B.T.
	An aspen, 4 ins. diam., bears N. 53° W., 14 lks. dist., marked 1/4 S. 29, B.T.
	This cor. stands on a ridge, 100 ft. high, bears E. and W.,
	Steep descent.
46.50	Leave aspen and choke cherries.
	Enter bare ground, bears E., 4.00 chs. and W. 2.00
51.40	Leave bare ground, enter aspen.
53.00	Foot of steep descent; moderate descent.
55.50	Leave aspen, enter bare ground; bears E., 20.00 chs., and W. 2.00 chs.
58.00	Leave bare ground, enter aspen and oakbrush.
67.00	Spring, good water, bears E., 50 lks. dist.
	Sheep corral, bears W., 3.00 chs. dist.
70.00	Gully, 3.00 chs. wide, 25 ft. deep, course W. Leave oakbrush.
77.00	Spur, 25 ft. high, bears E. and W.
80.00	No trace of old cor.
	Set a trachyte, 17 × 9 × 7 ins., 12 ins. in the ground, for cor. of secs. 20.21.28 and 29., marked 23 S. on N.E., and 2E. on S.E. faces, with 2 notches on S., and 4 on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	From this cor.
	An aspen, 4 ins. diam., bears N. 45° W., 11 lks. dist., marked T. 23 S., R. 2 E.

Chains.	
	S. 20, B. T.
	An aspen, 3 ins. diam., bears N. 28½° E., 8 lks. dist., marked T. 23 S., R. 2 E., S. 21, B. T.
	An aspen, 3 ins. diam., bears S. 58° E., 14 lks. dist., marked T. 23 S., R. 2 E., S. 28, B. T.
	An aspen, 3 ins. diam., bears S. 56° W., 17 lks. dist., marked T. 23 S., R. 2 E., S. 29, B. T.
	This cor. stands at the W. end of a bunch of aspen; bears N. 1.00 ch., and S. 1.00 ch, and E. 1.00 ch.
	Land, mountainous.
	Soil, loam, 1st rate.
	No timber.
	Scattering aspen, 31.70 chs.
	" willows, 31.70 " .
	Dense aspen, 30.90 " .
	Choke cherries, 14.80 " .
	Oak brush, 12.00 " .
	~~Mountainous land 80.00 chs.~~
	North . bet. secs. 20 and 21.
	Ascend through a bunch of oakbrush and aspen.
3.50	Ridge, 200 ft. high, bears S. 65° E. and N. 80° W.
	Steep descent over break, 100 ft. deep, bears N. 75° W. and S. 75° E.
8.50	Foot of break.
18.25	Enter bunch of pine, bears E. 1.50 ch. and W.
19.75	Leave same; enter scattering aspen.
27.00	Spring, bears E., 50 lks. dist.
40.00	No trace of old cor.
	Set a trachyte, 18 × 14 × 9 ins., 12 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.
	From this cor.
	An aspen, 5 ins. diam., bears N. 73° W.,

Chains 75 lks. dist., marked 1/4 S. 20, B.T.
An aspen, 5 ins. diam., bears S. 33 1/2° E.,
70 lks. dist., marked 1/4 S. 21, B.T.
This cor. is 350 ft. below last ridge,
and 30 ft. below last sec. cor.
Gentle descent.

49.00 Drag Road Hollow, 50 ft. deep, course
N. 75° W.
Leave aspen; enter oakbrush.
Gentle ascent.

75.00 Steep ascent.

80.00 No trace of old cor.
Set a sandstone, 25 × 9 × 6 ins., 19 ins. in
the ground, for cor. of secs. 16 × 17 × 20
and 21., marked 23 S. on N.E. and
2 E. on S.E. faces, with 3 notches on S.
and 4 notches on E. edges; and raise
a mound of stone, 2 ft. base, 1 1/2 ft. high,
W. of cor. Pits impracticable.
No trees within limits.
This cor. stands 50 ft. above Drag
Road Hollow, on S. slope of
ridge, 15 ft. below top of same.
Land, mountainous,
Soil, loam, 2nd rate
Timber, pine, 1.50 ch.
Oakbrush, 34.50 chs.
Aspen, 32.75 chs.
~~Mountainous land~~ 80.00 chs.

June 9, 1900: At cor. of secs. 16. 17.
20 and 21, I set off 22° 57' N. on
the decl. arc.; and at 11h 59m ~~A.M.~~
l. m. t., observe the sun on the
meridian; the resulting lat. is
38° 49' N. which is about
0.22' more than the proper lat.
Thence I run
North bet. secs. 16 and 17.
Ascend through oakbrush and dense undergrowth.

1.50 Ridge, 100 ft. high, bears E. and W.
Gentle descent.

Resurvey of the Subdivisions of T. 23 S., R. 2 E.

Continued.

Chains	
8.50	Leave oakbrush, enter aspen.
15.00	Gulch, "Choke Cherry Hollow", 50 ft. deep, course, N. 50° W.
	Leave aspen; enter scattering oakbrush.
35.00	Ridge, 200 ft. high, bears N. 45° W. and S. 45° E.
40.00	No trace of old corner.
	Set a trachyte, 17 × 11 × 4 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.
	No trees within limits.
	This cor. stands 200 ft. below last sec. cor.
41.50	Enter cove, 5 ft. deep, bears W. 1.00 ch. and E. 1.00 ch.
44.50	Leave same.
45.00	Steep descent; leave scattering oakbrush.
	Enter dense oakbrush.
71.00	Goosberry Creek, fresh water, 8 lks. wide, 2 ft. deep, course N. 70° W. in gulch, 400 ft. deep.
75.00	Wagon road, bears N. 70° W. and S. 70° E.
80.00	No trace of old cor.
	Set a sandstone, 21 × 10 × 5 ins., 16 ins. in the ground, for cor. of secs. 8. 9. 16 and 17, marked 23 S. on N. E. and 2 E. on S. E. faces, with 4 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.
	No trees within limits.
	Land, mountainous.
	Soil, loam, 2nd rate.
	No Timber.
	Oakbrush, 73.50 chs.
	Aspen, 6.50
	~~Mountainous land and~~ Dense undergrowth, 80.00 chs.

Chains.	
	North. bet. secs. 8 and 9.
	Ascend in oakbrush.
5.00	Dry wash, 8 lks. wide, 4 ft. deep, course S.45° W., in gully, 50 ft. deep, drains S. 45° W.
17.50	Ridge, 100 ft. high, bears E. and W.
19.50	Enter hollow, 15 ft. deep, course W.
23.00	Leave same. Gentle ascent, enter scattering pine.
	Leave oakbrush.
31.00	Ridge, 15 ft. high, bears E. and W.
36.00	Hollow, 10 ft. deep, course W.
40.00	No trace of old cor.
	Set a sandstone, 13 × 8 × 5 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.
	From this cor.
	A pine, 8 ins. diam., bears N. 32° W., 42 lks. dist., marked, 1/4 S. 8, B.T.
	A pine, 5 ins. diam., bears S. 43° E., 33 lks. dist., marked, 1/4 S. 9, B.T.
	This cor. stands 200 ft. above last sec. cor.
41.20	Spur, 100 ft. high, bears N. 55° E. and S. 55° W.; Leave pine.
46.00	Gully, 15 ft. deep, course S. 50° W.
55.50	Ridge, 500 ft. high, bears S. 70° E. and N. 70° W.
	Steep descent.
80.00	No trace of old cor.
	Set a sandstone, 23 × 13 × 5 ins., 18 ins. in the ground, for cor. of secs. 4.5.8 and 9, marked 23. S. on N.E. and 2 E. on S.E. faces, 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.
	No trees within limits.
	Land, mountainous.
	Soil, loam, 1st rate.
	Timber, a few scattering pine, 18.20 chs.
	Oakbrush, 23.00 chs.
	Mountainous land 80.00 chs.

Chains.	
	No. 16 W., on a random line bet. secs. 4 and 5.
40.00	No trace of old cor.
	Set temp. 1/4 sec. cor.
90.60	The old cor., which was a limestone, has been destroyed. There is some remains of it, also of a mound.
	Said cor. is 57 lks. E. of point of intersection. I re-establish cor. by setting a sandstone, 17 × 8 × 5 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32 and 33, marked 23 S. on S. W. and 2 E. on N. W. faces, with 4 notches on E. and 2 notches on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this cor.
	A cedar, 12 ins. diam., bears N. 44° W., 10 lks. dist., marked T. 22 S., R 2 E., S. 32, B. T.
	A cedar, 13 ins. diam., bears N. 43½° E. 59 lks. dist., marked T. 22 S., R. 2 E. S. 33, B. T.
	No more trees within limits.
	Thence I run
	S. 0° 06' W. on a true line bet. secs. 4 and 5.
0.50	Porcupine Hollow 50 ft deep course W.
	Over rocky ground, through scattering pine. Ascend
21.25	Spur, 30 ft. high, bears E. and W.
22.75	Gully, 25 lks. wide, 5 ft. deep, course S. 45° W.
27.25	Spur, 20 ft. high, bears N. 80° E. and S. 80° W.
36.75	Gully, 20 ft. deep, course S. 41° W.
37.75	Ridge, 100 ft. high, bears N. E. and S. W. Steep descent.
48.00	Dry wash, 1.00 ch. wide, 15 ft. deep, course S. 80° W.
	Leave pine; enter oakbrush.
50.60	Set a sandstone 20 × 12 × 6 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, 1½ ft. high, W. of cor. Pits impracticable. No trees within limits.
63.10	Ridge, 300 ft. high, bears N. 75° W. Descend into Hoodoo Hollow.

Continued

Chains	
	and S. 75° E.
80.75	Wagon road, bears N. 60° W. and S. 60° E.
80.95	Dry wash, 7 lks. wide, 8 ft. deep, course W. in Hoodoo Hollow, 300 ft. deep.
83.00	Leave Hoodoo Hollow.
	Steep ascent.
90.60	The cor. of secs. 4.5.8 and 9.
	Land, mountainous,
	Soil, loam, 1st rate,
	Timber, pine, 48.00 chs.
	Oakbrush, 42.60 chs.
	Mountainous land 90-60 chs.

June 9, 1900.

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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 Philipp D. Schoeber, 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 sub-divisions of T. 2 & 3 S. R. 2 E. of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Chas. Jensen, *Chainman.*
Byron Hall, *Chainman.*
Francis Frandsen, *Moundman.*
Carl Forshee, *Moundman.*
Marinus Jensen, *Axman.*
Rudolph Bird, *Axman.*
George A. Bird, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Philipp D. Schoeber, United States Deputy Surveyor, in surveying all those parts or portions of the sub-divisions of T. 2 & 3 S. R. 2 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

Chas Jensen, *Chainman.*
Byron Hall, *Chainman.*
Francis Frandsen, *Moundman.*
Carl Forshee, *Moundman.*
Marinus Jesen, *Axman.*
Rudolph Bird, *Axman.*
George A. Bird, *Flagman.*

Subscribed and sworn to before me this 9 day of June, ~~189~~ 1900

Philipp D. Schoeber
U. S. Deputy Surveyor.

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Philipp D. Schoeber, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for the district of Utah, bearing date of 11th day of May 1900, I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for the district of Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the sub-divisions of Township 2 3 South Range 2 East

of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solen 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 district of Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such survey; and should any fraud be detected, I will su the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surve

Subscribed by said Philipp D. Schoeber and sworn to before me this day of 1900.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 24 1900

The foregoing field notes of the survey of the sub-divisional lines of Township 2 3 South Range 2 East of the Salt Lake Base & Meridian Utah

executed by Philipp D. Schoeber under his contract No. 239, dated May 11, 1900, having be critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hill

United States Surveyor Gene

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

United States Surveyor Gene

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4—070.

BOOK A-336
" V "

FILED
AUG 30 1906

FIELD NOTES

RESURVEY
OF THE ~~SURVEY OF~~ THE

FOURTH STANDARD PARALLEL SOUTH,

through Range No. 1 West,

of the Salt Lake Base and *Meridian,*

in the State of Utah

AS SURVEYED BY

Percy B. Reint and Earl V. Woolley, *United States Deputy Surveyors*

Under his Contract No. 291, *dated* June 3, *190* 5

Survey commenced May 1, *190* 6

Survey completed May 7, *190* 6

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BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A.Stumm,	Chainman.
Melvin D.Heist,	"
Claude Gresham,	"
Robert R.Raycraft,	"
Homer A.Shelley,	Moundman
Horace L.Allred	Axman
Will L. White,	Flagman

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Volume

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R0336

BOOK A-336

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Meanders Page

G—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Walter A. Stamm, Melvin L. Height, and Claude Graham and Robert R. Graft do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we perform measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Fourth Standard Parallel South, through Ranges 1 and 2 West of the Salt Lake Base and Meridian, Utah.

Gilbert R. West — Walter A. Stamm, Chainman
Claude Graham — Robert R. Graft, Chainman

Subscribed and sworn to before me this 1st day of May, 1906.

SEAL

Harry M. Flint
U.S. Deputy Surveyor.

We, I, Homer A. Shelley and do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of the Fourth Standard Parallel South, through Ranges 1 and 2 West of the Salt Lake Base and Meridian, Utah.

Homer A. Shelley, Mound
, Mound

Subscribed and sworn to before me this 1st day of May, 1906.

SEAL

Harry M. Flint
U.S. Deputy Surveyor.

We, I, Horace L. Allred and do solemnly swear that I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of the Fourth Standard Parallel South, through Ranges 1 and 2 West of the Salt Lake Base and Meridian, Utah.

Horace L. Allred, A
, A

Subscribed and sworn to before me this 1st day of May, 1906.

SEAL

Harry M. Flint
U.S. Deputy Surveyor.

I, Will L. White, do solemnly swear that I will well and faithfully perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Fourth Standard Parallel South, through Ranges 1 and 2 West of the Salt Lake Base and Meridian, Utah.

Will L. White, Fla

Subscribed and sworn to before me this 1st day of May, 1906.

SEAL

Harry M. Flint
U.S. Deputy Surveyor.

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RESURVEY OF FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

Survey commenced, May 1, 1906, and executed with the inst ment 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. 33 and 34, which is a pine post 2 ins. sq., with marks nearly obliterated, (this cor. was v r ified by running east along the Fourth Standard Par. S. along the S. bdy. of secs. 34 and 35).

I reestablish this cor. at same point as follows:

Set a limestone 20x10x4 ins., 15 ins. in the ground, for reestablished stan. cor. to secs. 33 and 34, marked S C on N. and 3 grooves on E. and W. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Pits impracticable.

Approximate latitude 39°02'N., longitude 111°57'W.

At 3h. 57m., p.m., l.m.t., I set off 39°02'N. on lat. arc, 15° 02'N. on decl. arc, and 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.

May 1, 1906.

May 2: At 4h. 51m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instruct ions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 6 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 0.4 ins. west of the mark determined by the solar.

CHAINS	
	At 6h.57m., a.m., l.m.t., I set off 39°02'N. on lat. arc, 15°14'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 0.4 ins. west of the meridian established by the Polaris observation.
	The solar apparatus, by p.m and a.m. observations, defines positions for meridians, respectively about 0'21" east and west of the meridian established by the Polaris observation ; therefore, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h.30m., a.m., is N.16°45'W.; the angle thus determined gives the mag. decl. 16°45'E.
	From the stan. cor., above described, I run west on a blank line along the south bdy. of secs. 33; at 40.00 chs. no trace can be found of the stan. ¼ sec. cor. and at 80.00 chs. intersect the stan cor. of secs. 32 and 33, which is a post greatly decayed and the marks nearly obliterated. I destroy all traces of the old cor. and reestablish it at the same point as follows:
	Set a limestone, 24x8x7 ins., 18 ins. in the ground, for reestablished stan. cor. to secs. 32 and 33, marked S C on N. and 4 grooves on E. and 2 grooves on W. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
	Thence I run
	East, resurveying along the S. bdy. of sec. 33.
	Ascend over rocky land, through dense artemisia.
5.25	Ridge, bears N.W. and S.E.
	Descend over rolling land.
14.00	Wash, 50 ft. wide, 10 ft. deep, course S.E.
	Difference between measurement 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

RESURVEY OF FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS

40.00 Set a limestone, 20x8x7 ins., 15 ins. in the ground, for reestablished stan. $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor Pits impracticable.

40.50 Wash, 30 ft. wide, 10 ft. deep, course S.E.

65.00 Wash, 25 ft. wide, 10 ft. deep, course S.E.

Difference between measurement by two sets of chainmen to the stan cor. of secs. 33 and 34 is 2 lks.; position of cor.

By 1st. set 80.01 chs.

By 2nd. set 79.99 chs., the mean of which is

80.00 The reestablished stan. cor. to secs. 33 and 34, heretofore described.

Land, rolling.

Soil, rocky, 3rd. rate.

No timber; undergrowth shad scale and sage.

Dense undergrowth on 80.00 chs.

For General Description, see Subdivisions of T.20 S., R.1 W.

For table of latitude and departures, see N. bdy. of T.20 S.R.1 W.

Harvey M. Tyler
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

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

.....

ving the respective capacities in which they acted:

For final affidavits see book Z^3 Tp.20 S., R. 1 W. ....., *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

se 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

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 .....

final affidavits see book "Z^3" Tp.20 S., R. 1 W. ..... *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 Surveyo
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date o
..... day of ....., 190 , I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Su
General for ....., the Manual of Surveying Instructions, and the laws o
United States, surveyed all those parts or portions of .....

For final affidavit see book "Z 3 " Tp.20 S., R. 1 W.

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

.....
United States Deputy Surve

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

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 19

The foregoing field notes of the survey of the Fourth Standard Parallel South
through Range 1 West of the Salt Lake Base and Meridian, Utah.

executed by Harvey D.Heist and Earl V.Woolley
under his contract No. 291, dated June 3, 190 5, 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 Gene

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

.....
United States Surveyor Ge

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4—679.

M.M.L.
H.J.B.

FILED
AUG 30 1906

" W "
BOOK A-336

FIELD NOTES

OF THE SURVEY OF THE

FOURTH STANDARD SOUTH,

through

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,*s

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *1905*

Survey commenced May 2, *1906*

Survey completed May 2, *1906*

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Rec'd. 1 Vol. 40 v
Ch. 36.00

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Melvin D. Heist,	Chainman
Walter A. Stumm,	"
Claude Cresham,	"
Robert R. Raycraft,	"
Homer A. Shelley,	Moundman
Horace L. Allred,	Axman
Will L. White	Flagman

BOOK A-336

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PRELIMINARY OATHS OF ASSISTANTS.

We, Melvin D. Heist, Walter A. Stumm, Claude Gresham and Robert R. Rayscraft do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surv the Fourth Standard Parallel South, through Range 1 West of the Sal Lake Base and Meridian, Utah.

Melvin D. Heist, Walter A. Stumm, Chainm
Claude Gresham, Robert R. Rayscraft, Chain

Subscribed and sworn to before me this 2d day of May, 190 6

SEAL

Harvey L. Hirst
U.S.Deputy Surveyor.

~~We,~~ I, Homer A.Shelley ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establi of corners, according to the instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the surve the Fourth Standard Parallel South, through Range 1 West of the Sal Lake Base and Meridian, Utah

Homer A. Shelley, Mound
, Mound

Subscribed and sworn to before me this 2d day of May, 190 6

SEAL

Harvey L. Hirst
U.S.Deputy Surveyor.

~~We,~~ I, Horace L.Allred ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surve the Fourth Standard Parallel South, through Range 1 West of the Sal Lake Base and Meridian, Utah.

Horace L. Allred, Axm
, Axm

Subscribed and sworn to before me this 2d day of May, 190 6

SEAL

Harvey L. Hirst
U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah.

Will L. White, Flag

Subscribed and sworn to before me this 2d day of May, 190 6

SEAL

Harvey L. Hirst
U.S.Deputy Surveyor.

6-11

FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS

Survey commenced, May 2, 1906 and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment by observations made May 1 and 2, 1906, and recorded in book "V", of this survey.

I begin at the reestablished stan cor. of secs. 32 and 33, heretofore described and run

West, on S. bdy. of sec. 32.

.00 Descend over rocky land, through dense artemisia.

.15 Hollow, 75 ft. deep, course S.E. Ascend.

4.30 Spur, projects S.E. Descend.

6.50 Hollow, 50 ft. deep, course S.E. Ascend.

17.00 Spur, projects S.E. Descend.

20.25 Hollow, 100 ft. deep, course S.E.

Ascend.

Difference between measurement 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 a limestone, 18x12x4 ins., 12 ins. in the ground, for stan. $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

47.50 Ridge, bears N.W. and S.E.

Abrupt descent.

51.50 Hollow, 100 ft. deep, course S.E.

Ascend.

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 a limestone, 28x15x6 ins., 21 ins. in the ground, for stan. cor. of secs. 31 and 32, marked S C on N., with 5 grooves on E. and 1 groove on W. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS	
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Mountainous land on 80.00 chs.
	May 2: At this cor I set off 15°17'N. on decl. arc, and at 11h.57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°02'N.
	West, on S. bdy. of sec. 31.
	Ascend over rocky land, through dense artemisia.
11.90	Ridge, bears N.E. and S.W.
	Descend.
16.00	Head of hollow, course N.E.
	Ascend.
18.00	Begin abrupt ascent, bears N. and S.
	Enter scattering cedar and pinon timber.
37.40	Rocky spur, projects S.E.
	Descend.
	Difference between measurement 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 sandstone, 24x10x5 ins., 18 ins. in the ground, for stan. ¼ sec. cor., marked S C ¼ on N. face, from which
	A pinon, 8 ins. diam., bears N.78°W., 73 lks. dist., marked S C ¼ S B T.
	A pinon, 10 ins. diam., bears N.53°E., 108 lks. dist., marked S C ¼ S B T.
48.00	Hollow, 150 ft. deep, course S.E.
	Abrupt ascent.
73.00	Spur, projects S.
	Descend.

FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS

Difference between measurement by two sets of chainmen to the intersection with the E.bdy.of T.21 S.,R.2 W. is 12 lks.,position of intersection

By 1st.set,76.46 chs.,

By 2nd.set,76.34 chs.,the mean of which is

76.40 Intersect E.bdy.of T.21 S.,R.2 W.,36.00 chs.South,of the closing cor.for Tps.21 S.,Rs.1 and 2 W.,which is a shale rock,16x9x3 ins.above ground,marked and witnessed as described by the surveyor general.

Set a limestone,18x10x5 ins.,12 ins.in the ground,for standard closing cor.for Tps.20 and 21 S.,R.1 W.,marked

S C 20 S on N.,

C C 1 W on E.,and

21 S on S.face,with 6 grooves on N.S.and E.faces,and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

Pits impracticable.

I destroy all marks on the closing cor.for Tp.21 S.,Rs. 1 and 2 W.that pertain to R.1 W.,leaving it marked as the N.E.cor.of T.21 S.,R.2 W.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,scattering cedar and pinon; undergrowth,sage.

Mountainous land on 76.40 chs.

CONNECTION LINE.

From the standard closing cor.for Tps.20 and 21 S.,R.1 W. heretofore described,I run

North,along the E.bdy.of T.21 S.,R.2 W. and sec.1.

Ascend abruptly over rocky land.

14.50 Rocky ridge,bears E.and W.

Abrupt descent.

32.00 Hollow,300 ft.deep,course S.E.

Abrupt ascent.

CONNECTION LINE, ALONG E. BDY. OF T. 21 S., R. 2 W. and SEC. 1.

CHAINS	
36.00	The N.E. cor. of T. 21 S., R. 2 W., heretofore described.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 36.00 chs.
	May 2, 1906.

For General Description see, subdivisions of T. 20 S., R. 1 W.

For table of latitudes and departures, see N. Bdy. of T. 20 S. R. 1 W.

Harvey D. Hirst

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 Harvey D. Heist, United States Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the survey of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah,
owing the respective capacities in which they acted:

Melvin D. Heist, Walter A. Sturm, *Chainmen.*
Claude Gresham, Robert R. Raycraft, *Chainmen.*
, *Moundman.*
Homer A. Shelley, *Moundman.*
, *Axman.*
Horace L. Allred, *Axman.*
Will L. White, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in surveying all ose parts or portions of the the Fourth Standard Parallel South, through Range 1 est of the Salt Lake ase 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 as 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 Utah.

Melvin D. Heist, Walter A. Sturm, *Chainmen.*
Claude Gresham, Robert R. Raycraft, *Chainmen.*
Homer A. Shelley, *Moundman.*
, *Moundman.*
Horace L. Allred, *Axman.*
, *Axman.*
Will L. White, *Flagman.*

ubscribed and sworn to before me this 2d day of May, 1906

SEAL

Harvey D. Heist
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of 3d day of June, 190 6, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surv General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the Fourth Standard Parallel S through Range 1 West

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

Harvey D. Heis
United States Deputy Surve

Subscribed by said Harvey D. Heist, and sworn to before me this 17th day of October, 190 6

Thomas Bu
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1

The foregoing field notes of the survey of the Fourth Standard Parallel South through Range 1 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Wolley under ~~his~~ their contract No. 281, dated June 3, 190 5, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Thomas Bu
United States Surve Ge

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

United States Surveyor Ge

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BOOK A-336
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AUG 30 1906

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY~~ OF THE

FOURTH STANDARD PARALLEL SOUTH

through

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,*s

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *190*5

Retracement
~~Survey~~ *commenced* May 3, *190*6

Retracement
~~Survey~~ *completed* May 3, *190*6

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NAMES AND DUTIES OF ASSISTANTS.

Walter A.Stumm, Chainman,

Melvin D.Heist, "

"

"

Homer A.Shelley, Moundman

Horace L.Allred Axman

Will L. White Flagman

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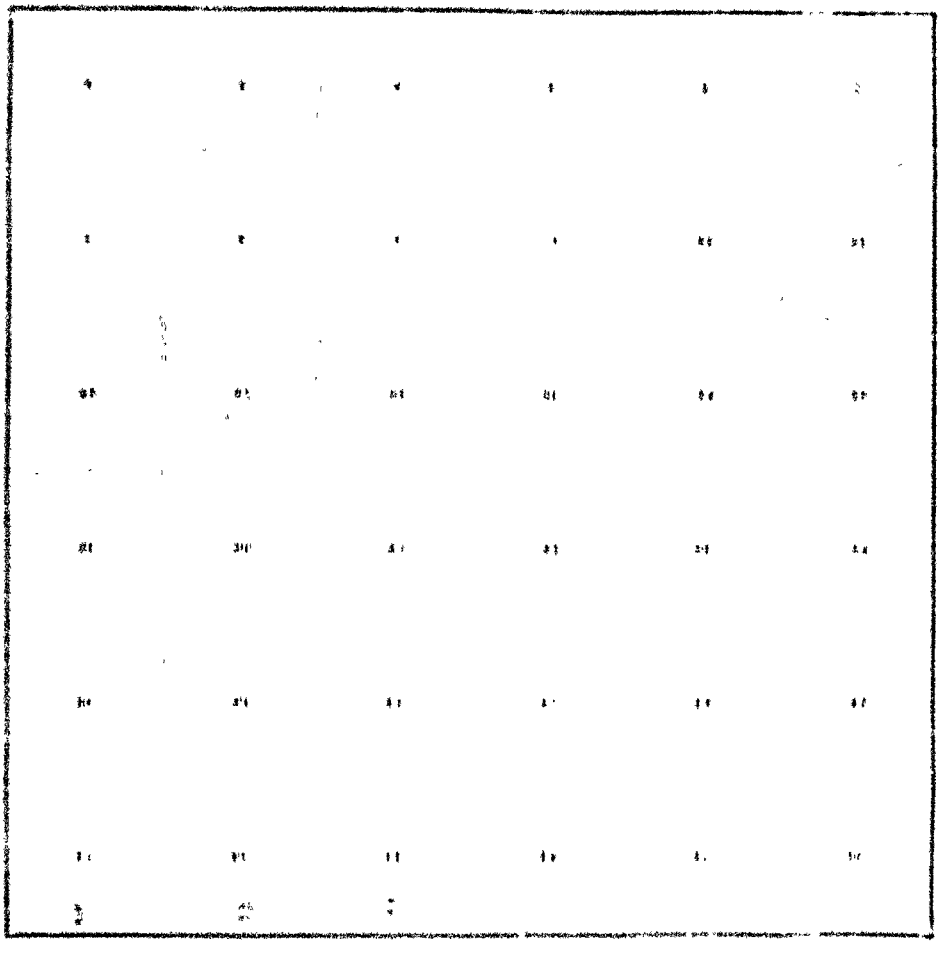
INDEX DIAGRAM.

Township [illegible] *Range* [illegible]



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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter A.Sturm and Melvin D.Heist

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

Retracement of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah.

Walter A. Sturm, Chai

Melvin D. Heist, Chai.

Subscribed and sworn to before me this 3d day of May, 190 6.

SEAL

Harvey D. Heist
U.S.Deputy Surveyor.

WE, I. Homer A.Shelley and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establis of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the su

the retracement of the Fourth Standard Parallel South, through Ran West of the Salt Lake Base and Meridian, Utah.

Homer A. Shelley, Mound

, Mound

Subscribed and sworn to before me this 3d day of May, 190 6.

SEAL

Harvey D. Heist
U.S.Deputy Surveyor.

WE, I, Horace L.Allred and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of c and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the su

Retracement of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah.

Horace L. Allred, A

, A

Subscribed and sworn to before me this 3d day of May, 190 6.

SEAL

Harvey D. Heist
U.S.Deputy Surveyor.

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

survey of Retracement of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah.

Will L. White, Fla

Subscribed and sworn to before me this 3d day of May, 190 6.

SEAL

Harvey D. Heist
U.S.Deputy Surveyor.

RETRACEMENT OF THE FOURTH STANDARD PAR.S., through R. 1 W.

CHAINS

Survey commenced May 3, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made May 1 and 2, 1906, and recorded in book "V", of this survey.

I begin at the standard cor. of Tp. 20 S., Rs. 1 and 2. W., which is a sandstone 18x15x4 ins. above ground, marked and witnessed as described by the surveyor general.

At 6h. 57m., a.m., l.m.t., I set off 39°02'N. on lat. arc, 15°32'N. on decl. arc, and determine a meridian with the solar.

Thence I run on retracement line

East, along the S. bdy. of sec. 31.

40.39 Fall 97 lks. S. of the stan. $\frac{1}{4}$ sec. cor. for sec. 31, which is a sandstone boulder 3x2x2 ft. above ground, marked and witnessed as described by the surveyor general.

I destroy the markings on this cor. leaving the rock in place as a witness to the closing cors. set on the standard line for T. 21 S., R. 2 W.

The course of this line is therefore N. 88°37'E. and the dist. 40.40 chs.

I offset over the $\frac{1}{4}$ sec. cor. and run

East, along S. bdy. of sec. 31.

18.10 Fall 27 lks. N. of the closing cor. to secs. 2 and 3, T. 21 S., R. 2 W., which is a sandstone 18x15x9 ins. above ground, marked and witnessed as described by the surveyor general.

39.89 Fall 60 lks. N. of the stan. cor. of secs. 31 and 32, which is a sandstone 20x10x10 ins. above ground, marked and witnessed as described by the surveyor general.

I destroy the markings on this cor., leaving the stone in place as a witness to the closing cors. set on the standard line for T. 21 S., R. 2 W.

The course of this line is therefore S. 89°08'E. and the dist. 39.90 chs.

RETRACEMENT OF THE FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS	
	East, on S.bdy.sec.32.
39.67	Fall 92 lks.S.of the stan.¼ sec.cor.to sec.32, which is a limestone 8x8x5 ins.above ground, marked and witnessed as described by the surveyor general.
	I destroy the markings on this cor., leaving the stone in place as a witness to the closing corn.set on the standard line in T.21 S., R.2 W.
	The course of this line is therefore N.88°40'E.and the distance 39.68 chs.
	I offset over the ¼ sec.cor.and continue
	East, on S.bdy.of sec.32.
16.82	Fall 4 lks.N.of the closing cor.for secs.1 and 2, T.21 S., R.2 W., which is a limestone 8x8x7 ins.above ground, marked and witnessed as described by the surveyor general
40.37	Fall 10 lks.N.of the stan.cor.of secs.32 and 33, which is a limestone 8x7x7 ins.above ground, marked and witnessed as described by the surveyor general.
	I destroy the markings on this cor., leaving the stone in place as a witness to the closing corn.set on the standard line in T.21 S., R.2 W.
	The course of this line is therefore S.89°51'E.and the dist.40.37 chs.

	East, on S.bdy.of sec.33.
39.38	Fall 60 lks.N.of the ¼ sec.cor.for sec.33, which is a shale stone, 12x10x5 ins.above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore S.89°08'E.and the dist.39.39 chs.
	I offset over the ¼ sec.cor.and continue
	East, on S.bdy.of sec.33.
18.72	Fall 30 lks.N.of the N.E.cor.of T.21 S., R.2 W., heretofore described.
	The course of this line is therefore S.89°04'E.and the dist.18.72 chs.

RETRACEMENT OF THE FOURTH STANDARD PARALLEL SOUTH, through R.1 W.

CHAINS

I also destroy all traces of the stan.cor.of secs.33 and 34, T.20 S., R.1 W., which was set 21.40 chs.E.of the N.E.cor.of T.21 S., R.2 W.

May 3, 1906.

For general description, see subdivisions of T.20 S., R. 1 W.

For, table of latitudes and departures, see N.bdy.of T.20 S.R.1 W.

Harvey H. Hunt

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 Harvey D.Heist, United States Deputy Surveyor, to assist in running, measuring, and rking the lines and corners described in the foregoing field notes of the survey of Retracement of urth Standard Parallel South, through Range 1 West of the Salt Lake Base d Meridian, Utah,
wing the respective capacities in which they acted:

Walter A.Stumm, *Chainman.*

Melvin D.Heist, *Chainman.*

, *Moundman.*

Homer A.Shelley, *Moundman.*

, *Axman.*

Horace L.Allred, *Axman.*

Will L.White, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in ~~surveying~~ retracement all se parts or portions of the Fourth Standard Parallel South, through Range 1 st of the Salt Lake ase 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~~ retracement been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

Walter A. Stumm, *Chainman.*

Melvin D. Heist, *Chainman.*

Homer A. Shelley, *Moundman.*

, *Moundman.*

Horace L. Allred, *Axman.*

, *Axman.*

Will L. White, *Flagman.*

bscribed and sworn to before me this 3d day of May, 1906

SEAL

Harvey D. Heist
U.S.Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surv[illegible] Edward H. Anderson solemnly swear that, in pursuance of a contract received from United States Surveyor General for Utah, bearing da[illegible] 3d day of May, 1906, I have well, faithfully, and truly, in [illegible] proper person, and in strict conformity with the instructions furnished by the United States S[illegible] General for Utah, the Manual of Surveying Instructions, and the laws [illegible] United States, ~~surveyed~~ retraced all those parts or portions of the Fourth Standard Parallel [illegible] South, through Range 1 West [illegible] of the Salt Lake B[illegible] and [illegible] meridian, in the State of Utah, which are represented i[illegible] foregoing field notes as having been ~~surveyed~~ retraced by me, and under my direction; and I do further sole[illegible] swear that all the corners of said retracement survey have been established and perpetuated in strict accordance [illegible] the Manual of Surveying Instructions, and the special written instructions of the United States Surv[illegible] General for Utah and in the specific manner described in the field notes, and [illegible] the foregoing are the original field notes of such ~~survey~~ retracement.

Harvey D. Heist
United States Deputy Surve[illegible]

Subscribed by said Harvey D. Heist, and sworn to before me this 17th day of October, 1906.

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1[illegible]

The foregoing field notes of the ~~survey of~~ Retracement of the Fourth Standard Parallel South, through Range 1 West of the Salt Lake Base and Meridian, Utah.

executed by Harvey D. Heist and Earl V. Woolley under their contract No. 291, dated June 3, 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, and ~~surveys~~ retracements they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge[illegible]

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

United States Surveyor Ge[illegible]

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BOOK A-336
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FILED
AUG 30 1906

FIELD NOTES

OF THE ~~SURVEY~~ RESURVEY OF THE

NORTH BOUNDARY

Township No. 20 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,*

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *1905,*

Survey commenced May 4, *1906*

Survey completed May 4, *1906*

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NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman.

Melvin D. Heist, "

Homer A Shelley, Moundman,

Horace L. Allred, Axman

Will L. White, Flagman

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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter A.Stumm and Melvin D.Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surv the N.bdy.T.20 S., R.1 W.; N.bdy.T.20 S., R. 2 W.;S.bdy.Tps.18 and S., R. 2 W.; N.bdy.T.19 S., R. 1 W.; and W.bdy.T.23 S., R.4½ W. of Salt Lake Base and Meridian, Utah.

Walter A. Stumm, Chain

Melvin D. Heist, Chain

Subscribed and sworn to before me this 7th day of June, 1906.

SEAL

Harvey D. Hirst
U.S.Deputy Surveyor.

WE, I, Homer A.Shelley and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the sur the N.bdy.T.20 S., R. 1 W.; N.bdy.T.20 S., R. 2 W.;S.bdy.Tps.18 and S., R. 2 W.; N.bdy.T.19 S., R. 1 W.; and W.bdy.T.23 S., R. 4½ W.of Salt Lake Base and Meridian, Utah.

Homer A. Shelley, Mound

, Mound

Subscribed and sworn to before me this 7th day of June, 1906.

SEAL

Harvey D. Hirst
U.S.Deputy Surveyor.

WE, I, Horace L.Allred and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the sur the N.bdy.T.20 S., R.1 W.; N.bdy.T.20 S., R. 2 W.; S.bdy.Tps.18 an S., R. 2 W.; N.bdy.T.19 S., R. 1 W.; and W.bdy.T.23 S., R.4½ W. of Salt Lake Base and Meridian, Utah.

Horace L. Allred, A

, A

Subscribed and sworn to before me this 7th day of June, 1906.

SEAL

Harvey D. Hirst
U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, the N.bdy.T.20 S., R. 1 W. ; N.bdy.T.20 S., R. 2 W.; S.bdy survey of 18 and 19 S., R. 2 W.; N.bdy.T.19 S.R.1 W.; and W.bdy.T.23 4½ W.of the Salt Lake Base and Meridian, Utah.

Will L. White, Flag

Subscribed and sworn to before me this 7th day of June, 1906.

SEAL

Harvey D. Hirst
U.S.Deputy Surveyor.

RESURVEY OF THE N.BOUNDARY OF T.20 S.,R.1 W.

CHAINS

Survey commenced,May 4,1906,and executed with the instrument described in book " A ",of this survey.

I know the instrument to be in adjustment from recent observations made May 1 and 2,1906 and recorded in book " V " ,of this survey.

I begin at the cor.of secs.3-4-33 and 34,on the N.bdy. of the Tp.,which is a pine post,greatly decayed with marks nearly obliterated.

I destroy all traces of this cor.and reestablish it at the same place as follows:

Set a limestone,18x10x7 ins.,12 ins.in the ground,for reestablished cor.to secs.3-4-33 and 34,marked with 3 notches on E.and W.edges,and raise a mound of stone,2 ft base,1½ ft.high,W.of cor.

Pits impracticable.

At 6h.57m.,a.m.,l.m.t.,I set off 39°07'N.on lat.arc,15° 50'N.on decl.arc,and determine a meridian with the solar.

Thence I run

West,on resurvey line,

Bet.secs.4 and 33.

Ascend over rolling and rocky land,through dense artemisia.

22.00 Wash,30 ft.wide,10 ft.deep,course N.E.

30.70 Wash,40 ft.wide,15 ft.deep,course N.E.

39.00 Wash,50 ft.wide,10 ft.deep,course N.E.

40.00 No trace can be found of the old ¼ sec.cor.

I reestablish this cor.as follows:

Set a limestone,20x10x5 ins.,15 ins.in the ground,for reestablished 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.

No trace can be found of the post said to set 24.00 chs. W.of this point.

Land,rolling.

Soil,rocky,3rd.rate.

RESURVEY OF THE N.BDY.OF T.20 S.,R.1 W.

CHAINS	
	No timber; undergrowth, sage and shadscale.
	Dense undergrowth on 40.00 chs.

Harvey M. Hirst
U.S.Deputy Surveyor.

Volume
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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:

For final affidavits see book "Z[26]" Tp.23 S., R.4½ W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

For final affidavits see book "Z[26]" Tp.23 S., R. 4½ W. ....., *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, solemnly swear that, in pursuance of a contract received from United States Surveyor General for ....., bearing date of t ..... day of ....., 190 , I have well, faithfully, and truly, in my c proper person, and in strict conformity with the instructions furnished by the United States Survey General for ....., the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of .....

For final affidavit see book "Z[26]" Tp. 23 S., R. 4½ W.

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

.....
United States Deputy Survey

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 190

The foregoing field notes of the re survey of the North Boundary of Township No. 20 South, Range No. 1 West of the Salt Lake Bse and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley under their contract No. 281, dated June 3, 190 5, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor Gener

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

.....
United States Surveyor Gen

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4—679.

FILED
AUG 30 1906

"Z"

BOOK A-336

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

Township No. 20 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

arvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,* s

der ~~his~~ their *Contract No.* 291, *dated* June 3, *1905.*

urvey commenced May 4, *1906*

urvey completed May 4, *1906*

6—151

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred Axman

Will L. White, Flagman

6—151

BOOK A-336

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Walter A.Stumm and Melvin D.Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will leve chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we ... measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su... the N.bdys.of Tps.20 S., Rs. 1 and 2 W.;E.bdy.Tp.19 S., R. 2 W.; N Tp.19 S., R. 1 W.; W.bdy.Tp.23 S., R. 4 W.; N.bdy.Tp.24 S., R.4½ W E.and W.bdys.Tp.23 S., R. 4½ W. of the Salt Lake Base and Meridian

Walter A. Stumm, Chain

Melvin D. Heist, Chain

Subscribed and sworn to before me this 4th day of May, 190 6

SEAL

Harvey M. Hirst
U.S.Deputy Surveyor.

We, I, Homer A.Shelley and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establis... of corners, according to the instructions given us, to the best of our skill and ability, in the su... the N.bdys.of Tps.20 S., Rs.1 and 2 W.; E.bdy.Tp.19 S., R. 2 W.;N. Tp.19 S., R. 1 W.; W.bdy.Tp.23 S., R. 4 W.; N.bdy.Tp.24 S.,R.4½ W. E.and W.bdys.Tp.23 S., R.4½ W.of the Salt Lake Base and Meridian,

Homer A. Shelley, Mound

..., Mound

Subscribed and sworn to before me this 4th day of May, 190 6

SEAL

Harvey M. Hirst
U.S.Deputy Surveyor.

We, I,Horace L.Allred and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of co... and other duties, according to instructions given us, to the best of our skill and ability, in the su... the N.bdys.of Tps.20 S., Rs.1 and 2 W.; E.bdy.Tp.19 S., R. 2 W.;N.bd Tp.19 S., R.1 W.; W.bdy.Tp.23 S., R.4 W.; N.bdy.Tp.24 S., R. 4½ W.; E.and W.bdys.Tp.23 S., R.4½ W.of the ~~Salt~~ Lake Base ~~and~~ Meridian, Ut

Horace L. Allred, Ax

..., Ax

Subscribed and sworn to before me this 4th day of May, 190 6

SEAL

Harvey M. Hirst
U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, the N.bdys.of Tps.20 S., Rs.1 and 2 W.; E.bdy.Tp.19 S., R. survey of N.bdy.Tp.19 S., R.1 W.; W.bdy.Tp.23 S., R. 4 W.; N.bdy.Tp.2 R.4½ W.; and E. and W.bdys.Tp.23 S., R.4½ W.of the Salt Lake Base an ridian, Utah.

Will L. White, Fla

Subscribed and sworn to before me this 4th day of May, 190 6

SEAL

Harvey M. Hirst
U.S.Deputy Surveyor.

NORTH BOUNDARY OF T.20 S.,R.1 W.

CHAINS

Survey commenced, May 4, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made May 1 and 2, 1906, and recorded in book "V", of this survey.

I begin at the reestablished ¼ sec.cor. between secs.4 an 33, heretofore described.

The solar observation was taken at the cor. of secs.3-4-33 and 34, ½ mile east of this point, on this same day.

Thence I run

West, bet. secs.4 and 33.

Ascend over rocky land, through dense artemisia.

4.00 Begin abrupt ascent; bears N.E. and S.W.

40.00 Set a limestone, 15x8x5 ins., 10 ins. in the ground, for cor of secs.4-5-32 and 33, marked with 4 notches on E. and 2 notches on W. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Pits impracticable.

Land, rolling and mountainous.

Soil, rocky, 3rd. rate.

No timber; undergrowth, sage.

Mountainous land or dense undergrowth on 40.00 chs.

West, bet. secs.5 and 32.

Ascend abruptly over rocky land, through dense artemisia.

36.00 Rocky spur, projects S.

Abrupt descent.

40.00 Hollow, 100 ft. deep, course S.E.

Set a limestone, 18x8x5 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.

Abrupt ascent.

44.50 Enter scattering cedar and pinon timber.

NORTH BOUNDARY OF T.20 S.,R.1 W.

CHAINS	
64.80	Ridge, bears N.W. and S.E.
	Abrupt descent.
68.00	Leave timber.
80.00	Set a limestone, 32x12x3 ins., 24 ins. in the ground, for cor. of secs. 5-6-31 and 32, marked with 5 notches on E. and 1 notch on W. 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, scattering cedars and pinons; undergrowth, sage.
	Mountainous land on 80.00 chs.
	May 4: At this cor. I set off 15°53'N. on decl. arc, and at 11h. 57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat is 37°07'N.
	West, bet. secs. 6 and 31.
	Descend over rocky land, through dense artemisia.
4.00	Enter heavy cedar and pinon timber, bearing N.W. and S.E.
8.75	Hollow, 150 ft. deep, course S.E.
	Abrupt ascent.
30.00	Ridge, bears N.E. and S.W.
	Descend.
33.50	Hollow, 100 ft. deep, course N.E.
	Abrupt ascent.
40.00	Set a limestone, 18x12x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon, 12 ins. diam., bears N.12°W., 53 lks. dist., marked ¼ S 31 B T.
	A pinon 7 ins. diam., bears S.77°E., 15 lks. dist., marked ¼ S 6 B T.
49.50	Ridge, bears N.W. and S.E.
	Abrupt descent.
56.50	Hollow, 150 ft. deep, course S.E.

NORTH BOUNDARY OF T.20 S.,R.1 W.

CHAINS	
	Abrupt ascent.
81.00	Ridge,bears N.E.and S.W.
	Abrupt descent.
89.00	Hollow,200 ft.deep,course N.E.
	Abrupt ascent.
105.00	Spur,projects N.
	Abrupt descent.
113.00	Hollow,150 ft.deep,course N.
	Abrupt ascent.
117.50	Spur,projects N.
	Abrupt descent.
134.00	Hollow,400 ft.deep,course N.E.
	Abrupt ascent,over broken and rocky land.
237.00	Spur,projects N.E.
	Descend.
258.50	Hollow,100 ft.deep,course N.E.
	Abrupt ascent.
271.50	Devide of mountain,bears N.and S.
	Leave heavy timber,bears N.and S.
	Abrupt descent.
	Enter scattering cedar and pinon timber.
286.00	Hollow,300 ft.below devide,course S.
	Leave timber.
	Ascend.
293.20	Intersect E.bdy.of T.20 S.,R.2 W.,31.10 chs.S.of the cor. of Tps.19 and 20 S.,Rs.1 and 2. W.,which is a sandstone 16x12x9 ins.above ground,marked and witnessed as described by the surveyor general.
	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for closing cor.to Tps.19 and 20 S.,R.1 W.,marked
	C C 1 W on E.,
	19 S. on N.,and
	20 S on S.face,with 6 grooves on N.S.and E.faces,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.
	I [illegible] marked on the [illegible]

NORTH BOUNDARY OF T.20 S.,R.1 W.

CHAINS	
	I destroy all marks on the cor.of Tps.19 and 20 S.,R.s 1 and 2 W.,pertaining to R.1 W.,leaving it as the cor.to Tps.19 and 20 S.,R.2 W.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 293.20 chs.
	Connection line.
	From the closing cor.of Tps.19 and 20 S.,R.1 W.,just established,I run
	North,along the E.bdy.of sec.1,T.20 S.,R.2 W.
	Ascend over rocky land,through dense artemisia.
4.00	Enter heavy cedar and pinon timber,bearing N.E.and S.W.
18.50	Ridge,bears E.and W.
	Leave heavy timber,bearing E.and W.
	Descend through scattering cedar and pinon timber.
23.00	Head of hollow,course N.W.
	Ascend along steep W.slope.
31.10	The cor.of Tp.s 19 and 20 S.,R.2 W.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon; undergrowth,sage.
	Mountainous land on 31.10 chs.
	May 4,1906.

For general description see Subdivisions of T.20 S.,R.1 W.

BOUNDARIES OF T.20 S.,R.1 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures
			Chs.	Chs.	Chs.	Chs.
4th. Stan. Par. S.	West	236.40				236.40
	N.89°04'W.	18.72	.30			18.72
	N.89°08'W.	39.39	.60			39.38
	N.89°51'W.	40.37	.10			40.37
	S.88°40'W.	39.68		.92		39.67
	N.89°08'W.	39.90	.60			39.89
	S.88°37'W.	40.40		.97		40.39
ody. T.21 S.,R.2 W.	North	36.00	36.00			
ody T.20 S.,R.2 W. N.bdy.	North	448.90	448.90			
T.20 S.,R.1 W.	East	453.20			453.20	
t.secs.3 and 4	South	40.12		40.12		
	S.0°30'E.	40.30		40.30	.35	
" 9 " 10	S.0°30'E.	81.09		81.09	.71	
" 15 " 16	S.0°30'E.	81.00		81.00	.71	
" 21 " 22	S.0°32'E.	81.10		81.10	.75	
" 27 " 28	S.0°02'E.	80.04		81.04	.05	
" 33 " 34	S.0°02'E.	80.04		80.04	.05	
onvergency					.54	
			486.50	486.58	456.36	454.8
				486.50	454.82	
	Error in lat.and dep.			0.08	1.54	

Harry L. Hirst

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:

or final affidavits see book "Z[25]" Tp.23 S., R. 4½ W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

or final affidavits see book "Z[25]" Tp.23 S., R. 4½ W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6-131

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavit see book "Z 25" Tp.23 S., R. 4½ W.

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

..... *United States Deputy Sur*

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1

The foregoing field notes of the survey of the North Boundary of Township No 20 South, Range No.1 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D.Heist and Earl V.Woolley
under ~~his~~ their contract No. 291, dated June 3, 190 5, having
critically examined, and the necessary corrections and explanations ~~made, the~~ said field notes, a
surveys they describe, are hereby approved.

Thomas Reed
United States Surveyor Ge

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

..... *United States Surveyor G*

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4—679.

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BOOK A-336

FIELD NOTES

RESURVEY
OF THE ~~SURVEY~~ OF THE

SUBDIVISIONS

of

Township No. 20 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

rvey D. Hoint and Earl M. Woolley *United States Deputy Surveyors*

nder their *Contract No.* 291, *dated* June 3, *1905*

urvey commenced May 5, *1906*

urvey completed May 6, *1906*

FILED
AUG 30 1906

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred Axman

Will L. White, Flagman

BOOK A-336

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter A.Stumm and Melvin D.Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su re the subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 and 2 W. Tp.18 S., R. 1 W.; and Tp.23 S., R. 5 W.of the Salt Lake Base and Me ridian, Utah.

Walter A. Stumm, Chain.

Melvin D. Heist, Chain.

Subscribed and sworn to before me this 5th day of May, 1906

SEAL

Harvey W. Hist

U.S.Deputy Surveyor.

WE, I, Homer A.Shelley and

do solemnly swear that we will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given me us, to the best of our my skill and ability, in the surv re the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 and 2 W. Tp.18 S., R. 1 W.; and Tp. 23 S., R. 5 W.of the Salt Lake Base and Meridian, Utah.

Homer A. Shelley, Mound.

, Mound

Subscribed and sworn to before me this 5th day of June, 1906.

SEAL

Harvey W. Hist

U.S.Deputy Surveyor.

WE, I, Horace L.Allred and

do solemnly swear that I we will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given me us, to the best of my our skill and ability, in the surv re the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 and 2 W. Tp.18 S., R.1 W.; and Tp.23 S., R. 5 W.of the Salt Lake Base and Me ridian, Utah.

Horace L. Allred A.

, A.

Subscribed and sworn to before me this 5th day of June, 1906.

SEAL

Harvey W. Hist

U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, i the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 re survey of 2 W.; Tp.18 S., R. 1 W.; and Tp.23 S., R. 5 W.of the Salt L Base and Meridian, Utah.

Will L. White, Fla

Subscribed and sworn to before me this 5th day of June, 1906.

SEAL

Harvey W. Hist

U.S.Deputy Surveyor.

6—151

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Survey commenced, May 5, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made May 1 and 2, 1906, and recorded in book " V ", of this survey.

I begin at the reestablished cor. of secs. 3-4-33 and 34, heretofore described on the Fourth Standard Parallel South.

At 6h. 57m., a.m., l.m.t., I set off 39°02'N., on lat. arc, 16°07'N. on decl. arc, and determine a meridian with the solar.

Thence I run, on resurvey line

North, bet. secs. 33 and 34.

Over rolling gravelly land, through dense artemisia.

39.75 Wood road, bears N.W. and S.E.

40.01 Fall 2 lks. E. of the ¼ sec. cor., which is a post, greatly decayed, with marks obliterated.

I destroy all traces of the cor. and at same point reestablish the cor. as follows:

Set a limestone, 20x8x4 ins., 15 ins. in the ground, for reestablished 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.

I continue my line north

48.50 Wash, 1.00 ch. wide, 20 ft. deep, course E.

67.00 Wash, 25 lks. wide, 8 ft. deep, course E.

80.04 Fall 5 lks. E. of the cor. of secs. 27-28-33 and 34, which is a post, greatly decayed with marks obliterated, I reestablish this cor. as follows:

Set a limestone, 20x7x4 ins., 15 ins. in the ground, for reestablished cor. of secs. 27-28-33 and 34, marked with 3 notches on E. and 1 notch on S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Pits impracticable.

RESURVEY OF SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	The course of this line is therefore N.0°02'W.
	Land, rolling.
	Soil, gravelly, 3rd. rate.
	No timber; undergrowth, sage and shad scale.
	Dense undergrowth on 80.04 chs.

	North, resurveying bet. secs. 27 and 28.
	Over rolling gravelly land, through dense artemisia.
28.40	Wash, 50 lks. wide, 10 ft. deep, course E.
38.00	Wood road, bears N.W. and S.E.
40.02	Fall 3 lks. E. of the ¼ sec. cor., which is a post, greatly decayed with marks nearly obliterated.
	I destroy all traces of this cor. and reestablish it as follows:
	Set a limestone, 15x12x10 ins., 10 ins. in the ground, for reestablished 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.
	I continue my line north
42.50	Wash, 40 lks. wide, 15 ft. deep, course S.E.
80.04	Fall 5 lks. E. of the cor. of secs. 21-22-27 and 28, which is a post, greatly decayed, with marks nearly obliterated.
	I destroy all traces of this cor. and reestablish it at the same point as follows:
	Set a limestone, 15x10x10 ins., 10 ins. in the ground, for reestablished cor. of secs. 21-22-27 and 28, marked with 3 notches on E. and 2 notches on S. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	The course of this line is therefore N.0°02'W.
	Land, rolling.
	Soil, gravelly, 3rd. rate.
	No timber; undergrowth sage and shad scale.
	Dense undergrowth on 80.04 chs.

RESURVEY OF SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

North, resurveying bet.secs.21 and 22.

Descend over rolling and gravelly land, through dense artemisia.

40.54 Fall 38 lks.E.of the $\frac{1}{4}$ sec.cor., which is a post, greatly decayed with marks nearly obliterated.

I destroy all traces of this cor.and at same point I reestablish cor.as follows:

Set a limestone, 18x10x5 ins, 12 ins.in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.

Pits impracticable.

I continue my line north

41.50 Wash, 1.00 ch.wide, 20 ft.deep, course E.

58.00 Wash, 50 lks.wide, 10 ft.deep, course E.

80.25 Wash 40 lks.wide, 5 ft.deep, in hollow, 50 ft.deep, course E

81.10 Fall 75 lks.E.of the cor.of secs.15-16-21 and 22, which is a post, greatly decayed, with marks nearly obliterated.

I destroy all traces of the cor.and at same point reestablish the cor.as follows:

Set a limestone, 18x8x6 ins., 12 ins.in the ground, for reestablished cor.of secs.15-16-21 and 22, marked

20 S on N.E. and

1 W on S.E.face, with 3 notches on S.and E.edges, and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.

Pits impracticable.
The course of this line is therefore N.0°32'W.
Land, rolling.

Soil, gravelly, 3rd.rate.

No timber; undergrowth, sage and shad scale.

Dense undergrowth on 81.10 chs.

North, resurveying bet.secs.15 and 16.

Ascend over gravelly land, through dense artemisia.

8.00 Spur, projects E.

Descend.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS	
40.53	Fall 35 lks.E.of the ¼ sec.cor.which is a post,greatly decayed,with marks nearly obliterated.
	I destroy all traces of the cor.and at same point reestablish the cor.as follows:
	Set a limestone,24x10x6 ins.,18 ins.in the ground,for reestablished 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.
42.25	Hollow,50 ft.deep,course E.
	Ascend.
44.50	Ridge,bears E.and W.
	Descend.
48.75	Hollow,50 ft.deep,course E.
	Ascend.
55.50	Ridge,bears E.and W.
	Descend.
63.75	Hollow,75 ft.deep,course E.
	Ascend.
71.00	Spur,projects E.
	Descend.
76.50	Hollow,75 ft.deep,course S.E.
	Ascend.
79.50	Ridge,bears N.W.and S.E.
	Descend.
81.00	Fall 71 lks.E.of the cor.of secs.9-10-15and 16,which is a post greatly decayed,with marks nearly obliterated.
	I destroy all traces of this cor.and at same point reestablish the cor.as follows:
	Set a limestone,20x10x7 ins.,15 ins.in the ground,for reestablished cor.of secs.9-10-15 and 16,marked with 4 notches on S.and 3 notches on E.edges,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	The course of this line is therefore N.0°30'W.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Land, rolling.

Soil, gravelly, 3rd. rate.

No timber; undergrowth, sage and shad-scale.

Dense undergrowth on 81.00 chs.

May 5: At this cor. I set off 16°10'N. on decl. arc, and at 11h. 57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°05'N.

West, resurveying bet. secs. 9 and 16.

Ascend over rocky land, through dense artemisia.

5.00 Ridge, bears N.W. and S.E.

Descend.

8.75 Hollow, 75 ft. deep, course S.E.

Ascend.

35.00 Ridge, bears N.W. and S.E.

Descend.

40.00 Hollow, 50 ft. deep, course S.E.

No trace can be found of the $\frac{1}{4}$ sec. cor.

I reestablish the cor. as follows:

Set a limestone, 20x8x5 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

No trace can be found of the post, set 38.00 chs. west of this cor.

Land, rolling.

Soil, gravelly, 3rd. rate.

No timber; undergrowth, sage and shad scale.

Dense undergrowth on 40.00 chs.

From the cor. of secs. 9-10-15 and 16, I run

North, resurveying bet. secs. 9 and 10.

Descend over gravelly land, through dense artemisia.

3.75 Hollow, 50 ft. deep, course S.E.

Ascend.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
12.00	Ridge, bears N.W. and S.E.
	Descend.
17.00	Hollow, 50 ft. deep, course S.E.
	Ascend.
19.25	Spur, projects E.
	Descend.
26.00	Hollow, 75 ft. deep, course E.
	Ascend.
29.50	Spur, projects E.
	Descend.
34.25	Hollow, 75 ft. deep, course N.E.
	Ascend.
40.00	Spur, projects N.E.
	Descend.
40.50	Fall 36 lks. E. of the $\frac{1}{4}$ sec. cor., which is a post, greatly decayed, with marks obliterated.
	I destroy all traces of the cor. and at the same point I reestablish the cor. as follows:
	Set a limestone, 24x15x8 ins., 18 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	I continue my line north
43.75	Hollow, 75 ft. deep, course E.
	Ascend.
45.00	Spur, projects E.
	Descend.
47.00	Hollow, 75 ft. deep, course E.
	Abrupt ascent.
51.00	Ridge, bears E. and W.
	Descend.
65.00	Hollow, 75 ft. deep, course E.
	Ascend.
72.00	Spur, projects E.
	Descend.

RESURVEY OF THE SUBDIVISIONS OF T.20 S., R.1 W.

CHAINS

81.09 Fall 71 lks.E.of the cor.of secs.3-4-9 and 10,which is a post,greatly decayed,with marks nearly obliterated.

I destroy all traces of the cor.and at the same point I reestablish it as follows:

Set a limestone,20x12x6 ins.,15 ins.in the ground,for cor.of secs.3-4-9 and 10,marked with 5 notches on S.and 3 notches on E.edges,and raise a mound of stone,2 ft.bas , 1½ ft.high,W.of cor.

Pits impracticable.

The course of this line is therefore N.0°30'W.

Land,rolling.

Soil,gravelly,3rd.rate.

No timber; undergrowth sage and shad scale.

Dense undergrowth on 81.09 chs.

West,resurveying bet.secs.4 and 9.

Ascend over gravelly land,through dense artemisia.

19.00 Spur,projects N.

Abrupt descent.

30.35 Hollow,100 ft.deep,course N.E.

Abrupt ascent.

40.00 No trace can be found of the old ¼ sec.cor.

I reestablish this cor.as follows:

Set a limestone,20x10x4 ins.,15 ins.in the ground,for reestablished 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.

No trace can be found of the post,set 34.00 chs.west of this cor.

Land,rolling.

Soil,gravelly,3rd.rate.

No timber; undergrowth,sage.and shad scale.

Dense undergrowth on 40.00 chs.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	From the cor.of secs.3-4-9 and 10,I run North,resurveying bet.secs.3 and 4.
	Descend over gravelly land,through dense artemisia.
23.25	Hollow,100 ft.deep,course N.E.
	Ascend.
30.00	Ridge,bears N.E.and S.W.
	Descend.
40.00	Hollow,75 ft.deep,course N.E.
	Ascend.
40.30	Fall 36 lks.E.of the $\frac{1}{4}$ sec.cor.,which is a post,greatly decayed with marks nearly obliterated.
	I destroy all traces of the cor.and reestablish it as follows:
	Set a sandstone,18x10x7 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	I continue my line north
43.50	Spur,projects N.E.
	Descend.
47.50	Hollow,30 ft.deep,course N.E.
	Ascend.
54.00	Spur,projects N.E.
	Descend.
60.50	Hollow,50 ft.deep,course N.E.
	Ascend.
64.50	Spur,projects N.E.
	Descend.
68.50	Hollow,75 ft.deep,course N.E.
	Ascend.
80.42	Fall 36 lks.E.of the reestablished cor.of secs.3-4-33 and 34,heretofore described.
	The course of the first half of this line is N.0°30'W. and of the second half North.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Land,rolling.

Soil,gravelly,3rd.rate.

No timber.;undergrowth,sage and shad scale.

Dense undergrowth on 80.42 chs.

May 5,1906.

May 6: At 6h.57m.,a.m.,l.mt.,I set off 39°02'N.on lat.arc, 16°24'N.on decl.arc,and determine a meridian with the solar at the reestablished standard cor.of secs.32 and 33,heretofore described on the Fourth Standard Parallel South.

Thence I run north on a blank line bet.secs.32 and 33, 28 and 29, and 20 and 21 and can find no traces of ¼ sec. or sec.cors.

No trace of any cor.can be found between secs.28 and 33, 21 and 28 and 16 and 21,I therefore reestablish these lines as follows:

I begin at the stan.cor.of secs.32 and 33,and run

North,resurveying bet.secs.32 and 33.

Ascend over rocky land,through dense artemisia.

3.50 Ridge,bears N.W.and S.E.

Descend.

16.25 Hollow,50 ft.deep,course S.E.

Ascend.

26.00 Spur,projects E.

Descend.

36.25 Hollow,75 ft.deep,course N.E.

Ascend.

39.00 Spur,projects N.E.

Descend.

40.00 Set a limestone,18x10x6 ins.,12 ins.in the ground,for reestablished 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.

After diligent search no trace can be found of the old ¼ sec.cor.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
48.00	Hollow,75 ft.deep,course E.
	Ascend.
50.00	Spur,projects E.
	Descend.
53.00	Hollow,50 ft.deep,course E.
	Ascend.
56.30	Spur,projects E.
	Descend.
62.00	Wood Road,bears E.and W.,in hollow,75 ft.deep,course E.
	Ascend.
65.00	Spur,projects E.
	Descend.
73.00	Hollow,50 ft.deep,course E.
	Ascend.
77.00	Spur,projects E.
	Descend.
80.00	Set a limestone,28x6x4 ins.,21 ins.in the ground,for reestablished cor.of secs.28 and 33,marked with 1 notch 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.
	After diligent search,no trace can be found of the old sec.cor.
	Land,rolling.
	Soil,rocky,3rd.rate.
	No timber; undergrowth sage.
	Dense undergrowth on 80.00 chs.

	East,on a random line,bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
79.94	Intersect the reestablished cor.of secs.27-28-33 and 34.
	Thence I run
	West,on a true line,
	resurveying,bet.secs.28 and 33.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Ascend over rolling and gravelly land, through dense artemisia.

39.97 Set a limestone, 15x10x6 ins., 10 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.

54.50 Wood road, bears N.W. and S.E.

57.00 Begin abrupt ascent, bears N. and S.

62.00 Spur, projects S.E.

Descend.

69.50 Hollow, 50 ft. deep, course S.E.

Ascend.

71.00 Spur, projects S.E.

Descend.

75.00 Hollow, 50 ft. deep, course S.E.

Ascend.

79.94 The reestablished cor. of secs. 28-29-32 and 33.

Land, rolling.

Soil, rocky, 3rd. rate.

No timber; undergrowth, sage.

Dense undergrowth on 79.94 chs.

May 6: At this cor. I set off 16°27'N. on decl. arc, and at 11h. 57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°03'N.

North, resurveying, bet. secs. 28 and 29.

Descend over rocky land, through dense artemisia.

6.00 Head of hollow, course S.E.

Ascend.

10.00 Ridge, bears N.W. and S.E.

Descend.

16.00 Wood road, bears E. and W. in hollow, 100 ft. deep, course E.

Ascend.

RESURVEY OF THE SUBDIVISIONS OF T.20 S. R.1 W.

CHAINS	
33.00	Spur, projects E.
	Descend.
40.00	Set a limestone, 24x10x5 ins., 18 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	After diligent search, no trace can be found of the old $\frac{1}{4}$ sec. cor.
51.00	Hollow, 50 ft. deep, course E.
	Ascend.
54.00	Spur, projects E.
	Descend.
59.00	Hollow, 75 ft. deep, course E.
	Ascend.
65.00	Spur, projects E.
	Descend.
69.00	Hollow, 75 ft. deep, course E.
	Ascend.
75.00	Spur, projects E.
	Descend.
80.00	Set a limestone, 28x10x3 ins., 21 ins. in the ground, for reestablished cor. of secs. 20-21-28 and 29, marked with 2 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	After diligent search, no trace can be found of the old sec. cor.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Mountainous land on 80.00 chs.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	East, on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 5 lks. S. of the reestablished cor. of secs. 21-22-27 and 28.
	Thence I run
	S.89°58'W., on a resurvey line,
	Bet. secs. 21 and 28.
	Ascend over rolling, rocky land, through dense artemisia.
36.90	Wood road, bears N.W. and S.E.
39.94	Set a limestone, 18x12x10 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
	After diligent search no trace can be found of the old $\frac{1}{4}$ sec. cor.
42.00	Spur, projects S.E.
	Descend.
48.50	Hollow, 50 ft. deep, course S.E.
	Ascend.
79.88	The cor. of secs. 20-21-28 and 29.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Dense undergrowth on 79.88 chs.

	The length of the E. bdy. of sec. 21 being out of limits for distance, I set two sets of cors. on the West bdy. of sec. 21, as follows:
	North, resurveying along W. bdy. of sec. 21.
	Descend over rocky land, through dense artemisia.
2.75	Hollow, 50 ft. deep, course E.
	Ascend.
4.75	Spur, projects E.
	Descend.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS	
10.40	Hollow,75 ft.deep,course S.E.
	Abrupt ascent.
22.50	Ridge,bears E.and W.
	Descend.
29.00	Hollow,50 ft.deep,course E.
	Ascend.
39.00	Ridge,bears E.and W.
	Abrupt descent.
40.00	Set a limestone,20x10x5 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.for sec.20,marked $\frac{1}{4}$ on W.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
40.55	A distance equal to one-half length of E.bdy.sec.21. Set a limestone,15x10x6 ins.,10 ins.in the ground,for reestablished $\frac{1}{4}$ sec.cor.for sec.21,marked $\frac{1}{4}$ on E.face, and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,E.of cor.
	Pits impracticable.
	After diligent search no trace can be found of the old $\frac{1}{4}$ sec.cor.
43.50	Hollow,100 ft.deep,course E.
	Ascend.
51.11	Ridge,bears E.and W.
	Descend.
55.00	Hollow,75 ft.deep,course E.
	Ascend.
60.00	Spur,projects E.
	Descend.
66.00	Hollow,75 ft.deep,course N.E.
	Ascend.
73.00	Ridge,bears N.E.and S.W.
	Descend.
79.70	Hollow,75 ft.deep,course N.E.
	Ascend.
80.00	Set a limestone,18x10x4 ins.,12 ins.in the ground,for cor.of secs.17 and 20,marked with 3 notches on S.and 4

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS

notches on E.edges,and raise a mound of stone,2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.

Pits impracticable.

81.10 A distance equal to the east bdy.of sec.21.

Set a limestone,20x12x9 ins.,15 ins.in the ground,for reestablished cor.to secs.16 and 21,marked with 3 notches on S.and 4 notches on E.edges,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,E.of cor.

Pits impracticable.

After diligent search,no trace can be found of the old sec.cor.

Land,mountainous.
Soil,rocky,3rd.rate.
No timber; undergrowth,sage.

Dense undergrowth on 81.10 chs.

---:---

N.89°58'E.,on a random line,bet.secs.16 and 21.

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

79.13 Intersect N.and S.line,5 lks.N.of the reestablished cor. of secs.15-16-21 and 22.

Thence I run

West,on a resurvey line,

Bet.secs.16 and 21.

Ascend along bottom of hollow,course E.,through dense artemisia.

19.00 Leave hollow,course from N.W.to E.

Ascend over rocky land.

38.00 Spur,projectsN.

Descend.

39.56$\frac{1}{2}$ Set a limestone,20x10x3 ins.,15 ins.in the ground,for reestablished $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.

Pits impracticable.

After diligent search,no trace can be found of the old $\frac{1}{4}$ sec.cor.

RESURVEY OF THE SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
44.00	Same hollow,50 ft.deep,course N.E.
	Ascend.
72.00	Ridge,bears N.E.and S.W.
	Descend.
78.50	Hollow,75 ft.deep,course N.E.
	Ascend.
79.13	The reestablished cor.of secs.16 and 21.
	Land,rolling.
	Soil,rocky,3rd.rate.
	No timber; undergrowth,sage.
	Dense undergrowth on 79.13 chs.
	May 6,1906.

For general description,see subdivisions of T.20 S.,R.1 W.

Harry D. Feist
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

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

.....

owing the respective capacities in which they acted:

For final affidavits see book "Z[28]" Tp. 23 S. , R.45 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

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 .....

For final affidavits see book "Z[28]" Tp.23 S., R. 45 W. ....., *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 Survey
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date o
..... day of ....., 190 , I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Su
General for ....., the Manual of Surveying Instructions, and the laws o
United States, surveyed all those parts or portions of .....

For final affidavit see book "Z[28]" Tp.23 S., R. 5 W.

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

United States Deputy Su

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18

The foregoing field notes of the re survey of the Subdivisional lines of Townsl
No.20 South, Range No.1 West of the Salt Lake Base and Meridian, U

executed by Harvey D.Heist and Earl V.Woolley
under their contract No. 291, dated June 3, 1905, ~~190X~~, havin
critically examined, and the necessary corrections and explanations made, the said field notes, a
surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

United States Surveyor Ge

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BOOK A-336

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FILED

AUG 30 1906

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

Township No. 20 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Guy D. Heint and Earl V. Woolley, *United States Deputy Surveyors*

under their Contract No. 291, *dated* June 3, 1905

Survey commenced May 7, 1906

Survey completed May 13, 1906

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman.

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred Axman

Will L. White, Flagman

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Volume
#
R0336

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PRELIMINARY OATHS OF ASSISTANTS.

We, Walter A. Stumm and Melvin D. Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su ve the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 and 2 W. Tp.18 S., R. 1 W.; Tps.23 S., Rs.4 and 4½ W.; Tp. 24 S., R.4½ W.; Tp 23 S., R.5 W.of the Salt Lake Base and Meridian, Utah.

Walter A. Stumm, Chainm

Melvin D. Heist, Chai...

Subscribed and sworn to before me this 7th day of May, 1906.

SEAL

Harvey W. Hurst
U.S.Deputy Surveyor.

We, I, Homer A. Shelley and

do solemnly swear that ~~I~~ we will well and truly perform the duties of moundmen in the establis of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surve the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 and 2 W. Tp.18 S., R. 1 W.; Tps.23 S., Rs.4 and 4½ W.; Tp.24 S., R.4½ W.; T 23 S., R. 5 W.of the Salt Lake Base and Meridian, Utah.

Homer A. Shelley, Mound

, Mound

Subscribed and sworn to before me this 7th day of May, 1906

SEAL

Harvey W. Hurst
U.S.Deputy Surveyor

We, I, Horace L. Allred and

do solemnly swear that ~~I~~ we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surv the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S,Rs.1 and 2 W.; 18 S., R. 1 W.; Tps. 23 S., Rs.4 and 4½ W.; Tp.24 S., R.4½ W.; Tp. S., R. 5 W.of the Salt Lake Base and Meridian, Utah.

Horace L. Allred

, Axm

Subscribed and sworn to before me this 7th day of May, 1906

SEAL

Harvey W. Hurst
U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well and t perform the duties of flagman according to instructions given me, to the best of my skill and ability, i the Subdivision of T.20 S., Rs.1 and 2 W.; Tps.19 S., Rs.1 survey of W.; Tp.18 S.R. 1 W.; Tps.23 S., Rs.4 and 4½ W.; Tp.24 S., W.;Tp.23 S., R. 5 W.of the Salt Lake Base and Meridian, Utah.

Will L. White, Flag

Subscribed and sworn to before me this 7th day of May, 1906.

SEAL

Harvey W. Hurst
U.S.Deputy Surveyor.

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SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS

Survey commenced,May 7,1906,and executed with the instrument described in book "A",of this survey.

I know the instrument to be in adjustment from recent observations made May 1 and 2,1906,and recorded in book " V ",of this survey.

I begin at the reestablished cor.of secs.16 and 21, heretofore described.

At 6 h.56m.,a.m.,l.m.t.,I set off 39°04'N.on lat.arc, 16°41'N.on decl.arc,and determine a meridian with the solar.

Thence I run along the west bdy.of sec.16 a distance equal to the E.bdy,setting two sets of corners:

N.0°01'W.,along W.bdy.sec.16,

Ascend over rocky land,through dense artemisia'

18.00 Spur,projects E.

Descend.

26.50 Hollow,50 ft.deep,course E.

Ascend.

34.00 Ridge,bears E.and W.

Descend.

38.90 Set a limestone,24x9x4 ins.,18 ins.in the ground,for ¼ sec.cor.for sec.17,marked ¼ on W.face,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

40.50 A distance equal to one-half length of E.bdy.of sec.16.

Set a limestone,18x8x4 ins.,12 ins.in the ground,for ¼ sec.cor.for sec.16,marked ¼ on E.face,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.

Pits impracticable.

49.00 Hollow,75 ft.deep,course N.E.

Ascend.

56.00 Spur,projects E.

Descend.

63.00 Hollow,100 ft.deep,course S.E.

Ascend.

71.50 Spur,projects E.

Descend.

SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS	
74.50	Hollow,50 ft.deep,course E.
	Ascend.
78.00	Spur,projects E.
	Descend.
78.90	Set a limestone,20x12x9 ins.,15 ins.in the ground,for cor.of secs.8 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.
81.00	A distance equal to the length of E.bdy.sec.16. Set a limestone,24x8x5 ins.,18 ins.in the ground,for cor.of secs.9 and 16,marked with 4 notches on S.and E. edges,and raise a mound of stone,2 ft.base,1½ ft.high, E.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber; undergrowth,sage.
	Mountainous land on 81.00 chs.

	From the cor.of secs.9 and 16,I run
	East,on a random line,bet.secs.9 and 16.
38.45	Intersect the reestablished ¼ sec.cor.bet.secs.9 and 16, heretofore described.
	Thence I run
	West,on a true line,
	Bet.secs.9 and 16.
	Ascend over rocky land,through dense artemisia.
4.00	Spur,projects S.E.
	Descend.
19.00	Hollow,75 ft.deep,course S.E.
	Ascend.
38.45	The cor.of secs.9 and 16.
	Land,rolling.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Soil,rocky,3rd.rate.

No timber; undergrowth sage.

Dense undergrowth on 38.45 chs.

N.0°01'W.,along W.bdy.of sec.9.

Descend over rocky land,through dense artemisia.

.40 Hollow,50 ft.deep,course E.

Ascend.

3.00 Spur,projects E.

Descend.

9.75 Hollow,100 ft.deep,course S.E.

Ascend.

15.00 Spur,projects S.E.

Descend.

19.00 Hollow,50 ft.deep,course S.E.

Ascend.

29.00 Ridge,bears N.W.and S.E.

Descend.

37.90 Set a sandstone,20x12x7 ins.,15 ins.in the ground,for ¼ sec.cor.for sec.8,marked ¼ on W.face,and raise a mound o stone,2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.

40.54½ A distance equal to half of the E.bdy.of sec.9.

Hollow,100 ft.deep,course E.

Set a sandstone,20x12x5 ins.,15 ins.in the ground,for ¼ sec.cor.for sec.9 ,marked ¼ on E.face,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.

Pits impracticable.

Abrupt ascent.

43.50 Spur,projects E.

Descend.

47.75 Hollow,100 ft.deep,course S.E.

Abrupt ascent.

54.00 Ridge,bears N.E.and S.W.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Abrupt descent.
67.00	Hollow,200 ft.deep,course N.E.
	Abrupt ascent.
77.90	Set a limestone,15x14x6 ins.,10 ins.in the ground,for cor.of secs.5 and 8,marked with 5 notches on S.and 3 notches on E.edges,and raise a mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Pits impracticable.
81.09	A distance equal to the east bdy.of sec.9.
	Set a limestone,24x10x8 ins.,18 ins.in the ground,for cor. of secs.4 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,E.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber; undergrowth sage.
	Mountainous land on 81.09 chs.
	May 7: At this cor.I set off 16°44'N.on decl.arc,and at 11h.56m.,a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°06'N.

	East,on a random line,bet.secs.4 and 9.
37.73	Intersect the reestablished ¼ sec.cor.bet.secs.4 and 9, heretofore described.
	Thence I run
	West,on a true line,bet.secs.4 and 9.
	Ascend over rocky land,through dense artemisia.
37.73	The cor.of secs.4 and 9.
	Land,rolling.
	Soil,rocky,3rd.rate.
	No timber; undergrowth sage.
	Dense undergrowth on 37.73 chs.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Knowing the line bet.secs.4 and 5 will not close within limits on the N.bdy.of the Tp.,I run from the cor.of secs. 4 and 9.

N.0°01'W.,on a true line,

bet.secs.4 and 5.

Ascend over rocky land,through dense artemisia.

.35 Ridge,bears N.E.and S.W.

Descend.

3.50 Hollow,75 ft.deep,course N.E.

Ascend.

6.80 Spur,projects N.E.

Descend.

)9.30 Hollow,75 ft.deep,course N.E.

Ascend.

12.70 Spur,projects N.E.

Descend.

25.50 Hollow,150 ft.deep,course N.E.

Abrupt ascent.

31.80 Ridge,bears N.E.and S.W.

Descend.

36.81 Set a limestone,20x7x5 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.for sec.5,marked $\frac{1}{4}$ on W.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.

Pits impracticable.

40.00 Set a limestone,18x8x8 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.for sec.4,marked $\frac{1}{4}$ on E.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,E.of cor.

Pits impracticable.

43.75 Hollow,150 ft.deep,course N.E.

Abrupt ascent.

49.00 Spur,projects E.

Descend.

66.50 Hollow,100 ft.deep,course E.

Ascend.

80.58 Intersect N.bdy.of Tp.,2.80 chs.E.of the cor.of secs. 4-5-32 and 33,heretofore described.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Set a limestone,18x10x7 ins.,12 ins.in the ground,for closing cor.to secs.4 and 5,marked C C on S.with 4 grooves on E.and 2 grooves on W.faces,and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.
	Pits impracticable. I destroy all marks on the cor.of secs.4-5-32 and 33,pertaing to T.20 S.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber; undergrowth,sage.
	Mountainous land on 80.58 chs.
	May 7,1906.

	May 8: At 6h.56m.,a.m.,l.m.t.,I set off 39°02'N.on lat.arc 16°58'N.on decl.arc,and determine a meridian with the solar,at the standard cor.of secs.31 and 32,heretofore described on the Fourth Standard Parallel South.
	Thence I run N.0°01'W.bet.secs.31 and 32.
	Ascend over broken and rocky land,through dense artemisia.
9.00	Spur,projects S.E.
	Descend.
16.00	Hollow,50 ft.deep,course S.E.
	Ascend.
21.00	Ridge,bears N.W.and S.E.
	Descend.
28.00	Hollow,100 ft.deep,course S.E.
	Ascend.
	Enter scattering cedar and pinon timber.
34.40	Ridge,bears N.W.and S.E.
	Descend.
39.75	Leave timber.
40.00	Set a limestone,18x10x6 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face,from which
	A pinon,10 ins.diam.,bears S.31°E.,61 lks.dist., marked ¼ S 32 B T .
	A cedar,5 ins.diam.,bears S.26°W.,23 lks.dist., marked ¼ S 31 B T.

SUBDIVISIONS OF T.20 S., R.1 W.

CHAINS

42.00 Hollow, 100 ft. deep, course E.

Ascend.

49.90 Ridge. bears E. and W.

Descend.

55.00 Hollow, 100 ft. deep, course N.E.

Ascend.

Enter scattering cedar and pinon timber.

60.00 Spur, projects N.E.

Descend.

63.00 Hollow, 50 ft. deep, course E.

Ascend.

66.50 Spur, projects E.

Descend.

70.00 Hollow, 100 ft. deep, course E.

Ascend.

76.85 Spur, projects E.

Abrupt descent.

80.00 Set a limestone, 20x12x4 ins., 15 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked with 1 notch on S. and 5 notches on E. edges, from which

A cedar 6 ins. diam., bears N.33°E., 14 lks. dist., marked T 20 S R 1 W S 29 B T.

A cedar, 5 ins. diam., bears S.61°E', 45 lks. dist., marked T 20 S R 1 W S 32 B T.

A cedar, 10 ins. diam., bears S.77°W., 15 lks. dist., marked T 20 S R 1 W S 31 B T.

A cedar, 6 ins. diam., bears N.77°W., 29 lks. dist., marked T 20 S R 1 W S 30 B T.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon; undergrowth sage.

Mountainous land on 80.00 chs.

SUBDIVISIONS OF T.20 S., R.1 W.

CHAINS	
	East, on a random line, bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.88	Intersect N. and S. line, 7 lks. S. of the reestablished cor. of secs. 28-29-32 and 33.
	Thence I run
	S. 89° 57' W., on a true line,
	Bet. secs. 29 and 32.
	Ascend over rocky land, through dense artemisia.
11.50	Ridge, bears N.W. and S.E.
	Descend.
19.50	Hollow, 75 ft. deep, course S.E.
	Ascend.
34.00	Spur, projects S.E.
	Descend.
39.94	Junction of Hollows, from W. and N.W. 75 ft. deep, course S.E.
	Set a limestone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
	Ascend along bottom of hollow.
60.00	Leave hollow, course from N.W. to E.
	Abrupt ascent.
65.00	Enter scattering cedar and pinon timber.
79.88	The cor. of secs. 29-30-31 and 32.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, scattering cedar and pinon: undergrowth, sage.
	Mountainous land on 79.88 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 true line,
	Bet. secs. 30 and 31.
	Ascend abruptly through heavy cedar and pinon timber.
18.00	Junction of ridges, bearing N.E. and S.E. with ridge bearing W.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Ascend along ridge, bearing E. and W.

Leave heavy timber, bears E. and W.

Enter scattering cedars and pinons.

40.00 Set a limestone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which

A pinon, 8 ins. diam., bears N. 62°W., 36 lks. dist., marked $\frac{1}{4}$ S 30 B T.

A pinon, 5 ins. diam., bears S. 27°30'W., 54 lks. dist., marked $\frac{1}{4}$ S 31 B T.

May 8: At this cor. I set off 17°00'N. on decl. arc, and at 11h. 56m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°03'N.

41.50 Leave ridge, bears S.W. and E.

Abrupt descent.

Enter heavy cedar and pinon timber.

52.50 Hollow, 150 ft. deep, course N.E.

Abrupt ascent.

63.50 Rocky spur, projects N.

Descend abruptly over steep, broken and rocky north slope.

117.00 Hollow, 200 ft. deep, course N.E.

Ascend abruptly over broken and rocky land.

177.50 Devide of mountain, bears N.W. and S.E.

Leave timber, bears N.W. and S.E.

Descend over broken sandstone ledges, through scattering cedar and pinon timber.

201.00 Hollow, 150 ft. deep, course S.W.

Abrupt ascent.

225.50 Ridge, bears N.E. and S.W.

Descend abruptly over broken and rocky land.

295.02 Intersect E. bdy. of T.20 S., R.2 W., 35.75 chs. S. of the cor. of secs. 25-30-31 and 36, which is a sandstone, 10x10x8 ins. above ground, marked and witnessed as described by the surveyor general.

Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for closing cor. to secs. 30 and 31, marked C C on E., with 1

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

groove on S.and 5 grooves on N.faces,from which

A pinon,8 ins.diam.,bears S.63°E.,37 lks.dist.,

marked T 20 S.,R 1 W S 31 B T.

A pinon,8 ins.diam.,bears N.46°E.,19 lks.dist.,

marked T 20 S R 1 W S 30 B T

I destroy all marks on the cor.of secs.25-30-31 and 36 that pertain to R.1 W.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 295.02 chs.

CONNECTION LINE

From the closing cor.of secs.30 and 31,just established.

I run

North,along west bdy.of sec.30.

Ascend over rocky land,through scattering cedar and pinon timber.

3.00 Ridge,bears N.E.and S.W.

Abrupt descent.

19.00 Hollow,200 ft.deep,course S.W.

Abrupt ascent.

35.75 The cor.of secs.25 and 36,T.20 S.,R.2 W.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 35.75 chs.

May 8,1906.

May 9,:At 6h.56m.,a.m.,l.m.t.,I set off 39°03'N.on lat. arc,17°14'N.on decl.arc,and determine a meridian with the polar,at the cor.of secs.29-30-31 and 32.

Thence I run

N.0°01'W.,bet.secs.29 and 30.

Descend through heavy cedar and pinon timber.

3.50 Hollow,100 ft.deep,course W.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Leave heavy timber,bears E.and W.

Abrupt ascent.

Enter scattering cedar and pinon timber.

7.50 Spur,projects E.

Descend.

12.00 Hollow,100 ft.deep,course E.

Ascend.

19.00 Ridge,bears E.and W.

Abrupt descent.

27.00 Wood road,bears E.and W.in hollow,200 ft.deep,course E.

Abrupt ascent.

34.00 Spur,projects S.E.

Descend.

38.00 Hollow,150 ft.deep,course S.E.

Abrupt ascent.

40.00 Set a sandstone,18x10x5 ins.,12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,from which

A cedar,10 ins.diam.,bears S.59°E.,39 lks.dist., marked $\frac{1}{4}$ S 29 B T.

A cedar,4 ins.diam.,bears S.74°W.,47 lks.dist., marked $\frac{1}{4}$ S 30 B T.

45.80 Ridge,bears N.W.and S.E.

Descend.

50.00 Hollow,75 ft.deep,course E.

Ascend.

53.00 Spur,projects E.

Descend.

59.00 Hollow,75 ft.deep,course S.E.

Ascend.

63.50 Spur,projects S.E.

Descend.

70.00 Hollow,100 ft.deep,course S.E.

Ascend. Leave timber.

78.00 Ridge,bears N.W.and S.E.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Descend.
80.00	Set a limestone,20x10x6 ins.,15 ins.in the ground,for cor.of secs.19-20-29 and 30,marked with 2 notches on S. and 5 notches on E.edges,from which
	A pinon,8 ins.diam.,bears N.59°W.,17 lks.dist., marked T 20 S R 1 W S 19 B T.
	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.

	N.89°57'E.,on a random line,bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N.and S.line,5 lks.N.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	S.89°59'W.,on a true line,
	Bet.secs.20 and 29.
	Ascend abruptly over rocky land,through dense artemisia.
40.01	Set a limestone,18x10x5 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.
40.50	Ridge,bears N.W.and S.E.
	Descend.
45.00	Hollow,75 ft.deep,course S.E.
	Abrupt ascent.
80.02	The cor.of secs.19-20-29 and 30.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 80.02 chs.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

Knowing the line bet.secs.19 and 30 will not close withi limits on the W.bdy.of the Tp.,I run

West,on a true line,

Bet.secs.19 and 30.

Ascend abruptly over rocky land.

2.00 Ridge,bears N.W.and S.E.

Abrupt descent.

5.00 Enter heavy cedar and pinon timber,bearing N.W.and S.E.

10.00 Hollow,150 ft.deep,course S.E.

Abrupt ascent.

21.00 Ridge,bears N.W.and S.E.

Descend.

30.75 Hollow,100 ft.deep,course S.E.

Abrupt ascent.

35.00 Spur,projects S.E.

Descend.

38.00 Hollow,75 ft.deep,course S.E.

Abrupt ascent.

40.00 Set a quartzite stone,18x10x8 ins.,12 ins.in the ground, for ¼ sec.cor.,marked ¼ on N face,from which

A pinon,6 ins.diam.,bears S.87°E.,52 lks.dist., marked ¼ S 30 B T.

A pinon,5 ins.diam.,bears N.49°E.,80 lks.dist., marked ¼ S 19 B T.

May 9 : At this cor.I set off 17°16'N.on decl.arc,and at 11h.56m.,a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°03'N.

45.50 Mountain ridge,bears N.and S.

Abrupt descent over broken land.

94.00 Hollow,400 ft.deep,course S.E.

Abrupt ascent over broken land.

125.00 Rocky spur,projects S.E. Abrupt descent.

164.00 Hollow,250 ft.deep,course S.E. Abrupt ascent.

199.50 Devide of mountain,bears N.W.and S.E.

Leave heavy timber,bears N.W.and S.E.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Begin abrupt descent over broken sandstone ledges and through scattering cedar and pinon timber.
285.00	Hollow,600 ft.below top of devide,course S.W.
	Ascend.
295.29	Intersect E.bdy.of T.20 S.R.2 W.,35.60 chs.S.of the cor. of secs.19-24-25 and 30,which is a limestone,11x8x8 ins. above ground,marked and witnessed as described by the surveyor general.
	Set a sandstone,20x10x8 ins.,15 ins.in the ground,for closing cor.to secs.19 and 30,marked C C on E.,with 2 grooves on S.and 4 grooves on N.faces,from which
	A pinon,6 ins.diam.,bears N.88°E.,7 lks.dist., marked T 20 S R 1 W S 19 B T.
	A pinon,7 ins.diam.,bears S.18°E.,51 lks.dist., marked T 20 S R 1 W S 30 B T.
	I destroy all marks on the cor.of secs.19-24-25 and 30, that pertain to R.1 W.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 295.29 chs.
	Connection Line.
	From the closing cor.of secs.19 and 30,just established.
	I run North,along W.bdy.of sec.19.
	Ascend abruptly over rocky land,through scattering cedar and pinon timber.
13.00	Rocky ridge,bears N.E.and S.W.
	Abrupt descent.
24.00	Hollow,200 ft.deep,course S.W.
	Abrupt ascent.
75.60	The cor.of secs.24 and 25,T.20 S.,R.2 W.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.

SUBDIVISIONS OF T.20 S.,R.1 W.

N

Mountainous land on 35.60 chs.

May 9,1906.

May 10: At 6h.56m.,a.m.,l.m.t.,I set off 39°03'N.on lat. arc,17°30'N.on decl.arc,and determine a meridian with th solar,at the cor.of secs.19-20-29 and 30.

Thence I run

N.0°01'W.,bet.secs.19 and 20.

Descend over rocky land,through scattering cedar and pinon timber.

1.00 Head of hollow,course E.

Ascend.

5.00 idge,bears E.and W.

Abrupt descent.

17.50 Hollow,150 ft.deep,course N.E.

Abrupt ascent.

29.00 Ridge,bears N.E.and S.W.

Abrupt descent.

39.00 Hollow,75 ft.deep,course N.E.

Ascend.

40.00 Set a limestone,15x13x9 ins.,10 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face,from which

A pinon,12 ins.diam.,bears West,12 lks.dist., marked ¼ S 19 B T.

A pinon,8 ins.diam.,bears S.47°E.,32 lks.dist., marked ¼ S 20 B T.

44.00 Spur,projects N.E.

Descend.

48.00 Hollow,150 ft.deep,course N.E.

Ascend.

53.00 Spur,projects N.E.

Descend.

57.50 Hollow,150 ft.deep,course N.E.

Ascend.

68.00 Spur,projects N.E.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Descend.
74.00	Hollow,200 ft.deep,course E.
	Abrupt ascent.
80.00	Set a quartzite stone,18x11x8 ins.,12 ins.in the ground, for cor.of secs.17-18-19 and 20,marked with 3 notches on S.and 5 notches on E.edges,from which
	A cedar,4 ins.diam.,bears N.56°E.,83 lks.dist., marked T 20 S R 1 W S 17 B T.
	A cedar,5 ins.diam.,bears S.80°E.,40 lks.dist., marked T 20 S R 1 W S 20 B T.
	A cedar,6 ins.diam.,bears S.47°W.,21 lks.dist., marked T 20 S R 1 W S 19 B T.
	A cedar,7 ins.diam.,bears N.34°W.,81 lks.dist., marked T 20 S R 1 W S 18 B T.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

	N.89°59'E.,on a random line,bet.secs.17 and 20.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S.line,5 lks.S.of the cor.of secs.17 and 20.
	Thence I run
	S.89°57'W.,on a true line,
	Bet.secs.17 and 20.
	Ascend over rocky land,through dense artemisia.
26.00	Spur,projects S.E.
	Descend.
32.00	Hollow,75 ft.deep,course S.E.
	Abrupt ascent.
40.00	Set a limestone,20x6x5 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

56.00 Enter scattering cedar and pinon timber.

80.00 The cor.of secs.17-18-19 and 20.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon; undergrowth,sage.

Mountainous land on 80.00 chs.

Knowing the line bet.secs.18 and 19 will not close within limits on the W.bdy.of the Tp.,I run

West,on a true line,

Bet.secs.18 and 19.

Ascend abruptly along steep S.slope,through scattering cedar and pinon timber.

19.00 Enter heavy cedar and pinon timber,bears N.and S.

37.00 Ridge,bears N.and S.

Descend.

40.00 Set a limestone,20x12x8 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,from which

A cedar,15 ins.diam.,bears S.45°W.,3 lks.dist., marked $\frac{1}{4}$ S 19 B T.

A pinon,5 ins.diam.,bears N.48°E.,17 lks.dist., marked $\frac{1}{4}$ S 18 B T.

May 10: At this cor.I set off 17°32'N.on decl.arc,and at 11h.56m.,a.m.,l.mlt.,observe the sun on the meridian; the resulting lat.is 39°04'N.

41.00 Hollow,100 ft.deep,course N.W.

Ascend.

45.50 Spur,projects N.W.

Abrupt descent.

74.00 Hollow,300 ft.deep,course N.E.

Abrupt ascent.

94.50 Mountain ridge,bears N.W.and S.E.

Descend abruptly over broken land.

124.00 Hollow,250 ft.deep,course S.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Abrupt ascent.
137.50	Rocky spur,projects S.
	Abrupt descent.
152.50	Hollow,300 ft.deep,course S.E.
	Abrupt ascent over broken and rocky land.
230.50	Devide of mountain,bears N.and S.
	Leave heavy timber,bears N.and S.
	Descend abruptly over broken sandstone ledges,through scattering cedar and pinon timber.
264.00	Hollow,500 ft.below devide,course S.W.
	Abrupt ascent.
290.50	Rocky ridge,bears N.E.and S.W.
	Descend.
295.46	Intersect E.bdy.of T.20 S.,R.2 W.,35.46 chs.S.of the cor. of secs.13-18-19 and 24,which is a limestone,15x10x10 ins. above ground,marked and witnessed as described by the surveyor general.
	Set a sandstone,15x11x9 ins.,10 ins.in the ground,for closing cor.to secs.18 and 19,marked C C on E.with 3 grooves on N.and S.faces,from which
	A pinon,8 ins.diam.,bears S.38°E.,11 lks.dist., marked T 20 S R 1 W S 19 B T.
	A pinon,9 ins.diam.,bears N.35°E.,74 lks.dist., marked T 20 S R 1 W S 18 B T.
	I destroy all marks on the cor.of secs.13-18-19 and 24 that pertain to R.1 W.
	Land,mountainous.
	Soil,rocky,3rd.and 4th.rate.
	Timber,cedar and pinon.
	Mountainous land on 295.46 chs.

Connection-Line.

From the closing cor.of secs.18 and 19,just established I run

North,along west.bdy.of sec.18.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
	Descend abruptly over rocky land,through scattering cedar and pinon timber.
15.50	Hollow,200 ft.deep,course S.W.
	Abrupt ascent.
35.46	The cor.of secs.13 and 24,T.20 S.,R.2 W.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 35.46 chs.
	May 10,1906.

	May 11: At 6h.56m.,a.m.,l.m.t.,I set off 39°04'N.on lat. arc,17°46'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.17-18-19 and 20.
	Thence I run
	N.0°01'W.,bet.secs.17 and 18.
	Ascend over rocky land,through heavy cedar and pinon timber.
7.00	Spur,projects E.
	Abrupt descent.
13.50	Hollow,150 ft.deep,course E.
	Abrupt ascent.
22.00	Ridge,bears E.and W.
	Abrupt descent.
30.75	Hollow,150 ft.deep,course N.E.
	Leave timber,bears N.E.and S.W.
	Ascend.
33.65	Spur,projects E.
	Descend.
36.50	Hollow,150 ft.deep,course S.E.
	Ascend.
40.00	Rocky spur,projects S.E.
	Point for cor.falls on a limestone boulder 4x2x2 ft.above ground,I cut a cross (X),at exact point for ¼ sec.cor. mark ¼ on W.side of cross and raise a mound of stone,

SUBDIVISIONS OF T.20 S.,R.1W.

CHAINS	
	2 ft.base, 1½ ft.high, W.of cor.
	Pits impracticable.
	Descend.
44.00	Enter scattering cedar and pinon timber.
48.00	Hollow, 100 ft.deep, course S.E.
	Abrupt ascent.
54.00	Ridge, bears N.E.and S.W.
	Enter heavy cedar and pinon timber, bears N.E.and S.W.
	Abrupt descent.
80.00	Set a sandstone, 20x10x4 ins., 15 ins.in the ground, for cor.of secs.7-8-17 and 18, marked with 4 notches on S.and 5 notches on E.edges, from which
	A cedar 15 ins.diam., bears N.47°E., 71 lks.dist., marked T 20 S R 1 W S 8 B T.
	A pinon, 6 ins.diam., bears S.80°E., 44 lks.dist., marked T 20 S R 1 W S 17 B T.
	A cedar 12 ins.diam., bears N.3°W., 62 lks.dist., marked T 20 S R 1 W S 7 B T.
	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.

	N.89°57'E., on a random line, bet.secs.8 and 17.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N.and S.line, 3 lks.S.of the cor.of secs. 8-and 9.
	Thence I run
	S.89°56'W., on a true line,
	Bet.secs.8 and 17.
	Ascend abruptly over rocky land, through dense artemisia.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

.00 Ridge, bears N.W. and S.E.

Descend.

32.00 Bend in hollow, 150 ft. deep, course from S.W. to S.E.

Ascend.

36.50 Spur, projects S.

Descend.

38.00 Hollow, 100 ft. deep, course S.E.

Ascend abruptly.

40.03 Set a limestone, 24x12x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

60.00 Enter heavy cedar and pinon timber, bears N.E. and S.W.

64.00 Ridge, bears N.E. and S.W.

Abrupt descent.

74.00 Leave timber, bears N. and S.

76.50 Hollow, 100 ft. deep, course N.

Ascend.

79.00 Enter heavy cedar and pinon timber, bears N. and S.

80.06 The cor. of secs. 7-8-17 and 18.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon; undergrowth, sage.

Mountainous land on 80.06 chs.

Knowing the line bet. secs. 7 and 18 will not close within limits on the W. bdy of the Tp., I run

West, on a true line,

Bet. secs. 7 and 18.

Ascend through heavy cedar and pinon timber.

4.80 Ridge, bears N. and S.

Descend.

10.25 Hollow, 75 ft. deep, course N.

Ascend.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
19.50	Spur, projects N.
	Descend.
24.80	Hollow, 200 ft. deep, course N.E.
	Ascend abruptly over broken land.
40.00	Set a limestone, 18x8x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon, 12 ins. diam., bears S.23°E., 40 lks. dist., marked ¼ S 18 B T.
	A pinon, 7 ins. diam., bears N.69°30'W., 22 lks. dist., marked ¼ S 7 B T.
	May 11: At this cor. I set off 17°48'N. on decl. arc, and at 11h'56m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°05'N.
66.00	Ridge, bears N.E. and S.W.
	Abrupt descent.
73.00	Hollow, 200 ft. deep, course N.E.
	Abrupt ascent.
101.00	Mountain ridge, bears N. and S.
	Abrupt descent over broken land.
130.00	Hollow, 200 ft. deep, course S.
	Abrupt ascent.
165.50	Rocky ridge, bears N.W. and S.E.
	Abrupt descent.
203.00	Hollow, 250 ft. deep, course S.E.
	Abrupt ascent.
230.50	Devide of mountain, bears N. and S.
	Leave heavy timber, bears N. and S.
	Begin abrupt descent over broken sandstone ledges, through scattering cedar and pinon timber.
278.00	Head of hollow, 400 ft. below devide, course S.W.
	Ascend.
293.00	Rocky ridge, bears N.E. and S.W.
	Descend.
295.68	Intersect E. bdy. of T.20 S., R.2 W., 35.32 chs. S. of the cor.

CHAINS

of secs.7-12-13 and 18,which is a sandstone,9x9x9 ins.a above ground,marked and witnessed as described by the surveyor general.

Set a sandstone,20x8x8 ins.,15 ins.in the ground,for closing cor.to secs.7 and 18,marked C C on E.,with 4 grooves on S.and 2 grooves on N.faces,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.

Pits impracticable.

I destroy all marks on the cor.of secs.7-12-13 and 18 that pertain to R.1 W.

Land,mountainous.

Soil,rocky,3rd.and 4th.rate.

Timber,cedar and pinon.

Mountainous land on 295.68 chs.

Connection Line

From the closing cor.for secs.7 and 18,just established I run

North,along the west bdy.of sec.7.

Descend abruptly over broken sandstone ledges.

14.75 Hollow,300 ft.deep,course S.W.

Abrupt ascent.

35.32 The cor.of secs.12 and 13,T.20 S.,R.2 W.

Land,mountainous.

Soil,rocky,4th.rate.

No timber.

Mountainous land on 35.32 chs.

May 11,1906.

May 12:At 6h.56m.,a.m.,l.m.t.,I set off 39°05'N.on lat. arc,18°01'N.on decl.arc,and determine a meridian with the solar,at the cor.of secs.7-8-17 and 18.

Thence I run

N.0°01'W.,bet.secs.7 and 8.

Descend through heavy cedar and pinon timber.

1.00 Leave timber,bears N.E.and S.W.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
5.00	Head of hollow,75 ft.deep,course N.E.
	Ascend.
7.00	Enter heavy cedar and pinon timber,bears N.E.and S.W.
12.50	Spur,projects N.E.
	Descend.
15.00	Leave timber,bears N.E.and S.W.
20.10	Hollow,200 ft.deep,course N.E.
	Abrupt ascent.
33.75	Spur,projects E.
	Descend.
38.00	Hollow,150 ft.deep,course E.
	Abrupt ascent.
40.00	Set a sandstone,20x9x5 ins.,15 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.
53.00	Enter scattering cedar and pinon timber.
68.65	Ridge,bears E.and W.
	Abrupt descent.
79.00	Leave timber.
80.00	Set a limestone,24x12x5 ins.,18 ins.in the ground,for cor.of secs.5-6-7 and 8,marked with 5 notches on S.and E. edges,from which
	A pinon,12 ins.diam.,bears S.22°30'E.,119 lks.dist., marked T 20 S R 1 W S 8 B T .
	A pinon,6 ins.diam.,bears S.32°W.,116 lks.dist., marked T 20 S R 1 W S 7 B T.
	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.

SUBDIVISIONS OF T.20 S.,R.1 W.

N

Mountainous land on 80.00 chs.

N.89°56'E.,on a random line,bet.secs.5 and 8.

40.00 Set temp. ¼ sec.cor.

80.04 Intersect the cor.of secs.5 and 8.

Thence I run

S.89°56'W.,on a true line,

Bet.secs.5 and 8.

Ascend abruptly over rocky land,through dense artemisia.

11.00 Ridge,bears N.E.and S.W.

Abrupt descent.

18.00 Hollow,150 ft.deep,course N.E.

Abrupt ascent.

33.00 Same ridge,bears N.W.and S.E.

Abrupt descent.

40.02 Set a limestone,15x10x8 ins.,10 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.

49.00 Enter scattering cedar and pinon timber.

62.00 Hollow,200 ft.deep,course S.E.

Abrupt ascent.

73.00 Leave timber.

80.04 The cor.of secs.5-6-7 and 8.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 80.04 chs.

Knowing the line bet.secs.6 and 7 will not close within limits on the west bdy.of the Tp.,I run

West,on a true line,

Bet.secs.6 and 7.

Ascend over steep,broken and rocky north slope.

5.00 Enter heavy cedar and pinon timber,bearing N.and S.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS	
40.00	Set a limestone,24x10x6 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,from which A pinon,15 ins.diam.,bears N.28°E.,22 lks.dist., marked ¼ S 6 B T. A cedar,18 ins.diam.,bears S.59°W.,14 lks.dist., marked ¼ S 7 B T. May 12: At this cor.I set off 18°03'N.on decl.arc,and at 11h.56m.,a.m.,l.mlt,observe the sun on the meridian,the resulting lat.is 39°06'N.
91.00	Spur,projects N. Descend.
95.50	Hollow,100 ft.deep,course N. Ascend.
106.00	Mountain ridge,bears N.and S. Abrupt descent.
126.00	Hollow,200 ft.deep,course S. Abrupt ascent.
153.00	Ridge,bears N.E.and S.W. Abrupt ascent.
194.00	Hollow,300 ft.deep,course N.E. Abrupt ascent over broken land.
263.00	Devide of mountain,bears N.and S. Abrupt descent.
295.90	Intersect E.bdy.of T.20 S.,R.2 W.,35.27 chs.S.of the cor. of secs.1-6-7 and 12,which is a sandstone,10x6x5 ins. above ground,marked and witnessed as described by the surveyor general. Set a limestone,15x8x7 ins.,10 ins.in the ground,for closing cor.of secs.6 and 7,marked C C on E.with 5 grooves on S.and 1 groove on N.faces,from which A pinon,15 ins.diam.,bears S.32°E.,74 lks.dist., marked T 20 S R 1 W S 7 B T. A cedar,15 ins.diam.,bears N.5°E.,57 lks.dist., marked T 20 S R 1 W S 6 B T.

SUBDIVISIONS OF T.20 S.,R.1 W.

CHAINS

I destroy all marks on the cor.of secs.1-6-7 and 12,that pertain to R.1 W.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 295.90 chs.

Connection Line

From the closing cor.of secs.6 and 7,just established I run

North,along W.bdy.of sec.6.

Descend through heavy cedar and pinon timber.

24.00 Hollow,150 ft.deep,course W.

Leave timber,bears E.and W.

Ascend.

35.27 The cor.of secs.1 and 12,T.20 S.,R.2 W.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 35.27 chs.

May 12,1906.

May 13: At 6h.56m.,a.m.,l.m.t.,I set off 39°06'N.on lat. arc,18°16'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.5-6-7 and 8.

Knowing the line bet.secs.5 and 6 will not close within limits on the N.bdy.of the Tp.,I run

N.0°01'W.,on a true line,

Bet.secs.5 and 6.

Descend over rocky land,through dense artemisia.

4.00 Enter scattering cedar and pinon timber.

9.00 Leave timber.

27.50 Hollow,100 ft.deep,course S.E.

Ascend.

33.00 Ridge,bears E.and W.

SUBDIVISIONS OF T.20 S.,R.2 W.

CHAINS	
	Descend.
40.00	Set a limestone,24x9x4 ins.,18 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor. Pits impracticable.
40.25	Hollow,100 ft.deep,course E. Ascend.
49.00	Spur,projects S.E.
	Descend.
	Enter scattering cedar and pinon timber.
69.00	Hollow,150 ft.deep,course S.E.
	Abrupt ascent.
79.00	Leave timber.
83.89	Intersect N.bdy.of Tp.,2.83 chs.E.of the cor.of secs. 5-6-31 and 32,heretofore described.
	Set a limestone,32x15x7 ins.,24 ins.in the ground,for closing cor.of secs.5 and 6,marked C C on S.with 5 groove on E.and 1 groove on W.faces,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,S.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 83.89 chs.

May 13,1906.

General Description.

This township is situated on what is locally known as "Dry Mountain".

The eastern portion of this survey is about 200 ft.higher than the Sevier River;the soil is rocky and is covered wi a dense growth of artemisia.

Coming west from the eastern portion the country rises rapidly and the eastern slope is broken by many hollows, while the western portion is mountainous in character cut by fewer and deeper hollows.

GENERAL DESCRIPTION OF T.20 S.,R.1 W.

The devide rises about 2000 ft.above above the eastern portion of this survey.

The soil is generally rocky and with the exception of the two eastern tiers of sections covered with a heavy growth of cedar and pinon timber.

There is no water,settlers or mineral found on this survey.

Henry H. Hirst
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 final affidavits see book "Z[29]", Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

For final affidavits see book "Z[29]" Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-336

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavits see book "Z 29" Tp.23 S., R. 5 W.

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

United States Deputy Surve

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 19

The foregoing field notes of the survey of the Subdivisional lines of Tp.20 S Range 1 West of the Salt Lake Base and Meridian, Utah,

executed by Harvey D.Heist and Earl V.Woolley under their contract No. 291, dated June 3, 190 5, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull

United States Surveyor Gene

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

United States Surveyor Gen

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4—679.

" 12"

BOOK A-336

FILED
OCT 17 1906

FIELD NOTES

RE
OF THE SURVEY OF THE

N-O-R-T-H B-O-U-N-D-A-R-Y

of

Township No. 19 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,*

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *1905*

Survey commenced June 7, *1906*

Survey completed June 8, *1906*

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Scale 1-00000

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White, Flagman

For preliminary affidavits see book "Y" Tp.20 S., R. 1 W.

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Volume

#

R0336

BOOK A-336

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

..... *Chainme*

..... *Chainme*

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

SEAL

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

..... *Moundme*

..... *Moundme*

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

SEAL

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

..... *Axme*

..... *Axme*

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

SEAL

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

..... *Flagm*

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

SEAL

6—151

RESURVEY OF THE N.BDY.OF T.19 S.,R.1 W.

CHAINS

Survey commenced,June 7,1906,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: Not finding the corner of secs.4.5.32 and 33, I begin at the cor.of secs.3-4-33 and 34,which is a pine post,set in a mound of stone,with marks obliterated I verify this cor.by running east along the line bet. secs.3 and 34,finding the ¼ sec.cor.bet.secs.3 and 34 and the cor.of secs.2-3-34 and 35,on this line. Therefore I reestablish cor.of secs.3,4,33 and 34 at original point as follows:

Set a limestone,15x12x7 ins.,10 ins.in the ground,for reestablished cor.of secs.3-4-33 and 34,marked with 3 n notches on E.and W.edges,and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.

Pits impracticable.

Approximate latitude 39°12'N.,longitude 111°57'W.

At 3h.58m.,p.m.,l.m.t.,I set off 39°12'N.on lat.arc, 22°45'N.on decl.arc,and determine a meridian with the solar,and mark a point thereof,on a stone firmly set in the ground,5 chs.N.of the cor.

June 7,1906.

June 8: At 2h.26m.,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 6 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 0.4 ins.east of the mark determined by

RESURVEY OF N.BDY.OF T.19 S.,R.1 W.

CHAINS	
	the solar.
	At 6h.59m.,a.m.,l.m.t.,I set off 39°12'N.on lat.arc, 22°49'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 0.5 ins.east of the meridian established by the Polaris observation.
	The solar apparatus,by p.m.and a.m.observations,defines positions for meridians,respectively about 0'21" west and 0'26" east of the meridian established by the Polaris observation; therefore,I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the truemeridian,at 7h.15m.,a.m. is N.16°45'W.,;the angle thus determined gives the mag. decl.16°45'E.
	Thence I run
	West,resurveying bet.secs.4 and 33.
	Ascend over rocky land,through dense sage brush.
19.75	Begin abrupt ascent,bears N.and S.
40.00	After diligent search,no trace can be found of the ¼ sec.c
	Set a limestone,15x12x5 ins.,10 ins.in the ground,for reestablished 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.
80.00	After diligent search no trace can be found of the cor.of secs.4-5-32 and 33,which was set from the line bet.secs. 4 and 5 on a previous survey.
	Set a limestone,18x13x6 ins.,12 ins.in the ground,for reestablished cor.of secs.4-5-32 and 33,marked with 4 notches on E.and 2 notches on W.edges,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	Land,rolling and mountainous.
	Soil,rocky,3rd.rate.
	No timber; undergrowth,sage.
	Mountainous land,or dense undergrowth on 80.00 chs.

RESURVEY OF THE N.BDY.OF T.19 S.,R.2 W.

CHAINS

For general description,see,subdivisions of T.19 S.,R.1 W.

For table of latitudes and departures,see N.bdy.of T.19 S.,R.1 W.

Harvey D. Hirst
U.S.Deputy Surveyor.

Volume
#
R0336

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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 .....

For final affidavits see book "Z^{26}" Tp.23 S., R. 4½ W.

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

For final affidavits see book "Z^{26}" Tp.23 S., R. 4½ W.

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—151

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Set a limestone,15x8x7 ins.,10 ins.in the ground,for cor.to secs.5 and 8,marked with 5 notches on S.and E. edges,and raise a mound of stone,2 ft.base,1½ ft.high, E.of cor.
	Pits impracticable.
80.00	Ridge,bears E.and W.
	Set a limestone,18x8x8 ins.,12 ins.in the ground,for cor of secs.6 and 7,marked with 5 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,3rd.rate.
	Timber,cedar and pinon; undergrowth,oak and sage.
	Mountainous land on 80.00 chs.

	Knowing the line bet.secs.5 and 6 will not close within limits on the N.bdy.of the Tp.,I run
	North,on a true line,
	along E.bdy.sec.6.
	Descend abruptly over broken and rocky land.
27.50	Hollow,75 ft.deep,course E.
	Ascend.
31.00	Spur,projects S.E.
	Descend.
37.72	A distance equal to the distance north to the ¼ sec.cor. bet.secs.4 and 5,less the distance between the cor.to sec 5 and 8 and secs.6 and 7.
	Set a limestone,15x10x5 ins.,10 ins.in the ground,for ¼ sec.cor.for sec.5,marked ¼ on E.face,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.
40.00	Set a limestone,18x12x4 ins.,12 ins.in the ground,for ¼ sec.cor.for sec.6,marked with ¼ on W.face,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

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4—679.

"13"
Z
BOOK A-336

FILED
OCT 17 1906

FIELD NOTES

OF THE SURVEY OF THE

N-O-R-T-H B-O-U-N-D-A-R-Y

of

Township No. 19 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah.

AS SURVEYED BY

arvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,s*

nder ~~the~~ their *Contract No.* 291, *dated* June 3, *1905*

urvey commenced June 8, *1906*

urvey completed June 8, *1906*

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BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, ... Chainman

Melvin D. Haint, ...

Homer A. Shelley, ... Roundman

Horace L. Allred, ... Axman

Will L. White, ... Flagman

For preliminary affidavits see book "Z" Tp. 20 S., R. 1 W.

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BOOK A-336

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

..... , *Chainm*

..... , *Chainm*

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

.....

SEAL

.....

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

..... , *Moundm*

..... , *Mound*

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

.....

SEAL

.....

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

..... , *Axm*

..... , *Axm*

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

.....

SEAL

.....

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

..... , *Flag*

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

.....

SEAL

.....

6—151

NORTH BOUNDARY OF T.19 S.,R.1 W.

CHAINS

Survey commenced, June 8, 1906 and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment, from recent observations made June 7 and 8, 1906, and recorded in book "Z 12", of this survey.

I begin at the reestablished cor. of secs. 4-5-32 and 33, heretofore described and run

West, bet. secs. 5 and 32.

Ascend abruptly over rocky land, through dense sage brush.

26.00 Enter scattering cedar and pinon timber.

40.00 Set a limestone, 18x8x6 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.

49.20 Rocky spur, projects N.E.

Descend.

54.00 Enter heavy cedar and pinon timber, bears N. and S.

68.00 Hollow, 100 ft. deep, course N.E.

Abrupt ascent.

80.00 Set a limestone, 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 5-6-31 and 32, marked with 5 notches on E. and 1 notch on W. edges, from which

A pinon, 10 ins. diam., bears N.20°E., 15 lks. dist., marked T 18 S R 1 W S 32 B T.

A pinon, 8 ins. diam., bears N.40°W., 14 lks. dist., marked T 18 S R 1 W S 31 B T.

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; undergrowth, sage.

Mountainous land on 80.00 chs.

June 8: At this cor. I set off 22°50' N. on decl. arc, and

N.BDY.OF T.19 S.,R.1 W.

CHAINS	
	at 11h.59m.,a.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 39°12'N.
	West,bet.secs.6 and 31.
	Ascend abruptly over rocky land,through heavy cedar and pinon timber.
20.85	Rocky ridge,bears N.and S.
	Abrupt descent.
39.50	Leave timber,bears N.W.and S.E.
40.00	Set a limestone,28x12x10 ins.,21 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,from which
	A pinon,10 ins.diam.,bears N.52°E.,23 lks.dist., marked ¼ S 31 B T.
	A cedar,15 ins.diam.,bears S.4°W.,91 lks.dist., marked ¼ S 6 B T.
43.00	Enter basin,bears N.E.and S.W.
	Over level land,through dense sage brush.
61.00	Leave basin,bears N.W.and S.E.
	Ascend through scattering cedar and pinon timber.
69.00	Rocky ridge,bears N.and S.
	Abrupt descent.
95.50	Foot of abrupt descent,bears N.and S.
	Leave timber.
	Enter "Jap Valley".
	Over level land,through dense sage brush.
196.00	Leave "Jap Valley",bears N.and S.
	Ascend abruptly over broken and rocky land,through dense oak,mountain mahoganies and scattering cedar and pinon timber,along steep north slope.
287.25	Intersect E.bdy.of T.19S.,R.2 W.,30.75 chs.S.1°00'E., of the cor.of Tps.18 and 19 S.,Rs.1 and 2 W.,heretofore described.
	Set a sandstone,20x16x4 ins.,15 ins.in the ground,for closing cor.to Tps.18 and 19 S.,R.1 W.,marked [illegible]

NORTH BOUNDARY OF T.19 S.,R.1 W.

CC 1 W,on E.,18S on N.,19 S.on S.,with 6 grooves on N.S.and E.faces,from which

A pinon,5 ins.diam.,bears S.13°E.,29 lks.dist., marked T 19 S R 1 W S 6 B T:

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

Pits impracticable.

I destroy all marks on the cor.of Tps.18 and 19 S.,Rs. 1 and 2 W.,that pertain to R.1 W.

Land,rolling and mountainous.

Soil,sandy loam on 100.50 chs,2nd.rate.

balance,rocky,3rd.and 4th.rate.

Timber,cedar and pinon. undergrowth,sage.

Mountainous land or dense undergrowth on 287.25 chs.

June 8,1906

BOUNDARIES OF T.19 S.,R.1 W.
Latitudes,departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		Chs.	Chs,	Chs.	Chs.	Chs.
S. dy.	West	453.20				453.20
E. dy. T 20 S.R.1W.	North	31.10	31.10			
E. dy. T 19 S.R.1W.	N.1°00'W.	449.40	449.33			7.84
N.Bdy. T.19 S.R.1 W.	East	447.25			447.25	
Subs. Bet.3 & 4 to S.Bdy.	S.1°39'E.	480.90		480.70	13.84	
Convergen					0.56	
			480.43	480.70	461.65	461.04
				480.43	461.04	
	Error in lat.and dep.			0.27	0.61	

For ge eral description,see subdivisions of T.19 S.,R.1 W.

Harvey D. Hurst
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

arking the lines and corners described in the foregoing field notes of the survey of _____

_____

ıowing the respective capacities in which they acted:

For final affidavits see book "Z 25" Tp.23 S., R. 4½ W. _____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all

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 _____

'or final affidavits see book "Z 25" Tp.23 S., R. 4½ W. _____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

scribed 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 Surveyo
solemnly swear that, in pursuance of a contract received from
United States Surveyor General for _____, bearing date c
_____ day of _____, 190 , I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Su
General for _____, the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of
For final affidavit see book "Z 25" Tp.23 S., R. 4½ W.
_____
_____
_____ of the
_____ meridian, in the _____ of _____, which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sol
swear that all the corners of said survey have been established and perpetuated in strict accordan
the Manual of Surveying Instructions, and the special written instructions of the United States Su
General for _____ and in the specific manner described in the field notes,
the foregoing are the original field notes of such survey.

_____
United States Deputy Su

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

_____
_____

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18,

The foregoing field notes of the survey of the North Boundary of Township N
19 South, Range No.1 West of the Salt Lake Base and Meridian. Ut
_____
_____
_____
_____
_____
executed by their Harvey D.Heist and Earl V.Woolley
under his contract No. 291; dated June 3, 190 5, hav
critically examined, and the necessary corrections and explanations ~~made~~, the said field notes,
surveys they describe, are hereby approved.

United States Surveyor

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

_____
United States Surveyor

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BOOK A-336

FIELD NOTES

RE
OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S

of

Township No. 18 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyors*

under ~~his~~ their *Contract No.* 291, *dated* June 3, *190* 5

Survey commenced June 18, *190* 6

Survey completed June 21, *190* 6

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8.39.42

3.79.71

BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A.Stumm,	Chainman.
Melvin D.Heist,	"
Homer A.Shelley,	Moundman
Horace L.Allred,	Axman
Will L.White	Flagman

For preliminary affidavits see book "Z^1" Tp.20 S., R. 1 W.

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BOOK A-336

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PRELIMINARY OATHS OF ASSISTANTS.

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

..... , *Chainm*

..... , *Chain*

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

SEAL

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

..... , *Moundm*

..... , *Moundm*

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

SEAL

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

..... , *Axm*

..... , *Axm*

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

SEAL

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

..... , *Flag*

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

SEAL

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Survey commenced, June 18.1906 and executed with the inst - ument 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:

I begin at the reestablished cor. of secs.3-4-33 and 34, heretofore described on the S.bdy. of the Tp., in approximate latitude 39°12'N., longitude 111°57'W.

At 4h.01m., p.m., l.m.t., I set off 39°12'N. on lat. arc, 23°25'N. on decl. arc, and determine a meridian with the solar, and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

June 18, 1906.

June 19: At 1h.43m., a.m., lm.t., I observe Polaris at east rn 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 6 a.m., l.m.t., 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 0.5 ins. east of the mark determined by the solar.

At 7h.01m., a.m., l.m.t., I set off 39°12'N. on lat. arc, 23°27' N. on decl. arc, and determine a meridian with the solar and mark a point thereof, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.5 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'21" west and east of the meridian established by the Polaris observation; therefore I conclude that the adjustments of

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.15m., a.m. is N.16°45'W., the angle thus determined gives the mag. decl. 16°45'E.

Thence I run

North, on retracement line, bet. secs. 33 and 34; at 40.05 chs. fall 3.50 chs. E. of the ¼ sec. cor. and at 80.05 chs. fall 5.77 chs. E. of the cor. of secs. 27-28-33 and 34. The course of the first part of this line is therefore N.5°00'W. and the distance 40.20 chs.; the course of the last part of the line is N.3°15'W., and the distance 40.06 chs.; I continue north, retracing bet. secs. 27 and 28; at 40.00 chs. no trace can be found of the ¼ sec. cor. and at 80.00 chs. fall 2.96 chs. E. of the cor. of secs. 21-22-27 and 28, which is in a dilapidated condition.

The course of this line is therefore N.2°07'W., and the dis. 80.06 chs.

North, retracing bet. secs. 21 and 22; at 40.00 chs. no trace can be found of the ¼ sec. cor. and at 79.98 chs. fall 2.80 chs. E. of the cor. of secs. 15-16-21 and 22.

The course of this line is therefore N.2°00'W., and the distance 80.04 chs.

North, retracing bet. secs. 15 and 16; at 40.00 chs. no trace can be found of the ¼ sec. cor. and at 79.52 chs. fall 285 lks. E. of the cor. of secs. 9-10-15 and 16. The course of thi line is therefore N.2°03'W., and the distance 79.57 chs.

North, retracing bet. secs. 9 and 10; at 40.00 chs. no trace can be found of the ¼ sec. cor., and at 80.24 chs., fall 2.96 chs. E. of the cor. of secs. 3-4-9 and 10. The course of this line is therefore N.2°07'W., and the distance 80.29 chs.

North, retracing bet. secs. 3 and 4., at 40.62 chs. fall 1.77 chs. E. of the ¼ sec. cor. bet. secs. 3 and 4 and at 79.00 chs. fall 7.61 chs. E. of the cor. of secs. 3-4-33 and 34, on the N. bdy. of the Tp. The course of the first half of this line i N.2°30'W. and the distance 40.66 chs.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

The course of the last half of this line is N.8°39'W.and the distance 38.82 chs.

June. 19,1906.

June 20: At 7h.01m.,a.m.,l.m.t.,I set off 39°12'N.on lat arc.,23°28'N.on decl.arc,and determine a meridian with the solar,at the reestablished cor.of secs.3-4-33 and 34 heretofore described on the S.bdy.of the Tp.,

Thence I run

N.5°00'W.,resurveying bet.secs.33 and 34.

Descend gradually over rolling land,through dense sage

40.20 Intersect the ¼ sec.cor.bet.secs.33 and 34,which is a pine post,set in a mound of earth,with marks nearly obliterated.

Set a limestone,20x11x6 ins.,15 ins.in the ground,for reestablished 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.

I destroy all traces of the old cor.in building the new.

Thence N.3°15'W.,bet.secs.33 and 34,resurveying.

40.06 Intersect the cor.of secs.27-28-33 and 34,which is a pine post,in mound of earth,with marks nearly obliterated.

Set a limestone,15x10x5 ins.,10 ins.in the ground,for reestablished cor.of secs.27-28-33 and 34,marked with 1 notch on S.and 3 notches on E.edges,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Pits impracticable.
I destroy all traces of the old cor.
Land,rolling.

Soil,gravelly,3rd.rate.

No timber. undergrowth,sage.

Dense undergrowth on 80.26 chs.

West,resurveying,bet.secs.28 and 33.

Ascend over rolling land,through dense sage brush.

40.00 No trace can be found of the old ¼ sec.cor.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Set a limestone,15x10x5 ins.,10 ins.in the ground,for reestablished 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.
	Land,rolling.
	Soil,gravelly,3rd.rate.
	No timber; undergrowth,sage.
	Dense undergrowth,on 40.00 chs.

	N.2°07'W.,resurveying bet.secs.27 and 28.
	Descend gradually over rolling land,through dense sage brush.
12.00	Wash,1.00 ch.wide,15 ft.deep,course E.
40.03	Proportionate measurement,
	Set a Set a sandstone,18x10x7 ins.,12 ins.in the ground, for reestablished 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.
	After diligent search,no trace can be found of the old ¼ sec.cor.
50.50	Road,bears E.and W.
80.06	Set a limestone,18x10x8 ins.,12 ins.in the ground,for reestablished cor.of secs.21-22-27 and 28,marked with 2 notches on S.and 3 notches on E.edges,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.
	All traces of the old cor.are destroyed by the building of this cor.
	Land,rolling.
	Soil,gravelly,3rd.rate.
	No timber; undergrowth,sage.
	Dense undergrowth on 80.06 chs.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1W.

CHAINS

West, on resurvey line, bet. secs. 21 and 28.

Ascend over rocky land, through dense sage brush.

40.00 No trace can be found of the $\frac{1}{4}$ sec. cor.

Set a limestone, 18x12x5 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

Land, rolling.

Soil, rocky, 3rd. rate.

No timber; undergrowth, sage.

Dense undergrowth on 40.00 chs.

N. 2°00'W., resurveying bet. secs. 21 and 22.

Descend gradually over rolling land, through dense sage brush.

7.00 Wash, 1.00 ch. wide, 20 ft. deep, course E.

26.00 Wood road, bears N.E. and S.W.

40.02 Proportional measurement,

Set a limestone, 20x10x8 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

After diligent search, no trace trace can be found of the old $\frac{1}{4}$ sec. cor.

49.75 Wash, 75 lks. wide, 15 ft. deep, course E.

80.04 Intersect the cor. of secs. 15-16-21 and 22, which is a pine post, set in a mound of stone, with marks nearly obliterated. I reestablish this cor. as follows:

Set a limestone, 18x10x4 ins., 12 ins. in the ground, for reestablished cor. of secs. 15-16-21 and 22, marked with 18S. on NE., 1 W., on S.E. face, 3 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of co .

Pits impracticable.

I destroy all traces of the old cor.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Land, rolling.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Dense undergrowth on 80.04 chs.
	June 20: At this cor. I set off 23°27'N. on decl. arc, and at 12h. 01m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°15'N.

	West, resurveying bet. secs. 16 and 21.
	Ascend over rocky land, through dense sage brush.
40.00	No trace can be found of the ¼ sec. cor.
	Set a limestone, 20x7x6 ins., 15 ins. in the ground, for reestablished 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.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Dense undergrowth on 40.00 chs.

	N. 2°03'W., resurveying bet. secs. 15 and 16.
	Descend gradually over rocky land, through dense sage brush.
39.79	Proportionate measurement,
	Set a limestone, 12x10x7 ins., 8 ins. in the ground, for reestablished 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.
40.75	Wash, 1.00 ch. wide, 15 ft. deep, course E.
79.57	Intersect the cor. of secs. 9-10-15 and 16, which is a pine post, set in a mound of earth, with marks nearly obliterated I reestablish this cor. as follows:
	Set a limestone, 18x10x8 ins., 12 ins. in the ground, for reestablished cor. of secs. 9-10-15 and 16, marked with 4 notches on S. and 3 notches on E. edges, and raise a mound of

CHAINS	
	stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	I destroy all traces of the old sec. cor.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Dense undergrowth, sage, on 79.57 chs.

	N. 2°07' W., resurveying bet. secs. 9 and 10.
	Descend over rocky land, through dense sage brush.
15.00	Hollow, 50 ft. deep, course E.
	Ascend over rolling land.
40.15	Proportional measurement,
	Set a limestone, 20x8x8 ins., 15 ins. in the ground, for reestablished ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, West of cor.
	Pits impracticable.
	After diligent search no trace can be found of the old ¼ sec. cor.
63.75	Wash, 25 lks. wide, 5 ft. deep, course E.
80.29	Intersect the cor. of secs. 3-4-9 and 10, which is a pine post, set in a mound of stone, with marks nearly obliterated
	I reestablish this cor. as follows:
	Set a limestone, 15x7x5 ins., 10 ins. in the ground, for reestablished cor. of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	I destroy all traces of the old cor.
	Land, rolling.
	Soil, rocky, 3rd. rate.
	No timber; undergrowth, sage.
	Dense undergrowth on 80.29 chs.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	N.2°30'W.,resurveying bet.secs.3 and 4.
	Ascend over rolling land,through dense artemisia.
4.50	Wash,75 lks.wide,10 ft.deep,course E.
40.66	Intersect the ¼ sec.cor.bet.secs.3 and 4,which is a pine post,set in a mound of stone,with marks nearly obliterated.
	I reestablish this cor.as follows;
	Set a limestone,18x12x7 ins.,12 ins.in the ground,for reestablished 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.
	I destroy all traces of the old cor.
	Thence I run
	N.8°39'W.,resurveying bet.secs. 3 and 4.
	Over rolling and rocky land,through dense artemisia.
38.82	Intersect the cor.of secs.3-4-33 and 34,on the N.bdy.of the Tp.,which is a quartzite stone,10x8x5 ins.above ground,marked and witnessed as described by the surveyor general.
	Land,rolling.
	Soil,rocky,3rd.rate.
	No timber; undergrowth,sage.
	Dense undergrowth on 79.48 chs.
	June 20,1906.

	June 21: At 7h.01m.,a.m.,l.m.t.,I set off 39°16'N.on lat.arc,23°28'N.on decl.arc,and determine a meridian with the solar at the reestablished cor.of secs.9-10-15 and 16.
	Thence I run
	West,resurveying,bet.secs.9 and 16.
	Ascend over rolling and rocky land,through dense sage brush.
40.00	No trace can be found of the ¼ sec.cor.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Set a limestone,24x8x8 ins.,18 ins.in the ground,for reestablished $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.

Pits impracticable.

42.00 Begin abrupt ascent,bears N.and S.

80.00 No trace can be found of the cor.of secs.8-9-16 and 17.

Set a limestone,18x11x6 ins.,12 ins.in the ground,for reestablished 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,$1\frac{1}{2}$ ft.high,W.of cor.

Pits impracticable.

Land,rolling and mountainous.

Soil,rocky,3rd.rate.
No timber; undergrowth,sage.

Dense undergrowth on 80.00 chs.

South,resurveying,bet.secs.16 and 17.

Ascend over rocky land,through dense sage brush.

4.50 Rocky spur,projects E.

Descend.

17.00 Hollow,75 ft.deep,course E.

Ascend.

21.00 Spur,projects E.

Descend.

35.00 Hollow,150 ft.deep,course E.

Abrupt ascent.

40.00 Rocky spur,projects E.

No trace can be found of the $\frac{1}{4}$ sec.cor.

Set a limestone,18x12x3 ins ,12 ins.in the ground,for reestablished $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.

Pits impracticable.

Land,mountainous.

Soil,rocky,3rd.rate.

No timber; undergrowth,sage on 40.00 chs.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	From the reestablished cor.of secs.8-9-16 and 17,I run North,on retracement line bet.secs.8 and 9;at 40.00 chs. no trace can be found of the ¼ sec.cor.and at 80.00 chs. no trace can be found of the cor.of secs.4-5-8 and 9, I continue my line north bet.secs.4 and 5 and can find no cor.until at 157.24 chs.fall 9.53 chs E.of the cor. of secs.4-5-32 and 33 on the N.bdy.of the Tp.,which is a limestone,12x6x6 ins.above ground,marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.3°28'W.,and the distance 157.53 chs.
	The proportionate measurement,gives for the length of the line bet.secs.8 and 9 ,78.64 chs.and bet.secs.4 and 5, 78.89 chs.
	June 21: At this cor.I set off 23°28'N.on decl.arc,and at 12h.01m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°17'N.
	Thence I run
	S.3°28'E.,resurveying bet.secs.4 and 5.
	Ascend abruptly over rocky land,through scattering cedar and pinon timber.
11.00	Ridge,bears N.E.and S.W.
	Abrupt descent.
16.50	Head of hollow,course N.E.
	Abrupt ascent.
33.50	Ridge,bears E.and W.
	Leave timber.
	Abrupt descent.
37.00	Head of hollow,course E.
	Ascend.
39.57	Proportionate measurement
	Set a quartzite stone,18x12x8 ins.,12 ins.in the ground, for reestablished ¼ sec.cor.,marked ¼ on W.face,and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

CHAINS	
	Pits impracticable.
	After diligent search, no trace can be found of the old $\frac{1}{4}$ sec.cor.
41.00	Spur, projects E.
	Descend.
45.25	Head of hollow, course E.
	Ascend.
52.50	Spur, projects E.
	Abrupt descent.
	Enter scattering cedar and pinon timber.
58.50	Hollow, 150 ft.deep, course E.
	Abrupt ascent.
65.50	Ridge, bears N.W.and S.E.
	Enter heavy cedar and pinon timber, bears N.W.and S.E.
	Abrupt descent.
78.89	Proportionate measurement
	Set a limestone, 20x10x9 ins., 15 ins.in the ground, for reestablished cor.of secs.4-5-8 and 9, marked with 5 notches on S.and 4 notches on E.edges, from which
	A pinon, 8 ins.diam., bears N.34°E., 19 lks.dist., marked T 18 S R 1 W S 4 B T.
	A cedar, 18 ins diam., bears S.40°E., 16 lks.dist., marked T 18 S R 1 W S 9 B T.
	A cedar, 6 ins.diam., bears S.83°W., 10 lks.dist., marked T 18 S R 1 W S 8 B T.
	A cedar, 7 ins.diam., bears N.11°W., 27 lks.dist., marked T 18 S R 1 W S 5 B T.
	After diligent search, no trace can found of old cor.
	Land, mountainous.
	Soil, rocky, 3rd.rate.
	Timber, cedar and pinon.
	Mountainous land on 78.89 chs.

RESURVEY OF SUBDIVISIONS OF T.18 S., R. 1 W.

CHAINS	
	S.3°28'E., resurveying bet.secs.8 and 9.
	Descend through heavy cedar and pinon timber.
.50	Hollow, 200 ft.deep, course S.E.
	Abrupt ascent.
	Leave timber, bears N.W. and S.E.
8.00	Ridge, bears E. and W.
	Enter heavy cedar and pinon timber, bears E. and W.
	Descend.
16.00	Hollow, 100 ft.deep, course S.E.
	Ascend.
22.00	Spur, projects S.E.
	Descend along broken east slope.
39.32	Proportionate measurement
	Set a limestone, 18x10x4 ins., 12 ins. in the ground, for reestablished ¼ sec.cor., marked ¼ on W. face, from which
	A cedar, 10 ins.diam., bears N.54°E., 14 lks.dist., marked ¼ S 9 B T.
	A cedar, 12 ins.diam., bears S.85°W., 7 lks.dist., marked ¼ S 8 B T.
	After diligent search no trace can be found of the old ¼ sec.cor.
42.00	Hollow, 75 ft.deep, course E.
	Ascend.
55.00	Spur, projects E.
	Leave heavy timber, bears E. and W.
	Descend.
58.00	Hollow, 10[illegible] ft.deep, course E.
	Ascend.
62.00	Spur, projects E.
	Descend.
69.50	Hollow, 150 ft.deep, course N.E.
	Leave timber, abrupt ascent.
78.64	The reestablished cor. of secs.8-9-16 and 17.
	Land, mountainous.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 78.64 chs.

From the reestablished cor.of secs.4-5-8 and 9,I run

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

40.00 No trace can be found of the $\frac{1}{4}$ sec.cor.

81.89 Fall 1.67 chs.S.of the reestablished cor.of secs.3-4-8 and 9. The course of this line is therefore N.88°50'E., and the distance 81.90 chs.
Thence I run

S.88°50'W.,on a resurvey line,

Bet.secs.4 and 9.

Ascend over rocky land,through dense sage brush.

40.95 Proportionate measurement.

Set a limestone,18x9x5 ins.,12 ins.in the ground,for reestablished $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.

Pits impracticable.
No trace can be found of the old $\frac{1}{4}$ sec.cor.
45.00 Enter scattering cedar and pinon timber.

47.00 Begin abrupt ascent,bears N.and S.

75.00 Rocky spur,projects S.E.

Descend abruptly along steep rocky south slope.

81.90 The reestablished cor.of secs.4-5-8 and 9.

Land,rolling and mountainous.

Soil,rocky,3rd.rate.
Timber,cedar and pinon ; undergrowth,sage.

Mountainous land or dense undergrowth,on 81.90 chs.

From the reestablished cor.of secs.4-5-8 and 9,I run

West,resurveying,bet.secs.5 and 8.

Descend through heavy cedar and pinon timber.

.75 Hollow,200 ft.deep,course S.E.

Abrupt ascent.

16.00 Ridge,bears N.and S.

Abrupt descent.

RESURVEY OF SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
31.00	Hollow,150 ft.deep,course S.E.
	Abrupt ascent.
40.00	No trace can be found of the ¼ sec.cor.
	Set a limestone,20x9x4 ins.,15 ins.in the ground,for reestablished ¼ sec.cor.,marked ¼ on N.face,from which
	A pinon,4 ins.diam.,bears N.34°W.,45 lks.dist., marked ¼ S 5 B T.
	A cedar,5 ins.diam.,bears S.21°E.,91 lks.dist., marked ¼ S 8 B T.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 40.00 chs.
	June 21,1906.

For general description,see subdivisions of T.18 S.,R. 1 W.

Harvey D. Hirst
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 final affidavits see book "Z28 " Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

r final affidavits see book "Z28" Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavit see book "Z[28]" Tp.23 S., R.5 W.

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

.....
United States Deputy Su

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1

The foregoing field notes of the re survey of the Subdivisional lines of Towns No.18 South, Range No.1 West of the Salt Lake Base and Meridian, U

executed by Harvey D.Heist and Earl V.Woolley
under his contract No. 291, dated June 3, 190 5, hav
critically examined, and the necessary corrections and explanations made, the said field notes, a re surveys they describe, are hereby approved.

Thomas Kuel
United States Surveyor Ge

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

.....
United States Surveyor Ge

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" 17 "
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BOOK A-336

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY~~ OF THE

N-O-R-T-H B-O-U-N-D-A-R-Y

of

Township No. 18 South,

Range No. 1 West,

and

E-A-S-T B-O-U-N-D-A-R-Y

of

Township No. 18 South,

Range No. 2 West

Of the Salt Lake Base and *Meridian,*

in the state of Utah.

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyor,*

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *190*5

Retracement ~~Survey~~ *commenced* June 22, *190*6

Retracement ~~Survey~~ *completed* June 22, *190*6

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NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm,	Chainman
Helvin D. Heist,	"
Homer A. Shelley,	Moundman
Horace L. Allred,	Axman
Will L. White,	Flagman

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BOOK A-336

INDEX DIAGRAM.

Township 18 South, *Range* 1 West

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Walter A.Stumm and Melvin D.Heist

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will l chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the we will report the true distances to all notable objects, and the true lengths of all lines that we a measuring, to the best of our skill and ability, and in accordance with instructions given us, in the Retracement of N.bdy.T.18 S., R. 1 W.; E.bdy.T.18 S., R. 2 W.; an part of E. and W.bdys.T.24 S., R.4½ W.of the Salt Lake Base and M an, Utah.

Walter A. Stumm, Cha.

Melvin D. Heist, Cha.

Subscribed and sworn to before me this 22d day of June, 1906

SEAL

Harvey Al. Tfist
U.S.Deputy Surveyor.

WE, I, Homer A.Shelley and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establ of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the retracement of N.bdy.T.18 S., R. 1 W.; E.bdy.T.18 S., R. 2 W.; an part of E. and W.bdys.T.24 S., R. 4½ W.of the Salt Lake Base and ridian, Utah

Homer A. Shelley, Mou.

, Mou.

Subscribed and sworn to before me this 22d day of June, 1906

SEAL

Harvey Al. Tfist
U.S.Deputy Surveyor.

WE, I, Horace L.Allred and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the Retracement of N.bdy.T.18 S., R. 1 W.; E.bdy.T.18 S., R. 2 W.; part of E.and W.bdys.T.24 S., R. 4½ W.of the Salt Lake Base and ian, Utah.

Horace L. Allred

Subscribed and sworn to before me this 22d day of June, 1906.

SEAL

Harvey Al. Tfist
U.S.Deputy Surveyor.

I, Will L.White, do solemnly swear that I will well a perform the duties of flagman according to instructions given me, to the best of my skill and abilit Retracement of N.bdy.T.18 S., R. 1 W.; E.bdy.T.18 S., R. ~~[illegible]~~ and part of E. and W.bdys.T. 24 S., R.4½ W.of the Salt L and Meridian, Utah.

Will L. White, F

Subscribed and sworn to before me this 22d day of June, 1906.

SEAL

Harvey Al. Tfist
U.S.Deputy Surveyor.

RETRACEMENT OF NORTH BDY. OF T. 18 S., R. 1 W.

CHAINS

Survey commenced, June 22, 1906 and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made June 18 and 19, 1906, and recorded on book "Z" 16 ", of this survey.

At 7h. 02m., a.m., l, m.t., I set off 39°17'N. on lat. arc, 25° 28'N. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 3-4-33 and 34, heretofore described, on the N. bdy. of the Tp.,

Thence I run

S. 88°29'W., retracing bet. secs. 4 and 33.

39.30 Intersect ¼ sec. cor. bet. secs. 4 and 33, which is a limestone, 10x8x6 ins. above ground, marked and witnessed as described by the surveyor general.

78.95 Intersect the cor. of secs. 4-5-32 and 33, heretofore described.

S. 88°29'W., retracing bet. secs. 5 and 32.

42.82 Intersect the ¼ sec. cor. bet. secs. 5 and 32, which is a limestone, 18x10x3 ins. above ground, marked and witnessed as described by the surveyor general.

Thence West, on retracement line

39.65 Intersect the cor. of secs. 5-6-31 and 32, which is a limestone, 16x10x6 ins., above ground, marked and witnessed as described by the surveyor general.

West, retracing bet. secs. 6 and 31.

38.40 Fall 37 lks. N. of the ¼ sec. cor. bet. secs. 6 and 31, which is a limestone, 10x8x6 ins. above ground, marked and witnessed as described by the surveyor general.

261.00 Fall 2.50 chs N. of the closing cor. of Tps. 17 and 18 S., R. 1 W., which is a limestone, 9x8x4 ins. above ground, marked and witnessed as described by the surveyor general.

The course of this line is therefore S. 89°27'W.

RETRACEMENT OF E.BDY.OF T.18 S.,R.2 W.

CHAINS	
	At the cor.of Tps.17 and 18 S.,R.1 W.,I set off 23°27'N. on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39°17'N.
	Thence I run
	South,retracing bet.secs.1 and 6.
1.30	Intersect the ¼ sec.cor.bet.secs1 and 6,which is a sandstone,10x5x5 ins.above ground,marked and witnessed as described by the surveyor general.
41.46	Intersect the cor.of secs.1-6-7 and 12,which is a granite stone,12x7x6 ins.above ground,marked and witnessed as described by the surveyor general.
	South,retracing bet.secs.7 and 12.
40.40	Intersect the ¼ sec.cor.bet.secs.7 and 12,which is a granite stone,24x17x12 ins.above ground,marked and witnessed as described by the surveyor general.
80.95	Intersect the cor.of secs.7-12-13 and 18,which is a granite stone,12x7x7 ins.above ground,marked and witness as described by the surveyor general.
	South,retracing bet.secs.13 and 18.
40.38	Intersect the ¼ sec.cor.bet.secs.13 and 18,which is a sandstone,10x7x6 ins.above ground,marked and witnessed as described by the surveyor general.
80.80	Intersect the cor.of secs.13-18-19 and 24,which is a sandstone,18x10x7 ins.above ground,marked and witnessed as described by the surveyor general.
	South,retracing bet.secs.19 and 24.
40.18	Intersect the ¼ sec.cor.bet.secs.19 and 24,which is a sandstone,8x7x6 above ground,marked and witnessed as described by the surveyor general.
81.20	Intersect the cor.of secs.19-24-25 and 30,which is a sandstone,10x7x6 ins.above ground,marked and witnessed as described by the surveyor general.

RETRACEMENT OF E.BDY.OF T.18 S.,R.2 W.

South, retracing bet.secs.25 and 30.

39.40 Intersect the $\frac{1}{4}$ sec.cor.bet.secs.25 and 30, which is a sandstone, 10x6x5 ins.above ground, marked and witnessed as described by the surveyor general.

79.00 Intersect the cor.of secs.25-30-31 and 36, which is a sandstone, 12x6x6 ins.above ground, marked and witnessed as described by the surveyor general.

South, retracing bet.secs.31 and 36.

39.95 Intersect the $\frac{1}{4}$ sec.cor.bet.secs.31 and 36, which is a sandstone, 18x12x10 ins.above ground, marked and witnessed as described by the surveyor general.

80.04 Intersect the cor.of Tps.17 and 18 S.,R.2 W., heretofore described.

June 22,1906'

BOUNDARIES OF T.18 S.,R.1 W.

Latitudes, departures and closing errors.

Line Designated	Course	Distance chs.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
South Bdy.	West,	447.25				447.25
E.Bdy. T.19 S.,R.2 W.	N.1°00'W.	30.75	30.75			.54
E.Bdy. T.18 S.,R.2 W.	North	443.45	443.45			
N.Bdy. T.18 S.,R.1 W.	N.89°27'E.	261.00	2.50		261.00	
	East	39.65			39.65	
	N.88°29'E.	121.77	3.22		121.73	
Subs. Bet.secs.3	& 4, S.8°39'E.	38.82		38.38	5.83	
" "	, S.2°30'E.	40.66		40.62	1.77	
9	"10, S.2°07'E.	80.29		80.25	2.96	
15	"16, S.2°03'E.	79.57		79.53	2.84	
21	"22, S.2°00'E.	80.04		79.99	2.79	
27	"28, S.2°07'E.,	80.06		80.01	2.96	
33	"34, S.3°15'E.	40.06		40.02	2.27	
	S.5°00'E.	40.20		40.04	3.50	
Convergency					.53	
			479.92	478.84	447.83	447.79
			478.84		447.79	
Error in lat.and dep.			1.08		0.04	

For general description, see subdivisions of T.18 S.,R.1 W.

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:

For final affidavits see book "Z[23]" T. 24 S., R. 4½ W., *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all 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.*

For final affidavits see book "Z[23]" Tp.24 S., R.4½ W., *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 affidavit see book "Z" 23 " Tp.24 S.. R. 4½ W.

.....

.....

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

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

United States Deputy Surveyor.

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

SEAL.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 18, 190

The foregoing field notes of the ~~survey of~~ Retracement of North Boundary Township No.18 South, Range No.1 West and East Boundary Township No.18 S. Range No.2 West, of the Salt Lake Base and Meridian, Utah,

.....

.....

.....

executed by Harvey E.Holst and Earl V.Woolley under his contract No. 221, dated June 3. 1905, 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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4—679.

" 18"
Z
BOOK A-336

FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S

of

Township No. 18 South,

Range No. 1 West,

Of the Salt Lake Base and *Meridian,*

in the state of Utah

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, *United States Deputy Surveyors,*

Under ~~his~~ their *Contract No.* 291, *dated* June 3, *1905*

Survey commenced June 23, *1906*

Survey completed June 28, *1906*

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BOOK A-336

NAMES AND DUTIES OF ASSISTANTS.

Walter A. Stumm, Chainman

Melvin D. Heist, "

Homer A. Shelley, Moundman

Horace L. Allred, Axman

Will L. White Flagman

For preliminary affidavits see book "Z^2" Tp. 20 S., R 1 W

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Volume
#
R0336

BOOK A-336

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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 t' chain over 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 .

.....

....., *Chainma*

....., *Chainma.*

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

.....

SEAL

.....

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

.....

....., *Moundma*

....., *Moundma.*

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

.....

SEAL

.....

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

.....

....., *Axma*

....., *Axma*

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

.....

SEAL

.....

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

....., *Flagm*

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

.....

SEAL

.....

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Survey commenced,June 23,1906,and executed with the instrument described in book "A",of this survey.
	I know the instrument to be in adjustm ent from recent observations made June 18 and 19,1906,and recorded in book " 16 " Z ,of this survey.
	I begin at the reestablished cor.of secs.4-5-32 and 33, heretofore described.
	The east bdys.of secs.33 and 28,being out of limits for course,I run a sectional guide meridian as follows:
	At 7h.02m.,a.m.,l.m.t.,I set off 39°12'N.on lat.arc,23° 28'N.on decl.arc,and determine a meridian with the solar at the reestablished cor.of secs.4-5-32 and 33.
	Thence I run
	North,on sectional guide meridian,
	Bet.secs.32 and 33.
	Descend over rocky land,through dense sage brush.
4.75	Hollow,75 ft.deep,course E.
	Ascend over rolling land.
23.00	Spur,projects E.
	Descend.
40.00	Set a limestone,20x9x8 ins.,15 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,and raise a mound of stone, 2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
73.00	Hollow,75 ft.deep,course S.E.
	Ascend.
77.00	Spur,projects E.
	Descend.
80.00	Set a limestone,24x10x4 ins.,18 ins.in the ground,for cor.of secs.28-29-32 and 33,marked with 1 notch on S. and 4 notches on E.edges,and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,W.of cor.
	Pits impracticable.
	Land,rolling.
	Soil,rocky,3rd.rate.

SUBDIVISIONS OF T.18 S.,R1 W.

CHAINS	
	No timber; undergrowth,sage.
	Dense undergrowth on 80.00 chs.

	North,on sectional guide meridian,
	Bet.secs.28 and 29.
	Descend over rocky land,through dense sage brush.
7.00	Hollow,75 ft.deep,course N.E.
	Ascend.
10.00	Spur,projects N.E.
	Descend.
13.00	Hollow,50 ft.deep,course N.E.
	Ascend.
15.75	Spur,projects E.
	Descend.
19.00	Hollow,50 ft.deep,course E.
	Ascend.
22.50	Spur,projects E.
	Abrupt descent.
24.00	Enter scattering cedar and pinon timber.
27.30	Hollow,100 ft.deep,course E.
	Abrupt ascent.
35.00	Spur,projects E.
	Abrupt descent.
40.00	Set a limestone,24x12x6 ins.,18 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face,from which
	A pinon,9 ins.diam.,bears N.27°E.,23 lks.dist.
	marked $\frac{1}{4}$ S 28 B T.
	A pinon,10 ins.diam.,bears S.77°W.,64 lks.dist.,
	marked $\frac{1}{4}$ S 29 B T.
42.00	Enter bottom of wide,hollow,200 ft.deep,course E.
	Leave timber.
48.00	Wood,road bears E. and W.
52.00	Wash,40 lks.wide,5 ft.deep,course E.
59.00	Leave hollow,course E.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Begin abrupt ascent over rocky land, through scattering cedar and pinon timber.

73.00 Ridge, bears E. and W.

Abrupt descent.

77.00 Enter heavy cedar and pinon timber, bears E. and W.

80.00 Set a limestone, 15x10x5 ins., 10 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on S. a d 4 notches on W. edges, from which

A cedar, 7 ins., diam, bears N.7°E., 24 lks. dist., marked T 18 S R 1 W S 21 B T.

A pinon, 7 ins. diam., bears S.9°E., 22 lks. dist., marked T 18 S R 1 W S 28 B T.

A pinon, 6 ins. diam., bears N.89°W., 5 lks. dist., marked T 18 S R 1 W S 20 B T.

A pinon, 8 ins. diam., bears S.29°W., 5 lks. dist., marked T 18 S R 1 W S 29 B T.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Mountainous land on 80.00 chs.

From the reestablished $\frac{1}{4}$ sec. cor. bet. secs. 16 and 17, heretofore described, I run

South, bet. secs. 16 and 17.

Descend abruptly over rocky land.

12.00 Hollow, 100 ft. deep, course E.

Abrupt ascent.

23.00 Spur, projects E.

Descend.

27.50 Hollow, 75 ft. deep, course E.

Ascend.

32.50 Ridge, bears E. and W.

Descend.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
38.00	Hollow,100 ft.deep,course N.E.
39.53	A distance equal to the southing of the E.bdy.of sec.16.
	Set temp. cor.for secs.16-17-20 and 21.
	This cor.is set permanently 9 lks.S.of this point after running the line bet.secs.16 and 21 west.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	No timber.
	Mountainous land on 39.53 chs.

	From the reestablished ¼ sec.cor.bet.secs.16 and 21, heretofore described,I run
	West,on a true line,
	Bet.secs.16 and 21.
	Ascend over rocky land,through dense sage brush.
17.00	Begin abrupt ascent,bears N.and S.
20.00	Spur,projects S.E.
	Descend.
30.50	Hollow,100 ft.deep,course S.E.
	Abrupt ascent.
40.00	Rocky spur,projects N.E.
	Descend.
42.90	Fall 9 lks.S.of the temp.cor.of secs.16-17-20 and 21.
	At point of intersection,set a limestone,24x15x7 ins.,18 ins.in the ground,for cor.of secs.16-17-20 and 21, marked with 3 notches on S.and 4 notches on E.edges, from which
	A cedar,8 ins.diam.,bears S.17°W.,48 lks.dist., marked T 18 S R 1 W S 20 B T.
	A cedar,6 ins.diam.,bears S.3°E.,73 lks.dist., marked T 18 S R 1 W S 21 B T.
	Note: This tree was afterward marked for sec.20.
	No other trees within limits,and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Pits impracticable.

SUBDIVISIONS OF T.18.S.,R.1 W.

CHAINS

Land, rolling and mountainous.

Soil, rocky, 3rd. rate.

No timber: undergrowth, sage.

Mountainous land or dense undergrowth on 42.90 chs.

June 23: At this cor. I set off 23°27'N. on decl. arc, and at 12h.02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°15'N.

From the cor. of secs. 20-21-28 and 29, I run

North, on a random line, bet. secs. 20 and 21.

40.00 Set temp. ¼ sec. cor.

79.99 Intersect E. and W. line, 14.33 chs. E. of the cor. of secs. 16-17-20 and 21. The course of this line is therefore S.10°09'E. and the dist. 81.26 chs.
Thence I run

S.10°09'E., on a true line,

Bet. secs. 20 and 21.

Ascend over rocky land, through scattering cedar and pinon timber.

6.00 Ridge, bears N.E. and S.W.

Descend.

16.50 Hollow, 100 ft. deep, course N.E.

Ascend.

30.00 Spur, projects E.

Abrupt descent.

33.50 Hollow, 100 ft. deep, course E.

Leave timber.

Abrupt ascent.

39.00 Spur, projects E.

Descend.

40.63 Proportionate measurement,

Set a limestone, 18x8x4 ins., 12 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.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Pits impracticable.
41.50	Hollow,75 ft.deep,course S.E.
	Ascend.
55.00	Spur,projects S.E.
	Descend.
60.00	Hollow,100 ft.deep,course S.E.
	Ascend.
67.00	Spur,projects S.E.
	Descend.
79.00	Hollow,150 ft.deep,course N.E.
	Enter heavy cedar and pinon timber,bears N.E.and S W.
	Abrupt ascent.
79.50	Wood road,bears N.E.and SW.
81.26	The cor.of secs.20-21-28 and 29.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 81.26 chs.

	From the cor.of secs.28-29-32 and 33,I run
	East,on a random line,bet.secs.28 and 33.
34.30	Fall 2 lks.S.of the reestablished ¼ sec.cor.bet.secs.
	28 and 33.
	Thence I run
	S.89°58'W.,on a true line,
	Bet.secs.28 and 33.
	Ascend over rolling land,through dense sage brush.
19.00	Begin abrupt ascent,bears N.and S.
34.30	The cor.of secs.28-29-32 and 33.
	Land,rolling.
	Soil,rocky,3rd.rate.
	No timber,undergrowth,sage.
	Dense undergrowth on 34.30 chs.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

From the cor.of secs.20-21-28 and 29,I run

N.89°58'E.,on a random line,bet.secs.21 and 28.

31.37 Fall 1 lk.N.of the reestablished ¼ sec.cor.bet.secs.21 and 28,heretofore described.

Thence I run

S.89°59'W.,on a true line,

Bet.secs.21 and 28.

Ascend over rocky land,through dense sage brush.

1.50 Begin abrupt ascent,bears N.and S.

16.00 Spur,projects N.E.

Abrupt descent.

31.37 The cor.of secs.20-21-28 and 29.

Land,mountainous. and rolling.

Soil,rocky,3rd.rate.

No timber; undergrowth,sage.

Mountainous land on 31.37 chs.

June 23,1906.

June 24: At 7h.02m.,a.m.,l.m.t.,I set off 39°12'N.on lat.arc,23°27'N.on decl.arc,and determine a meridian wit the solar,at the cor.of sections-31 and 32,on the S. bdy.of the Tp.,heretofore described.

Thence I run

N.0°01'W.,bet.secs.31 and 32.

Descend abruptly over rocky land,through heavy cedar and pinon timber.

8.00 Hollow,300 ft.deep,course E.

Abrupt ascent.

Leave heavy timber,bears E.and W.

Enter scattering timber.

30.50 Rocky ridge,bears N.W.and S.E.

Abrupt descent.

35.00 Hollow,150 ft.deep,course E.

Abrupt ascent.

40.00 Spur,projects E.

Set a limestone,24x14x5 ins.,18 ins.in the ground,for ¼

CHAINS	
	sec.cor.,marked ¼ on W.face,from which
	A pinon,10 ins.diam.,bears S.82°W.,28 lks.dist.,
	marked ¼ S 31 B T.
	A pinon,9 ins.diam.,bears N.80°E.,34 lks.dist.,
	marked ¼ S 32 B T.
	Abrupt descent.
44.50	Hollow,150 ft.deep,course N.E.
	Abrupt ascent.
53.00	Rocky spur,projects N.E.
	Enter heavy timber,bears N.E.and SW.
67.50	Hollow,100 ft.deep,course E.
	Abrupt ascent.
72.00	Rocky ridge,bears N.E.and SW.
	Abrupt descent.
80.00	Set a limestone,18x10x6 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.edges,from which
	A pinon,5 ins.diam.,bears N.59°E.,9 lks.dist.,
	marked T 18 S R 1 W S 29 B T.
	A cedar,8 ins.diam.,bears S.3°E.,37 lks.dist.,
	marked T 18 S R 1 W S 32 B T.
	A pinon,10 ins.diam.,bears S.80°W.,7 lks.dist.,
	marked T 18 S R 1 W S 31 B T.
	A cedar,4 ins.diam.,bears N.42°W.,11 lks.dist.,
	marked T 18 S R 1 W S 30 B T.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 80.00 chs.

	East,on a random line,bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,9 lks.S.of the cor.of secs.28-29-32 and 33.
	Thence I run

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

S.89°56'W.,on a true line,

Bet.secs.29 and 32.

Ascend abruptly over rocky land.

19.00 Ridge,bears N.E.and S.W.

Abrupt descent.

Enter heavy cedar and pinon timber,bears NE.and SW.

22.60 Hollow,100 ft.deep,course N.E.

Ascend abruptly along south slope.

40.05 Set a limestone,24x10x5 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,from which

A cedar,12 ins.diam.,bears North;10 lks.dist., marked ¼ S 29 B T.

A pinon,8 ins.diam.,bears S.16°E.,26 lks.dist., marked ¼ S 32 B T.

78.00 Rocky ridge,bears N.E.and S.W.

Abrupt descent.

80.10 The cor.of secs.29-30-31 and 32.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 80.10 chs.

Knowing the line bet.secs.30 and 31 will not close with n limits on the W.bdy.of the Tp.,I run

West,on a true line,

Bet.secs.30 and 31.

Descend abruptly over rocky land,through heavy cedar and pinon timber.

0.75 Hollow,200 ft.deep,course N.E.

Abrupt ascent.

26.50 Rocky ridge,bears N.and S.

Abrupt descent.

40.00 Set a limestone,20x15x3 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,from which

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	A cedar,18 ins.diam.,bears N.66°W.,21 lks.dist., marked ⊕ S 30 B T.
	A pinon,12 ins.diam.,bears S.73°E.,24 lks.dist., marked ⊕ S 31 B T.
63.00	Hollow,300 ft.deep,course N.
	Abrupt ascent.
75.00	Rocky spur,projects N.
	Abrupt descent.
107.50	Foot of abrupt descent,bears N.E.and S.
	Leave timber,bears N.E.and S.
	Enter "Jap Valley".
	Over rolling land,through dense sage brush.
111.00	Wood road,bears N.E.and S.W.
182.00	Leave valley,bears N.and S.
	Ascend abruptly over rocky land,through dense oak,laurel and mountain mahoganies.
199.00	Rocky spur,projects S.E.
	Abrupt descent.
226.00	Hollow,300 ft.deep,course S.E.
	Abrupt ascent.
254.00	Ridge,bears N.W.and S.E.
	Enter heavy cedar and pinon timber,bears N.W.and S.E.
	Descend abruptly along steep,rocky south slope.
287.90	Intersect E.bdy.of T.18 S.,R.2 W.,30.81 chs.South of the cor.of secs.25-30-31 and 36,heretofore described.
	Set a sandstone,20x15x6 ins.,15 ins.in the ground,for closing cor.to secs.30 and 31,marked CCon E.,with 1 groove on S.and 5 grooves on N.faces,fromwhich
	A cedar,15 ins.diam.,bears S.52°E.,33 lks.dist., marked T 18 S R 1 W S 31 B T.
	A pinon,12 ins.diam.,bears N.63°E.,46 lks.dist., marked T 18 S R 1 W S 30 B T.
	I destroy all marks on the cor.of secs.25-30-31 and 36, that pertain to R.1 W.
	Land,mountainous and rolling.

Soil, rocky on 213.40 chs. 3rd. rate.

balance, valley land, 2nd. rate.

Timber, cedar and pinon; undergrowth, sage, oak, laurel and mahoganies.

Mountainous land or dense undergrowth on 287.90 chs.

June 24: At this cor. I set off 23°26'N. on decl. arc, and at 12h. 02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°13'N.

N.0°01'W., bet. secs. 29 and 30.

Descend abruptly over rocky land, through heavy cedar and pinon timber.

7.50 Hollow, 200 ft. deep, course E.

Abrupt ascent.

13.00 Rocky ridge, bears E. and W.

Abrupt descent.

30.50 Enter bottom of hollow, 400 ft. deep, course N.E.

Leave timber, bears N. and SW.

31.50 Wood road, bears N.E. and S.W.

34.50 Wash, in hollow, 25 lks. wide, 5 ft. deep, course N.E.

35.50 Leave hollow, course N.E.

Begin abrupt ascent over broken and rocky land.

40.00 Set a limestone, 20x10x4 ins., 15 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.

62.00 Ridge, bears N.W. and S.E.

Abrupt descent.

Enter heavy cedar and pinon timber, bears N.W. and S.E.

74.00 Leave timber, bears E. and W.

78.50 Hollow, 150 ft. deep, course E.

Abrupt ascent.

80.00 Set a limestone, 18x10x4 ins., 12 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, and raise a mound of stone, 2 ft

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	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.
	June 24 1906.

	June 25: At 7h.02m., a.m., l.m.t, I set off 39°14'N.on lat. arc, 23°26'N.on decl.arc, and determine a meridian with the solar, at the cor.of secs.19-20-29 and 30.
	Thence I run
	N.89°56'E., on a random line, bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N.and S.line, 9 lks.S.of the cor.of secs. 20-21-28 and 29.
	Thence I run
	S.89°52'W., on a true line,
	Bet.secs.20 and 29.
	Descend along steep north slope, through heavy cedar and pinon timber.
3.00	Wood road, bears N.E.and S.W.
7.00	Hollow, 100 ft.deep, course N.E.
	Abrupt ascent.
	Leave heavy timber, bears N.E.and S.W.
	Enter scattering timber.
26.75	Ridge, bears N.W.and S.E.
	Descend.
29.50	Hollow, 75 ft.deep, course S.
	Abrupt ascent.
40.04	Set a limestone, 24x8x4 ins., 18 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face, from which
	A pinon, 10 ins.diam., bears S.28°W., 81 lks.dist.,
	marked ¼ S 29 B T.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

A cedar, 15 ins.diam., bears N.17°W., 13 lks.dist., marked ¼ S 20 B T.

73.00 Ridge, bears N.W. and S.E.

Descend abruptly along steep south slope.

75.00 Leave timber, bears N.W. and S.E.

80.08 The cor. of secs.19-20-29 and 30.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Mountainous land on 80.08 chs.

Knowing the line bet.secs.19 and 30, will not close withi limits on the W.bdy. of the Tp., I run

West, on a true line,

Bet.secs.19 and 30.

Ascend abruptly over rocky land, along steep south slope.

34.00 Enter heavy cedar and pinon timber, bears N. and S.

39.00 Ridge, bears N. and S.

Abrupt descent.

40.00 Set a limestone, 20x10x5 ins., 15 ins. in the ground, for ¼ sec.cor., marked ¼ on N.face, from which

A pinon, 8 ins.diam., bears N.23°E., 37 lks.dist., marked ¼ S 19 B T.

A pinon, 10 ins.diam., bears S.58°W., 51 lks.dist., marked ¼ S 30 B T.

51.00 Hollow, 150 ft.deep, course N.E.

Abrupt ascent.

70.00 Ridge, bears N. and S.E.

Abrupt descent.

111.00 Foot of abrupt descent, bears N. and S.

Leave timber, bears N. and S.

Enter "Jap Valley", bears N. and S.

Over rolling land, through dense sage brush.

187.00 Leave valley, bears N. and S.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Ascend abruptly over broken and rocky land, along steep south slope, through dense oak, mountain mahoganies and scattering cedar and pinon timber.

287.94 Intersect N.bdy. of T.18 S., R.2 W., 29.75 chs. South of the cor. of secs.19-24-25 and 30, heretofore described.

Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for closing cor. to secs.19 and 30, marked CC on E., with 2 grooves on S. and 4 grooves on N. faces, from which

A pinon, 4 ins. diam., bears S.38°E., 18 lks. dist., marked T 18 S R 1 W S 30 B T.

A cedar, 8 ins. diam., bears N.76°E., 51 lks. dist., marked T 18 S R 1 W S 19 B T.

I destroy all marks on the cor. of secs.19-24-25 and 30, that pertain to R.1 W.

Land, mountainous.

Soil, rocky, on 211.94 chs., 3rd. rate.

balance, valley land, 2nd. rate.

Timber, cedar and pinon: undergrowth, sage, oak, laurel and mahoganies.

Mountainous land on 211.94 chs.

June 25: At this cor. I set off 23°25' N. on decl. arc, and at 12h.02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°14' N.

The east bdy. of sec.20 being out of limits for course, I run

North, on a sectional guide meridian,

Bet. secs.19 and 20.

Ascend abruptly over rocky land.

3.50 Ridge, bears N.W. and S.E.

Enter heavy cedar and pinon timber, bears N.W. and S.E.

Descend abruptly over broken land.

40.00 Set a limestone, 24x10x4 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

A pinon,6 ins.diam.,bears S.67°E.,21 lks.dist., marked ¼ S 20 B T.

A cedar,10 ins,diam,bears N.54°W.,19 lks.dist., marked ¼ S 19 B T.

41.00 Hollow,150 ft.deep,course E.

Abrupt ascent.

51.50 Ridge,bears E.and W.

Descend.

60.00 Hollow,50 ft.deep,course E.

Ascend.

75.00 Ridge,bears E.and W.

Descend.

80.00 Set a limestone,24x15x7 ins.,18 ins.in the ground,for cor.of secs.17-18-19 and 20,marked with 3 notches on S., and 5 notches on E.edges,from which

A cedar,4 ins.diam.,bears N.15°E.,26 lks.dist., marked T 18 S R 1 W S 17 B T.

A cedar,6 ins.diam.,bears S.44°E.,94 lks.dist., marked T 18 S R 1 W S 20 B T.

A cedar,7 ins.diam.,bears S.48°W.,64 lks.dist., marked T 18 S R 1 W S 19 B T.

A pinon,8 ins.diam.,bears N.73°30'W.,198 lks.dist., marked T 18 S R 1 W S 18 B T.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 80.00 chs.

N.89°52'E.,on a random line,bet.secs.17 and 20.

40.00 Set temp.¼ sec.cor.

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

Thence I run

S.89°45'W.,on a true line,

Bet.secs.17 and 20.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Descend over rocky land, through scattering cedar and pinon timber.
1.00	Hollow, 75 ft. deep, course N.E.
	Abrupt ascent.
12.00	Enter heavy cedar and pinon timber, bears N. and S.
25.62	Placing fractional distance aginst the east.
	Set a limestone, 18x7x7 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon, 7 ins. diam., bears S.2°E., 44 lks. dist., marked ¼ S 20 B T.
	A cedar, 8 ins. diam., bears N.50°W., 37 lks. dist., marked ¼ S 17 B T.
26.00	Ridge, bears N.W. and S.E.
	Descend
30.00	Head of hollow, course S.E.
	Ascend.
33.00	Spur, projects S.E.
	Descend.
36.00	Head of hollow, course S.E.
	Ascend.
39.00	Spur, projects S.E.
	Descend.
42.00	Head of hollow, course S.E.
	Ascend.
45.00	Spur, projects S.E.
	Descend.
50.50	Hollow, 150 ft. deep, course S.E.
	Abrupt ascent.
65.62	The cor. of secs. 17-18-19 and 20.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.
	Mountainous land on 65.62 chs.

June 25, 1906.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	June 26,:At 7h.02m.,a.m.,l.m.t,I set off 39°15'N.on lat. arc,23°25'N.on decl.arc,and determine a meridian with th solar,at the cor.of secs.17-18-19 and 20.
	Knowing the line bet.secs.18 and 19,will not close withi limits on the W.bdy.of the Tp.,I run
	West,on a true line, bet.secs.18 and 19.
	Ascend abruptly over rocky land,through scattering cedar and pinon timber.
34.00	Leave timber,
40.00	Set a limestone,18x12x6 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.
45.00	Enter heavy cedar and pinon timber,bears N.W.and S.E.
63.00	Ridge,bears N.and S.
	Abrupt descent.
93.00	Foot of abrupt descent,bears N.and S.
	Leave timber,bears N.and S.
	Enter wide hollow,drains south.
	Over level land,through dense sage brush.
127.00	Leave hollow,course S.
	Begin abrupt ascent,bears N.E.and S.W.
147.00	Ridge,bears N.and S.
	Abrupt descent.
161.50	Hollow,100 ft.deep,course S.
	Ascend.
178.00	Spur,projects S.E.
	Descend.
192.00	Hollow,150 ft.deep,course S.E.
	Ascend abruptly through dense oak and mountain mahoganies.
287.88	Intersect E.bdy.of T.18S.,R.2 W.,30.98 chs.,South of the cor.of secs.13-18-19 and 24,heretofore described.
	Set a sandstone,20x12x5 ins.,15 ins.in the ground,for closing cor.to secs.18 and 19,marked CC on E.,with 3

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	grooves on N.and S.faces,and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon; undergrowth,sage,oak and mahoganies.
	Mountainous land or dense undergrowth on 287.88 chs.
	June 26:At this cor.I set off 23°23'N.on decl.arc,and at 12h.02m.,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 39°15'N.
	N.0°01'W.,bet.secs.17 and 18.
	Descend over rocky land,through scattering cedar and pinon timber.
5.50	Hollow,150 ft.deep,course E.
	Abrupt ascent.
12.00	Ridge,bears E.and W.
	Leave timber.
	Abrupt descent.
40.00	Set a limestone,20x14x7 ins.,15 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.
47.50	Hollow,100 ft.deep,course E.
	Ascend.
54.00	Ridge,bears E.and W.
	Descend.
65.00	Hollow,50 ft.deep,course E.
	Ascend.
76.00	Ridge,bears E.and W.
	Descend.
80.00	Set a limestone,18x14x7 ins.,12 ins.in the ground,for cor.of secs.7-8-17 and 18,marked with 4 notches on S.and 5 notches on E.edges,and raise a mound of stone,2 ft.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

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.

N.89°45'E., on a random line, bet. secs. 8 and 17.

40.00 Set temp. ¼ sec. cor.

65.52 Intersect N. and S. line, 44 lks. N. of the reestablished co. of secs. 8-9-16 and 17, heretofore described.

Thence I run

N.89°52'W., on a true line, bet. secs. 8 and 17.

Ascend over rocky land, through scattering cedar and pin n timber.

8.00 Ridge, bears N. and S. Descend.

18.10 Hollow, 150 ft. deep, course N.E. Abrupt ascent.

25.52 Set a limestone, 20x8x4 ins., 15 ins. in the ground, for ¼ sec. cor. for sec. 17, marked ¼ on S. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable

40.00 A distance equal to eastern portion of N. bdy. sec. 8.

Set a limestone, 12x8x6 ins., 8 ins. in the ground, for ¼ sec. cor. for sec. 8, marked ¼ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

46.00 Ridge, bears N. and S. Descend.

56.50 Hollow, 75 ft. deep, course N. Ascend.

59.00 Leave timber.

65.52 The cor. of secs. 7-8-17 and 18.

Land, mountainous.

Soil, rocky, 3rd. rate.

Timber, cedar and pinon.

Mountainous land on 65.52 chs.

June 26, 1906

June 27: At 7h.03m., a.m., l.m.t., I set off 39°16'N. on lat. arc, 23°23'N. on decl. arc, and determine a meridian with the

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	solar, at the cor. of secs.7-8-17 and 18.
	Knowing the line bet.secs.7 and 18 will not close within limits on the W.bdy.of the Tp., I run
	West, on a true line, bet.secs.7 and 18.
	Ascend abruptly over rocky land.
28.80	Enter scattering cedar and pinon timber.
33.00	Rocky ridge, bears N.W. and S.E. Abrupt descent.
	Leave timber.
40.00	Set a limestone, 24x9x6 ins., 18 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.
45.50	Hollow, 150 ft.deep, course S.E. Abrupt ascent.
	Enter heavy cedar and pinon timber, bears N.W. and S.E.
68.00	Rocky ridge, bears N. and S. Abrupt descent.
86.00	Leave timber, bears N. and S.
125.50	Hollow, 500 ft. below ridge, course S. Ascend.
	Enter scattering cedar and pinon timber.
181.50	Ridge, bears N.W. and S.E. Abrupt descent.
245.00	Hollow, 200 ft.deep, course S.E. Leave timber.
	Ascend abruptly through dense oak, maple and mountain mahoganies.
256.00	Rocky spur, projects S.E.
	Descend abruptly along steep south slope.
287.76	Intersect E.bdy.of T.18 S., R.2 W., 31.75 chs. S. of the cor. of secs.7-12-13 and 18, heretofore described.
	Set a limestone, 20x15x4 ins., 15 ins. in the ground, for closing cor. to secs.7 and 18, marked CC on E. and 4 groov on S. and 2 grooves on N. faces, and raise a mound of stone, 2 ft.base, 1½ ft.high, E.of cor. Pits impracticable.
	I destroy all marks on the cor. of secs.7-12-13 and 18, that pertain to R.1 W.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	Timber, cedar and pinon.

SUBDIVISIONS OF T.18 S., R.1 W.

CHAINS

Mountainous land on 287.76 chs.

June 27: At this cor. I set off 23°21' N. on decl. arc, and at 12h.02m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°16' N.

The E. bdys. of secs. 8 and 5, being out of limits for course and distance, I run a sectional guide meridian as follows:

North, on sectional guide meridian, along E. bdy. of sec. 7.

Descend along rocky east slope, through dense oak and sage brush.

32.00 Hollow, 100 ft. deep, course E.

Ascend.

39.25 A distance equal to half of the E. bdy. of sec. 8.

Set a limestone, 18x10x4 ins., 12 ins. in the ground, for ¼ sec. cor. for sec. 8, marked ¼ on E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor.

Pits impracticable.

40.00 Set a limestone, 18x12x5 ins., 12 ins. in the ground, for ¼ sec. cor. for sec. 7, marked with ¼ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Pits impracticable.

45.50 Ridge, bears E. and W.

Descend.

63.10 Hollow, 75 ft. deep, course E.

Enter scattering cedar and pinon timber.

Ascend.

70.00 Spur, projects E.

Abrupt descent.

75.00 Hollow, 100 ft. deep, course E.

Leave timber.

Abrupt ascent.

78.50 A distance equal to the length of the E. bdy. of sec. 8.

4—679.

BOOK A-336

C.

FIELD NOTES

OF THE RETRACEMENT AND RESURVEY

of

The South Boundary of Township No. 1 S. Range No. 8 W.

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 293, *dated* April 14, 1906, *190*

Retracement and *Survey commenced* July 15, 1906, *190*

Retracement and *Survey completed* July 16, 1906, *190*

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Lin 5, 79-51

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS

Pits impracticable.

45.00 Hollow,100 ft.deep,course E.

Abrupt ascent.

48.00 Spur,projects E.

Descend.

50.00 Hollow,75 ft.deep,course S.E.

Ascend.

54.00 Ridge,bears E.and W.

Descend.

60.00 Enter scattering cedar and pinon timber.

76.20 Intersect N.bdy.of Tp.,26.45 chs.E.of the cor.of secs. 5-6-31 and 32,heretofore described.

Set a limestone,20x10x4 ins.,15 ins.in the ground,for closing cor.to secs.5 and 6,marked CC on S.,with 5 grooves on E.and 1 groove on W.faces,from which

A cedar,5 ins.diam.,bears S.17°E.,11 lks.dist., marked T 18 S . R 1 W S 5 B T.

A cedar,10 ins.diam.,bears S.50°W.,60 lks.dist., marked T 18 S R 1 W S 6 B T.

I destroy all marks on cor.of secs.5-6-31 and 32,pertaining to T.18 S.

Land,mountainous.

Soil,rocky,3rd.rate.

Timber,cedar and pinon.

Mountainous land on 76.20 chs.

June 27,1906.

June 28: At 7h.03m.,a.m.,l.m.t.,I set off 39°16'N.on lat. arc,23°20'N.on decl.arc,and determine a meridian with the solar,at the cor.of secs.5 and 8.

Thence I run

S.89°52'E.,on a random line,bet.secs.5 and 8.

20.70 Fall 2 lks.S.of the reestablished ¼ sec.cor.bet.secs.5 and 8,heretofore described.

Thence I run

N.89°55'W.,on a true line,

Bet.secs.5 and 8.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Ascend over rocky land,through heavy cedar and pinon timbe
3.00	Begin ascent along ridge,bearing west. Thence along ridge
11.00	Leave timber,bears N.and S.
20.70	The cor.of secs.5-and 8.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous-land on 20.70 chs.

	Knowing the line bet.secs.6 and 7 will not close within limits on the W.bdy.of the Tp.,I run
	West,on a true line,
	Bet.secs.6 and 7.
	Ascend abruptly over rocky land,along top of ridge, bearing E.and W.
15.00	Enter scattering cedar and pinon timber.
40.00	Set a limestone,24x10x6 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face,from which
	A pinon,8 ins.diam.,bears N.71°E.,30 lks.dist.,
	marked ¼ S 6 B T.
	No other trees within limits,and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
	Pits impracticable.
63.00	Ridge,bears N.and S.
	Leave timber.
	Abrupt descent.
110.00	Hollow,800 ft.below ridge,course N.
	Abrupt ascent.
155.00	Ridge,bears N.E.and S.W.
	Abrupt descent.
186.50	Hollow,100 ft.deep,course N.E. Ascend.
202.00	Ridge,bears N.W.and S.E.
	Abrupt descent.
230.00	Hollow,400 ft.deep,course S.

SUBDIVISIONS OF T.18 S.,R.1 W.

CHAINS	
	Abrupt ascent.
285.50	Ridge,bears N.and S.
	Descend.
287.60	Intersect E.bdy.of T.18 S.,R.2 W.,32.64 chs.S.of the cor. of secs.1-6-7 and 12,heretofore described.
	Set a limestone,20x10x6 ins.,15 ins.in the ground,for closing cor.of secs.6 and 7,marked CC on E.,with 5 grooves on S.and 1 groove on N.faces,and raise a mound o stone,2 ft.base,1½ ft.high,E.of cor.
	Pits impracticable.
	I destroy all marks on the cor.of secs.1-6-7 and 12, that pertain to R.1 W.
	Land,mountainous.
	Soil,rocky,3rd.rate.
	Timber,cedar and pinon.
	Mountainous land on 287.60 chs.

June 28,1906.

G E N E R A L D E S C R I P T I O N

The portion of this township surveyed,falls on the east slope of "Dry Mountain" and with the exception of the extreme eastern portion of this survey is mountainous, the western portion rising about 1500 ft.higher in elevation than the eastern portion.

A scattering growth of cedar and pinon timber is found on the eastern portion of this survey and the survey generally is covered with a dense growth of undergrowth.

There is no water or settlers found on this survey.

The north end of "Jap Valley" extends into this township this valley has fertile soil but is not adapted for agricultural purposes on account of the absence of water.

There are no indications of mineral found on this survey.

Harvey D. Heist
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:

For final affidavits see book "Z[29]" Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

For final affidavits see book "Z[29]" Tp.23 S., R. 5 W. ....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, c
solemnly swear that, in pursuance of a contract received from ....., bearing date of th
United States Surveyor General for ....., 190 , 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 Manual of Surveying Instructions, and the laws of t
United States, surveyed all those parts or portions of .....

29

For final affidavits see book "Z" Tp.23 S., R. 5 W.

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

United States Deputy Surve

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 190

The foregoing field notes of the survey of the subdivisional lines of Township 18 South, Range No.1 West of the Salt Lake Base and Meridian, Utah

executed by Harvey D.Heist and Earl V.Woolley
under his contract No. 291, dated June 3, 190 5, having
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

United States Surveyor Gene

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

United States Surveyor Gene

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4—679.

BOOK A-336

A.

FIELD NOTES

RESURVEY
OF THE ~~SURVEY~~ OF THE

GUIDE MERIDIAN

through

Township No. 1 South between Ranges 8 and 9 West

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

ıder his Contract No. 293, *dated* April 14, 1906., *190*

rvey commenced July 12, 1906., *190*

rvey completed July 13, 1906., *190*

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Length 20-00
Alt. 5-60-00

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr.	Chainman
Ambrose Green	Chainman
Allen S. Bowden	Chainman
Lionel J. Stookey	Chainman
Lionel J. Stookey	Monumentman
Lincoln A. Stookey	Flagman

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BOOK A-336

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr, Ambrose Green, Allen L Bowden & Lionel J. Stookey

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 Guide Meridian through Th 1 South bet. Ranges 8 and 9 W. of the Salt Lake Base and Meridian in the State of Utah

Lionel J Stookey, David Sharp Jr, Chainmen

Allen L Bowden, Ambrose Green, Chainmen

Subscribed and sworn to before me this 12 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, Lincoln A. Stookey 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 the Guide Meridian through Th 1 South bet ranges 8 and 9 W. of the Salt Lake Base and Meridian in the State of Utah

Lionel J. Stookey, Moundman

, Moundman

Subscribed and sworn to before me this 12 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, and

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

, Axman

, Axman

Subscribed and sworn to before me this day of , 190

SEAL

I, Lincoln A. Stookey, 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 Guide Meridian through Th 1 South bet. ranges 8 and 9 W. of the Salt Lake Base and Meridian in the State of Utah.

Lincoln A. Stookey, Flagman

Subscribed and sworn to before me this 12 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

4-13

RESURVEY OF THE GUIDE MERIDIAN THROUGH T1 S. BET. RS. 8 & 9 W.

Survey commenced July 12, 1906, and executed with a W. and L. E. Gurley light mountain transit, with solar attachment.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the 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 19, 1906.

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

At the cor. of Tps. 1 and 2 S., Rs. 8 and 9 W.; latitude 40° 40' 51" N., longitude 112° 48' 20" W.; I set off 40° 41' N. on the lat. arc; 22° 01' N., on the decl. arc; and at $3^h\ 5^m$ p. m. l. m. t., determine with the solar a meridian and mark a point thereof, on a peg firmly set in the ground, 5 chs. N. of the cor.

July 12, 1906.

July 13: At $0^h:09^m$ a. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven into the ground 5 chs. N. of my station.

At 7 a. m., l. m. t., I lay off the azimuth of Polaris, 1° 35' to the west, and mark the meridian thus determine by driving a tack into the peg set July 12, on which the meridian falls 0.4 ins, east of the mark determined by the solar.

At $8^h\ 5^m$ a. m. l. m. t., I set off 40° 41' on the lat. arc;

21° 56' N., on the decl. arc; and mark a point in the meridian determined with the solar, by a tack driven into the peg already set 5 chs. N. of my station; this mark falls 0.4 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' 21" 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 8:30 a. m. is N. 17° 26' W.; the angle thus determined gives the mag. decl. 17° 26' E.

Knowing from previous surveys that no part of this meridian is in alinement, that some of the corners are missing and others nearly obliterated; and, as these townships have not been subdivided, I resurvey the meridian between them as follows: From said Tp.cor., which is a limestone 6x6x6 ins. above ground, firmly set and mkd. and witnessed as described by surveyor general, I run North, bet. secs. 31 and 36.

Over level alkali land.

Differenc 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 a sand stone 15 X 7 X 5 ins. 10 ins. in the ground vor $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

Old $\frac{1}{4}$ sec. cor bears S.67° E. 76 lks. dist.; a quartzite stone 12 x 8 x 5 ins. I destroy all trace of same.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 6 lks.; position of middle point

RESURVEY OF THE GUIDE MERIDIAN THROUGH T. 1 S., BET. RS. 8 & 9. W.

By 1st set, 79.97 chs.

By 2nd set, 80.03 chs.; the mean of which is

80.00 Set a lime stone 15 X 8 X 6 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

The old sec. cor. which I destroy, bears S. 44° E. 1.26 chs. dist., a limestone 10 x 8 x 6 ins.

Land level.

Soil alkali and clay 3" rate.

No timber.

North, bet. secs. 25 and 30.

Over level alkali land.

11.14 Dry bed of slough 30 lks. wide, 2 ft. deep, drains N. 25° E.

16.50 Same slough, drains N. 30° W.

31.75 Same slough, drains N. 18° E.

Difference between measurements of 40.00 chs., by two sets of chainmen is 6 lks.; position of middle point

By 1st set, 39.97 chs.

By 2nd set, 40.03 chs.; the mean of which is

40.00 Set a sand stone 15 X 7 X 6 ins. 10 ins. in the ground for. ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

No trace could be found of old cor.

51.30 Same slough as last named, drains N. 30° W.

51.75 Same slough, drains N. 35° E.

62.45 Same slough, drains N.38° W.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 8 lks.; position of middle point

By 1st set, 79.96 chs.

By 2nd set, 80.04 chs.; the mean of which is

80.00 Set a sand stone 15 X 7 X 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Remains of old cor. which I destroy bears S. 35° E. 1.58 chs. dist., a quartzite stone 12 x 10 x 5 ins.
Land level,
Soil alkali and clay 3" rate.
No timber.

North, bet. secs. 19 and 24.
Over level alkali land.
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 a quartzite stone 15 X 10 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
No definite trace of old cor. can be found.
Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.; position of middle point
By 1st set, 79.98 chs.
By 2nd set, 80.02 chs.; the mean of which is

80.00 Set a sand stone 15 X 8 X 5 ins. 10 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
The remains of the old cor. which I destroy, bears N. 47° E. 1.03 chs. dist., a quartzite stone 13x10x5 ins.
Land level.
Soil alkali. and clay 3" rate.
No timber.

North, bet. secs. 13 and 18.

RESURVEY OF THE GUIDE MERIDIAN THROUGH T. 1 S. BET. RS. 8 & 9 W.

Over level alkali land.

1.27 Dry bed of slough same as last named, drains N. 40° E.

Difference between measurements of 40.00 chs., by two sets of chainmen is 41lks.; position of middle point

By 1st set, 39.98 chs.

By 2nd set, 40.02 chs.; the mean of which is

40.00 Set a sand stone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. The old c r. A cobblestone 12x10x5 ins., which I destroy, bears E. 1.44 chs.

July 13: At this ¼ sec. cor., I set off 21° 54' N. on the decl. arc; and at 0 h. 5 m p m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 44'.

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 a sand stone 15 X 7 X 6 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Fail to find any definite trace of old cor.

Land level.

Soil alkali and clay 3" rate.

No timber.

North, bet. secs. 7 and 12

Over level alkali land.

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 a sand stone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X

12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
Old cor. which I destroy bears S. 49° E. about 2 chs. dist., a quartzite stone 10x10x5 ins.
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 a sand stone 15 X 7 X 5 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Remains of old cor., which I destroy, bears S. 50° E. 2.65 chs. dist.
Land almost level.
Soil alkali and clay, 3" rate.
No timber.

North, bet secs. 1 and 6.
Over level alkali land.
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 a sand stone 15 X 10 X 5ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
The old cor. bears S. 52° E. 2.78 chs. dist. I destroy all traces of same. A quartzite stone 10x10x6 ins.

60.00 Leave alkali land, bears E. and W., enter dense shadscale and greasewood undergrowth.
Difference between measurements of 80.00 chs., by two sets of chainmen is 6 lks.; position of middle point
By 1st set, 79.97 chs.

RESURVEY OF THE GUIDE MERIDIAN THROUGH T. 1 S. BET. RS. 8 & 9 W.

By 2nd set, 80.03 chs.; the mean of which is

80.00
20
60

Set a sand stone 18 X 6 X 6 ins. 12 ins. in the ground for cor. of Tps. 1 N. and 1 S., Rs. 8 and 9 W., marked with 6 notches on each edge; dig pits 24x24x12 ins., on each line, N., E. and W., 4 ft. and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2½ ft. high S. of cor.

Land almost level.

Soil alkali, clay, and sand, 3" rate.

No timber, undergrowth shadscale and greasewood.

Land covered with dense undergrowth 20.00 chs.

All traces of old cor. have disappeared.

July 13, 1906.

For general description see field notes of the subdivisions of township 1 south range 8 west.

Alonzo Stookey,

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 Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and rking the lines and cor rs describ d in the foregoing field notes of the survey of the Guide Mer. Tp. 1 South, bet. ranges 8 and 9 West, and Meridian in the State of Utah wing the respective capacities in which they acted:

David Sharp, Ambrose Green, Chainman.
L. Bowden, Lionel J. Stookey, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Marlon A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey United States Deputy Surveyor, in surveying all e part or portions of the Guide Meridian through Tp. 1 South bet. Ranges 8 and 9 West of the Salt Lake and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor ral for Utah.

David Sharp, Ambrose Green, Chainman.
Lionel J. Stookey, Allen L. Bowden, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
A. Stookey, Flagman.

ribed and sworn to before me this 13 ay of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14th day of April, 1906 I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surv General for Utah, the Manual of Surveying Instructions, and the laws of United States, re surveyed all those parts or portions of the Guide Meridia through Tp. 1 South bet. ranges 8 and West

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

Alonzo J. Stookey
United States Deputy Surve

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 19

The foregoing field notes of the re survey of the Guide Meridian through Townshi No. 1 South, between Ranges 8 and 9 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, and re surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

Thomas
United States Surveyor G

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4—070.

BOOK A-336

B.

FIELD NOTES

OF THE RE SURVEY OF THE

S A L T L A K E B A S E L I N E

through

Ranges 7 and 8 West

Of the Salt Lake *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stirkey *, United States Deputy Surveyor,*

ver his Contract No. 237 *, dated* April 14, 1906. *190*

vey commenced July 13, 1906. *190*

vey completed July 14 1906. *190*

4—311

NAMES AND DUTIES OF ASSISTANTS.

David Sharpe Jr	Shearman
Theodore Green	Shearman
Simeon J. Stanley	Shearman
Allen B. Crowell	Shearman
Simeon J. Stanley	Foreman
Lucien A. Stanley	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr. Ambrose Green, Lionel J. Stookey, Allen L. B, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will leve chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we ass measuring, to the best of our skill and ability, and in accordance with instructions given us, in the re-survey of the Salt Lake Base line through Ranges 7 and 8 West of the Salt Lake Meridian, Utah.

Lionel J. Stookey, David Sharp Jr., Chain
Allen L. Bowden, Ambrose Green, Chain

Subscribed and sworn to before me this 13 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, L. Lionel J. Stookey and
do solemnly swear that we will well and truly perform the duties of moundman in the establish of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re-sur the Salt Lake Base line through Ranges 7 and 8 West of the Salt Lake Meridian Utah

Lionel J. Stookey, Mound
, Mound

Subscribed and sworn to before me this 13 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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

, A
, A

Subscribed and sworn to before me this
day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, resurvey of the Salt Lake Base line through Ranges 7 and 8 We of the Salt Lake Meridian Utah

Lincoln A. Stookey, Fla

Subscribed and sworn to before me this 13 day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

6—151

RESURVEY OF THE SALT LAKE BASE LINE THROUGH R. 8 W.

Survey commenced July 13, 1906, for description of transit etc. see book "A"

I begin at the Base Line cor. of Tps. 1 S. and 1 N. Rs. 8 and 9 W., which I established July 13, 1906. Latitude 40°46' N., longitude 112°48' W.

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

At 4:05 p. m. l. m. t., I set off 40°46' on the lat. arc; 21°53' N. on the decl. arc; and mark the meridian thus determined with the solar, by a tack in a peg firmly set in the ground, 5 chs. N. of the instrument.

July 13, 1906.

July 14; At 0 5 m.a. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the instructions in the Manual, and mark the line thus determined by a tack driven into a wooden plug set in the ground, 5 chs. N. of my station.

At 7 a. m., I lay off the azimuth of Polaris 1°35' to the west and mark the meridian thus determined, by cutting a small groove in the peg set last evening, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At $8^h 5^m$ a. m., I set off 40°46' on the lat. arc; 21°47' N. on the decl. arc, and mark the true meridian determined with the solar by a cross on the peg already set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by Polaris observation.

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

the instrument are satisfactory.

The magnetic bearing of the meridian, at 8:30 a. m., is N. 17°24' W.; the angle thus determined gives the mag. decl. 17°24' E.

Knowing from previous surveys that no part of this Base Line is in alinement, that some of the corners are missing and others nearly obliterated; and , as these townships have not been subdivided, I resurvey the Base Line through ranges 7 and 8 west as follows:

From the Base Line cor. above described, I run East, on S. bdy. sec. 31.

Over almost level land, through dense shadscale and greasewood undergrowth.

Difference betwen measurements of 40.00 chs,, by two sets of chainmen, is 4 lks.; position of middle point

By 1st set, 39.98 chs.

By 2nd set, 40.02 chs.; the mean of which is

40.00 Set a sand stone 15x7x6 ins. 10 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

After diligent search, I fail.to find any trace of old ¼ sec. cor.

44.00 Pipe line from Burnt Spring to Low Pass, bears N. 50° W.and S. 50° E.

44.25 Road from Grantsville to Low Pass, bears N. 50° W. and S. 50° E.

50.86 Road from Grantsville to Low Pass, bears N. 50° W. and S. 50° E.

65.90 Western Pacific Ry. track, bears N. 50° W. and S. 50° E.

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

RESURVEY OF THE SALT LAKE BASE LINE THROUGH R. 8 W.

80.00 Set a quartzite stone 18x6x6 ins. 12 ins. in the ground for standard cor. of secs. 31 and 32, marked S C on N.; with 5 grooves E., and 1 groove on W. face; dig pits 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

The old cor., a decomposed limestone , bears N. 40° E. about 3 chs. dist., I destroy all traces of same.

Land almost level

Soil sand and clay 3" rate,

No timber. Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

East, on S. bdy. of sec. 32.

Over almost level land, through dense shadscale and greasewood undergrowth.

1.60 Road from Grantsville to Low Pass, bears N. 53° W. and S. 53° E.

12.00 Begin ascent of extreme southern spur of Lake Side range a low ridge known as Hogs Back, bears N and S.

21.50 Top of ridge 100 ft. above last named sec. cor., bears N and S.

26.50 Foot ridge, 100 ft. below top, bears N. and S.

29.00 Sheep road, bears N. and S.

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 2 nd set, 39.97 chs.; the mean of which is

40.00 Set a quartzite stone 15x7x5 ins. 10 ins. in the ground for standard $\frac{1}{4}$ sec. cor. marked S C $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins. E and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor

The old ¼ sec. cor., lying loose on the ground, bears N. 35° E., about 3.25 chs. dist. I destroy all traces of same. This cor. is a sandstone partly decomposed.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point

By 1st set, 79.97 chs.

By 2nd set, 80.03 chs.; the mean of which is

80.00 Set a lime stone 18x8x6 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33, marked S C on N.; with 4 grooves on E., and 2 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Fail to find any definite trace of old cor.

Land rolling and level,

Soil sand, stony and clay; 2" and 3" rate.

No timber. Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

East, on S. bdy. sec. 33.

Over level land, through dense shadscale and greasewood undergrowth.

15.00 Leave dense undergrowth, bears N. and S., enter almost level alkali land.

Difference between measurements of 40.00 by two sets of chainmen, is two 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 a quartzite stone 15x8x5 ins. 10 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. No trace of old 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 a quartzite stone 15x10x4 ins. 10 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; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft.; and N. of stone 7 ft. dist.; and raise a mound of earth 4ft. base, 2 ft. high N. of cor.

15/65

The old cor. which I destroy, bears N.28° E. about 2 chs. dist. This cor. is a sand stone or quatzite.

Land almost level,

Soil, alkali, sand and clay; 3" and 4" rate.

No timber. Undergrowth, shadscale and greasewood.

Land covered with dense undergrowth 15 chs.

July 14: At this cor. I set off 21°45' N. on decl. arc; and, at $0^h.:06^m$ p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40°46'.

East, on S. bdy. of sec. 34.

Over almost level land.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set a quartzite stone 18x6x5 ins. 12 ins. intho ground for standard ¼ sec. cor.; marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor. Fail to find any trace of old ¼ sec. cor.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 1 lk.; position of middle point

By 1st set, 80.00½ chs.

By 2nd set, 79.99½ chs.; the mean of which is

80.00 Set a quartzite stone 18x10x5 ins. 12 ins. in the

ground for standard cor. of secs. 34 and 35, marked S C on N.; with 2 grooves on E and 4 grooves on W. faces; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

The old cor. which I destroy, bears N. 82° E. about 2.50 chs. dist. This cor. is a sand stone or quartzite.

Land almost level,

Soil alkali and clay 4" rate,

No timber. No undergrowth.

East, on S. bdy. of sec. 35.

Over almost level land.

20.90 Road from Grantsville to Oakley Idaho, bears N. 30° W. and S. 30° E.

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 a quartzite stone 15x7x5 ins. 10 ins. in the ground for standard $\frac{1}{4}$ sec. cor. marked S C $\frac{1}{4}$ on N. face; dig dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

The old cor., a decomposed sandstone or quartzite bears N. 83° E. about 3 chs. dist. which I destroy.

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

By 1st set, 79.98 chs.

By 2nd set, 80.02 chs.; the mean of which is

80.00 Set a quartzite stone 15x10x4 ins. 10 ins. in the ground for standard cor. of secs. 35 and 36, marked S C on N; with 1 groove on E. and 5 grooves on W. face; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft.

RESURVEY OF THE SALT LAKE BASE LINE THROUGH R. 8 W.

and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

The old cor. which I destroy, bears S. 77° E. 2.50 chs. dist. This cor. is a sand stone partially decomposed.

Land almost level,

Soil clay and alkali 3" and 4" rate.

No timber or undergrowth.

East, on S. bdy. of sec. 36.

Over almost level alkali land.

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 a quartzite stone 18x7x6 ins. 12 ins. in the ground for standard ¼ sec. cor.; marked S C ½ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

No trace of old cor. could be found.

No difference between measurements of 80.00 chs. by two sets of chainmen.

80.00 Set a quartzite stone 18x6x6 ins. 12 ins. in the ground for standard cor. of Tp. 1 N. Rs. 7 and 8 W., marked

S C 1 N on N.,

7 W on E., and

8 W on W. face, with 6 grooves on N., E. and W. faces; dig pits 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and N. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2½ ft. high N. of cor.

Remains of old cor. bear S. 70° E. 2.80 chs. dist. I destroy all traces of old cor., a quartzite stone.

Land level,

RESURVEY OF THE SALT LAKE BASE LINE THROUGH R. 8 W.

Soil alkali and clay, 3" and 4" rate.

No timber or undergrowth.

RESURVEY OF THE SALT LAKE BASE LINE THROUGH R. 7 W.

East, on S. bdy. of sec. 31.

Over almost level alkali land.

19.85 Dry bed of slough 60 lks. wide, 2 ft. deep, drains N. 30° E.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set a quartzite stone 15x8x5 ins. 10 ins. in the ground for standard ¼ sec. cor., marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Fail to find any trace of old cor.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 2 lks.; position of middle point

By 1st set, 79.99 chs.

By 2nd set, 80.01 chs.; the mean of which is

80.00 Set a quartzite stone 18x9x4 ins. 12 ins. in the ground for standard cor. of secs. 31 and 32, marked S C on N; with 5 grooves on E. and 1 groove on W. face; dig pits 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

After dilligent search, I fail to find any trace of old cor.

Land level.

Soil, alkali and clay, 3" rate.

No timber or undergrowth.

RESURVEY OF THE SALT LAKE BASE LINE THROUGH RS. 7 & 8 W.

East, on S. bdy. of sec. 32.

Over level alkali land.

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 a quartzite stone 15x7x6 ins. 10 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

All traces of the old cor. have disappeared.

Land level.

Soil alkali and clay, 3" rate.

No timber or undergrowth.

July 14, 1906.

For general description see field notes of subdivisions of township 1 south ranges 7 and 8 west.

Thomas J. Stockley

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 Alonzo J. Stookey, 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 Salt Lake Base line through Ranges 7 and 8 West of the Salt Lake Meridian, Utah, showing the respective capacities in which they acted:

David Sharp — Chainman.
W. Ambrose Green — Chainman.
Allen E. Bowden — Chainman.
Lionel J. Stookey — Moundman.
Lionel J. Stookey — Moundman.
Axman.
Axman.
Lincoln A. Stookey — Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in re-surveying all those parts or portions of the Salt Lake Base Line through Ranges 7 and 8 West of the Salt 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 re-surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

W. Ambrose Green — Chainman.
Allen E. Bowden — Chainman.
Moundman.
Moundman.
Axman.
Axman.
Lincoln A. Stookey — Flagman.

Subscribed and sworn to before me this 14th day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, a United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of t 14th day of April, 1906 I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of t United States, resurveyed all those parts or portions of the Salt Lake Base Line through Ranges 7 and 8 West

of the Salt Lake meridian, in the State of Utah, which are represented in t foregoing field notes as having been resurveyed by me, and under my direction; and I do further solem swear that all the corners of said resurvey have been established and perpetuated in strict accordance w the Manual of Surveying Instructions, and the special written instructions of the United States Surve General for Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such resurvey.

Alonzo J. Stookey
United States Deputy Surve

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 190

The foregoing field notes of the resurvey of the Salt Lake Base line, through Ranges 7 and 8 West of the Salt Lake Meridian, Utah.

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, having b critically examined, and the necessary corrections and explanations made, the said field notes, and resurveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Genc

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 Genc

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BOOK A-336

E.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

Township No. 1 South of Range No. 8 West

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 293, *dated* April 14, 1906., *190*

Survey commenced July 16, 1906., *190*

Survey completed July 25, 1906., *190*

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BOOK A 336

NAMES AND DUTIES OF ASSISTANTS.

David Shark Jr. Chainman

Jacob Lucas Chainman

Samuel J. Stokes Marksman

Simeon M. Stokes Flagman

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BOOK A-336

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr and Ambrose Green

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement and resurvey of the South boundary of Tp. 1 South of Range 8 West of the Salt Lake Base and Meridian in the State of Utah.

David Sharp Jr, Chainman

Ambrose Green, Chainman

Subscribed and sworn to before me this 14 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, Lionel J. Stookey 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 retracement and resurvey of the South boundary of Tp. 1 South Range 8 West of the Salt Lake Base and Meridian in the State of Utah.

Lionel J. Stookey, Moundman

, Moundman

Subscribed and sworn to before me this 14 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, and

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

, Axman

, Axman

Subscribed and sworn to before me this day of 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement and resurvey of the South boundary of Tp. 1 South of Range 8 West of the Salt Lake Base and Meridian in the State of Utah.

Lincoln A. Stookey, Flagman

Subscribed and sworn to before me this 14 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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RETRACEMENT SOUTH BOUNDARY OF T. 1 S. R 8 W.

Survey commenced July 15, 1906, for description of transit etc., see Book "A".

I begin at the cor. of Tps. 1 and 2 S. Rs. 7 and 8 W. as re-established by myself and heretofore described. Latitude 40° 41' N., longitude 112° 42' W.

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

At 5:06 p. m., l. m. t., I set off 40° 41' on the lat. arc; 21° 35' N. on the decl. arc; and mark the meridian determined with the solar, by a tack driven into a woodenplug firmly set in the ground 5 chs. N. of the instrument.

At 11:57 p. m., l. m. t., Iobserve Polaris at eastern elongation, in accordance with instructions in the Manual, and mark the line thus determined by a tack driven into a woodon peg set in the ground, 5 chs. N. of my station.

July 15, 1906.

July 16: At 7 a. m., I lay off the azimuth of Polaris 1° 35' to the west and mark the meridian thus determined by cutting a small groove in the peg set last evening, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 8 h 6 m a. m., l. m. t., I set off 40° 41' on the lat. arc; 21°28' N. on the decl. arc, and mark the true meridian determined with the solar, by a groove on the peg already set 5 chs. N. of my station; this mark falls 0.4 ins. west of the meridian established by the Polaris observation.

The solar apparatus by p. m. and a. m. observations,

RETRACEMENT SOUTH BOUNDARY OF T. 1 S. R. 8 W

defines positions for meridians, about 0'21" ~~east~~ west and 0'16" ~~west~~ 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 meridian, at 8 h 30 m a. m., is N. 17° 25' W.; the angle thus determined gives the mag. decl. 17° 25' east.

From the Tp. cor. above described, flags previously set at the cors. of secs. 1, 2, 35, and 36; 2, 3, 34, and 35; and also at the cor. of Tps. 1 and 2 S., Rs. 8 and 9 W., are plainly visible. Therefore I run

N. 89° 47' W. for said flags, on retracement line bet. secs. 1 and 36.

Over almost level alkali land.

24.50 Road from Burnt Spring to Low Pass, bears N.46° W. and S. 46° E.

25.00 Pipe line from Burnt Spring to Low Pass, bears N.46° W. and S. 46° E.

39.97 Intersect the remains of the old ¼ sec. cor. which is a limestone 3x6x7 ins. above ground very much decomposed by salt. This I destroy and re-establish the cor. by setting a lime stone 15x8x5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

79.93 Intersect the remains of the old sec. cor. which is a quatzite stone 4x5x6 ins. above ground very much decomposed by the action of salt.

I destroy all traces of the old cor. and set in its place a lime stone 18x7x6 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35, and 36, marked with 1 notch on E. and 5 notches on W. edges.; dig pits 18x18x12 ins. in each sec. 5½ ft. dist. and raise a mound of

earth 4 ft. base 2 ft. high W. of cor.
Land level.
Soil alkali and clay, 3" rate.
No timber or undergrowth.

N. 89° 47' W. bet. secs. 2 and 35.
Over level alkali land.
39.93 Decomposed remains of sand stone, supposed to be the old $\frac{1}{4}$ sec. cor.
I re-establish this cor. by setting a limestone 15x9x4 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18x18x12 ins. E. and W, of stone 3 ft dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
79.93 Intersect the old sec. cor. wich is a quartzite stone 3x8x8 ins. above ground very much decomposed, this I destroy and set in its place a lime stone 18x8x5 ins. 12 ins. in the ground for cor. of secs. 2, 3, 34, and 35, marked with 2 notches on E. and 4 notches on W. edge; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land level.
Soil alkali and clay 3" rate.
No timber or undergrowth.
July 16: At this cor. I set off 21° 26' N. on the decl. arc; and at 0 h 6 m, p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 41'.

RESURVEY SOUTH BOUNDARY OF T 1 S R 8 W

Knowing that some of the cors. on this line are missing, and others out in alinement, and that there are no subdivisions depending thereon, I proceed to resurvey it as follows:

From the cor. of secs. 2, 3, 34, and 35, heretofore described I run

N. 89° 47' W., for flag at cor. of Tps. 1 and 2 S., Rs. 8 and 9 W.

Over level alkali land.

40.00 Set a limestone 18x9x5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

All traces of the old cor. have disappeared.

47.00 Stream of slightly brackish water 15 lks. wide 2 ft. deep, drains N. 38° E.

80.00 Set a quartzite stone 18x8x5 ins. 12 ins in the ground for cor of secs. 3, 4, 33, and 34, marked with 3 nothes on E. and W. edges; 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. Find no trace of old sec. cor.

Land level.

Soil alkali and clay, 2" and 3" rate.

No timber or undergrowth.

N. 89° 47' W. bet. secs. 4 and 33.

Over level alkali land.

39.00 Dry bed of salt slough 40 lks. wide 2 ft. deep, drains N.15° E.

40.00 Set a quartzite stone 15x8x6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound

RESURVEY SOUTH BOUNDARY OF T. 1 S. R. 8 W.

of earth 3½ ft. base 1½ ft. high N. of cor.
All traces of old ¼ sec. cor. have disappeared.
80.00 Set a lime stone 15x8x5 ins. 10 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, marked with 4 notches on E. and 2 notches on W. edge; 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.
The old cor., a lime stone 3x6x7 ins. above ground very much decomposed, I destroy.
Land almost level.
Soil alkali and clay, 3" rate.
No timber or undergrowth.

N. 89° 47' W. bet. secs. 5 and 32.
Over almost level alkali land.
40.00 Set a quartzite stone 15x8x6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
No definite trace of the old cor. can be found.
80.00 Set a lime stone 18x8x4 ins 12 ins. in the ground for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on E. and 1 notch on W. edge; 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.
The old cor., a lime stone very much decomposed and lying loose on the ground, bears S. 15 lks. dist.
This I destroy.
Land level, soil alkali and clay, 3" rate.
No timber or under growth.

RESURVEY SOUTH BOUNDARY OF T. 1 S. R. 8 W.

N. 89° 47' W. bet. secs. 6 and 31.

Over gently rolling land.

17.50 Begin ascent of extreme north point of sand ridge, bears N. and S.

18.00 Top of ridge 10 ft. high, bears N and S.

19.00 Foot of descent, bears N and S. and enter level alkali land.

25.00 Dry bed of salt slough 50 lks. wide 2 ft. deep, drains N. 30° E.

40.00 Set a quartzite stone 15x8x5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

After dilligent search, I fail to find any trace of the old cor.

79.65 Intersect the cor. of Tps. 1 and 2 S., Rs. 8 and 9 W., which is a lime stone 6x6x6 ins. above ground marked and witnessed as described by the surveyor general.

Land almost level.

Soil alkali, sand and clay, 3" rate.

No timber or undergrowth.

July 16, 1906.

For general description see fieldnotes of subdivisions of township 1 south range 8 west.

Thomas J. Stookey

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 Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and ...king the lines and corners described in the foregoing field notes of the ~~survey~~ retracement the South boundary of Tp. 1 South of Range 8 West Salt Lake Place and Meridian in the ...wing t...e ...pective capacities in which they acted:

David Sharp Jr. — Chainman.
...zera — Chainman.
...ionel Stookey — Moundman.
— Moundman.
— Axman.
— Axman.
...tookey — Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all ...e par... or portions of the retracement and resurvey of South boundary of Tp. 1 South of ...nge 8 West of the Salt Lake ...ce and meridian, State of Utah, which are represented ...e foregoing field notes as having been retraced and re-surveyed by him and under his direction; and that said retracement and re-survey ...been in all respects, to the best of our knowledge and belief, well and faithfully retraced and re-surveyed, and the ...r monuments established, according to the instructions furnished by the United States Surveyor ...ral for Utah.

David Sharp Jr. — Chainman.
Ambrose Ozzen — Chainman.
J. Stookey — Moundman.
— Moundman.
— Axman.
— Axman.
A. Stookey — Flagman.

...ribed and sworn to before me this 15 ...ay of July, 190 6

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of April, 1906, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement and resurvey of the South boundary of Tp. 1 South of Range 8 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such retracement and resurvey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907.

SEAL

Thomas Hull
By S. Shuvaya, Clerk
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 19

The foregoing field notes of the ~~survey~~ retracement and resurvey of the South Boundary of Township No. 1 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906; having critically examined, and the necessary corrections and explanations made, the said field notes, and ~~surveys~~ retracements and 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-336

D.

FIELD NOTES

RESURVEY
OF THE ~~SURVEY~~ OF THE

R A N G E L I N E

through

Township No. 1 South between Ranges Nos. 7 and 8 West.

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

ler his Contract No. 293, *dated* April 14, 1906, *190*

vey commenced July 15, 1906, *190*

vey completed July 15, 1906, *190*

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BOOK A-236

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr	Chainman
Andrew Green	Chainman
Lionel J. Stookey	Moundman
Lincoln A. Stookey	Flagman

BOOK A-336

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Shark Jr. and Ambrose Green 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 the range line through the 7th and 8th bet. ranges 7 and 8 E. of the Salt Lake Base and Meridian in the State of Utah.

David Shark Jr., Chainman.
Ambrose Green, Chainman.

Subscribed and sworn to before me this 15 day of July, 1906.

SEAL

Abram J. Stookey
U.S. Deputy Surveyor

WE, Lionel J. Stookey 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 resurvey of the range line through the 7th and 8th bet. ranges 7 and 8 E. of the Salt Lake Base and Meridian in the State of Utah.

Lionel J. Stookey, Moundman.
....., Moundman.

Subscribed and sworn to before me this 15 day of July, 1906.

SEAL

Abram J. Stookey
U.S. Deputy Surveyor

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 resurvey of .....

.....

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

SEAL

I, Lincoln A. Stookey, 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 range line through the 7th and 8th bet. ranges 7 and 8 E. of the Salt Lake Base and Meridian in the State of Utah.

Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 15 day of July, 1906.

SEAL

Abram J. Stookey
U.S. Deputy Surveyor

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RESURVEY OF RANGE LINE THROUGH T. 1 S., BET.RS. 7 and 8 W.

Chains.	
	Survey commenced July 15, 1906 and executed with the instrument described in book "A".
	Knowing from recent observations made July 13 and 14 on the Salt Lake Base line, see Book "B", that my instrument is in adjustment, I deem it unnecessary to make tests on a Polaris meridian. Also knowing from previous surveys that no part of the range line through T.1 S., bet.Rs.7 and 8 W. is in alinement, and that some of the corners are missing and others nearly obliterated; and, as these townships have not been subdivided, I resurvey the range line as follows:
	The old cor.of Tps.1 and 2 S., Rs.7 and 8 W.is a blue quartzite stone about 11x10x8 ins.in mound of stone, greatly disintegrated by action of salt, and marks nearly obliterated. I destroy all traces of the old corner and re-establish it at the same point as follows:
	Set a limestone 18x8x8 ins., 12 ins.in the ground, for cor.of Tps.1 and 2 S., Rs.7 and 8 W., marked 1 S on NE, 7 W.on SE, 2 S on SW. , and 8 W on NW.faces; with 6 notches on each edge; and raise a mound of stone 2 ft.base, 1½ ft.high S.of cor.Pits impracticable.
	At this cor.at 8h.06m.a.m.l.m.t.I set off 40° 41'N.on lat.arc; 21° 38'N.on decl.arc; and determine a meridian with the solar. Thence I run
	North bet.secs.31 and 36,
	Over level alkali land.
40.00	Set a limestone 15x8x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
	No trace of old ¼ sec.cor.can be found.
41.00	Leave alkali land bears N.20° E. and S.20° W.; and enter dense shadscale undergrowth.

RESURVEY OF RANGE LINE THROUGH T.1 S., BET.RS. 7 AND 8 W.

Chains.	
80.00	Set a limestone 18x7x6 ins., 12 ins.in the ground,for cor. of secs.25,30,31, and 36, marked with 5 notches on N. and 1 notch on S.edge; 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.
39.41	The old sec.cor.,a quartzite stone 12x8x6 ins. lying loose on ground SE.about 60 lks. I destroy it.
	Land, almost level.
	Soil alkali and clay; 2d and 3d rate.
	No timber. Undergrowth shadscale.
	Land covered with dense shadscale undergrowth 39.00 chs.
	North bet.secs. 25 and 30,
	Over level alkali land; through dense shadscale undergrowth.
22.28	Road from Burnt Spring to Low Pass bears N.45°W. and S. 45° E.
40.00	Set a limestone 15x7x6 ins., 10 ins.in the ground,for ¼ sec.cor., mkd.¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
	The old ¼ sec.cor. a gray sandstone 10x10x6 ins.lying loose on ground SE.about 1 ch., which I destroy.
68.00	Begin gentle ascent.
73.00	Ascend becomes steep; base of Lone Rock bears N. and W.
76.00	Top of ascent, bears E. and W.
	Lone Rock, a limestone pinnacle about 1 ch.dia.across top and 200 ft.high bears E.about 3 chs.dist.
	Descend over ledges.
78.00	Foot of ledges.
80.00	Set a limestone 15x7x5 ins., 10 ins.in the ground for cor.of secs.19,24,25, and 30,mkd.4 notches on N. and 2 notches on S.edge; raise a mound of stone 2 ft.base 1½ ft.high W.of cor. Find no trace of old sec.cor.
	Land level or broken.

RESURVEY OF THE RANGE LINE THROUGH T. 1S. BET. RS. 7 and 8 W.

Soil clay and gravel 2d rate.
No timber. Undergrowth shadscale.
Land covered with dense undergrowth 80.00 chs.

North, bet. secs. 19 and 24.

Down gentle descent, through debse shadscale undergrowth

2.00 Foot of descent, proceed over level land.

40.00 Set a lime stone 15 X 8 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

The old ¼ sec. cor. which I destroy, bears E. about 1 ch. dist., a limestone 16x12x8 ins.

80.00 Reset the old cor. which is a limestone 15 X 8 X 7 ins. set 10 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5 ½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level. Soil, clay, 2d rate.

No timber. Undergrowth shadscale.

Land covered with dense undergrowth 80.00 chs.

North, bet. secs. 13 and 18.

Over level land, through dense shadscale and greasewood undergrowth.

40.00 Set a sand stone 15 X 7 X 6 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

After diligent search fail to find any trace of old ¼ sec. cor.

80.00 Set a limestone 18 X 6 X 5 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13, and 18, marked with 2 notches on N. and 4 notches on S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

RESURVEY OF THE RANGE LINE THROUGH T. 1 S. BET. RS. 7 AND 8 W.

The remains of the old sec. cor. lying loose on the ground, a limestone 15x10x10 ins., S.84°E.2.30 chs. I destroy it.

Land level.----Soil, clay 2d rate.

No timber. Undergrowth shadscale and greasewood.

Land covered with dense undergrowth 80.00 chs.

North, bet. secs. 7 and 12.

Over level land, through dense shadscale and grease wood undergrowth.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

Fail to find any trace of the old ¼ sec. cor.

68.60 Leave dense undergrowth, bears N. 65° W. and S. 65° E., also road from Grantsville to Low Pass, same bearing.

Enter alkali land.

74.12 Western Pacific Ry. track, bears N. 79° W. and S. 79° E.

80.00 Reset the old cor. a limestone 15 X 8 X 7ins. 10 ins. in the ground for cor. of secs. 1, 6, 7, and 12, marked with 1 notch on N. and 5 notches on S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land almost level.

Soil clay and alkali 2" and 3" rate.

Land covered with dense undergrowth 68.60 chs.

July 15: At this corner, I set off 21° 36' N. on the decl arc; and at 0h:06m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 45'.

North, bet. secs. 1 and 6.

Over almost level alkali land.

40.00 Set a sand stone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

RESURVEY OF THE RANGE LINE THROUGH T. 1 S. BET. RS. 7 AND 8 W.

The old $\frac{1}{4}$ sec. cor., apost 6 X 2 ins. $2\frac{1}{2}$ ft. long I destroy.

52.50 Dry bed of slough 1 ch. wide, drains N. 80° E.

77.00 Dry bed of slough 50 lks wide, drains N. 65° E.

81.87 Intersect the Salt Lake Base Line. 1121 chs. W. of Base Line corner. of Tp. 1 N. Rs. 7 and 8 W. as established by myself and heretofore described.

Set a quartzite stone 18 X 7 X 6 ins. 12 ins in the ground for closing cor. of Tp. 1 S. Rs. 7 and 8 W. marked CC1 S on S.,

7 W on E., and

8 W on W. face; with 6 grooves on S. E. and W. faces; dig pits 30 X 24 X 12 ins. crosswise on each line, E. and W., 4 ft., and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high S. of cor.

Remains of old cor. which I destroy, bear E. about 3.50 chs. dist. , a limestone 16x10x8 ins.

Land almost level.

Soil alkali and clay 3" rate.

No timber. July 15, 1906.

For general description see fieldnotes of subdivisions of township 1 south of range 8 west.

Alonzo J. Stanley

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 Alonzo J. Stookey, 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 range through Tp. 1 South bet. ranges 7 and 8 West of the Salt Lake Base and Meridian, in the State of Utah, giving the respective capacities in which they acted:

David Sharp Jr., Chainman.
Green, Chainman.
Jos. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all parts or portions of the Range line through Tp. 1 bet. ranges 7 and 8 West, of the Salt Lake Bse 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 proper monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr., Chainman.
Geo. Green, Chainman.
J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
A. Stookey, Flagman.

Subscribed and sworn to before me this 15 day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14 day of April, 1906 I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States General for Utah, the Manual of Surveying Instructions, and the laws of United States, re surveyed all those parts or portions of the range line through Tp. 1 South, bet. ranges 7 and 8 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been re surveyed by me, and under my direction; and I do further sole swear that all the corners of said re survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surve General for Utah and in the specific manner described in the field notes, and t the foregoing are the original field notes of such re survey.

Alonzo J. Stookey
United States Deputy Su

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 19

The foregoing field notes of the re survey of the Range line through Township No 1 South, between Ranges Nos. 7 and 8 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey
under his contract No. 293, dated April 14, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, and re surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

United States Surveyor G

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SUBDIVISIONS OF T. I S. R. 7 W.

	30° E.
40.00	Set a limestone 15 X 10 X 4 ins. 10 ins. in the ground for. ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00	Set a limestone 18 X 6 X 6 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land gently rolling and level,
	Soil stony clay and sand 2d rate. No timber.
	Land covered with dense shadscale undergrowth 80.00 chs
	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 28, 29, 32, and 33.
	Thence I run
	West on a true line bet. secs. 29 and 32.
	Over broken mountainous ~~mountainous~~ land, through dense bastard mahogany and sagebrush undergrowth.
25.00	Begin steep descent, bears N. and S.
30.00	Foot of steep descent, bears N. and S., and enter bench land. This point is 150 ft. below ridge.
40.00	Set a quartzite stone 18 X 6 X 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.
71.00	Road from Grantsville to Iosepa, bears N. 15° E. and S 15° W.
80.00	The cor. of secs. 29, 30, 31, and 32.
	Land mountainous and gently undulating,
	Soil stony and gravelly 2" and 3" rate, No timber.
	Mountainous land, or covered with dense undergrowth 80.chs

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr.	Chainman
Andrew Green	Chainman
Lionel J. Stokes	Rodman
Lincoln A. Stokes	Flagman

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BOOK A-336

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Sharp Jr. and Ambrosie Green do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the subdivisions of Th. South of Range 8 West of the Salt Lake Base and Meridian in the State of Utah

David Sharp Jr., Chainm.

Ambrose Green, Chainm.

Subscribed and sworn to before me this 16 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~WE~~, Lionel J. Stookey 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 the subdivisions of Th. South of Range 8 West of the Salt Lake Base and Meridian in the State of Utah

Lionel J. Stookey, Moundm.

, Moundm.

Subscribed and sworn to before me this 16 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

WE, and

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

, Axm

, Axm

Subscribed and sworn to before me this day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of the subdivisions of Th. South of Range 8 West of the Salt Lake Base and Meridian in the State of Ut

Lincoln A. Stookey, Flag

Subscribed and sworn to before me this 16 day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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SUBDIVISIONS OF T.1 S. R. 8 W.

Survey commenced July 16, 1906. for description of transit etc. see book "A".

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

At the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the Tp. as re-established by myself and heretofore described; I set off 40° 41' on the lat. arc; 21° 25' N on the decl. arc; and, at 3^h 6^m p.m 1. m. t., determine with the solar a meridian and mark a point thereof, on a peg firmly set in the ground, 5 chs. N. of the cor.

At 11:53 p. m., l.m.t., Iobserve Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven into the ground, 5 chs. N. of my station.

July 16, 1906.

July 17: At 7^ha. m., l. m. t., I lay off the azimuth of Polaris, 1° 35' to the west, and mark the meridian thus determined, by driving a tack into the peg set July 16, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8^h 6^m a.m 1. m. t., I set off 40° 41', on the lat. arc; 21° 19' on the decl. arc; and mark a point in the meridian determined with the solar, by a tack driven into the peg already set 5 chs. N. of my station; this mark falls 0.4 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 0'21" west and 0'21" east of the meridian established by Polaris observations; therefore, I conclude that the

adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian, at 8:30 a. m. is N. 17° 24' W.; the angle thus determined gives the mag. decl. 17° 24' E.

From the sec. cor. already described, I run
N. 0° 01' W. bet. secs. 35 and 36.
Over level alkali land.

40.00 Set a limestone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. cor.

58.95 Pipe line from Burnt Spring to Low Pass, bears N. 45° W. and S. 45° E.

59.90 Road from Burnt Spring to Low Pass, bears N. 45° W. and S. 45 °E.

69.00 Leave alkali land, bears N. 46° W. and S. 46°E, enter dense shadscale undergrowth.

80.00 Set a limestone 15 X 8 X 7 ins. 10 ins. in the ground for cor. of secs. 25, 26, 35, and 36, marked with one notch no S. and E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,
Soil alkali and clay, 3" rate,
Land covered with dense shadscale undergrowth 11 chs.
No timber.

S. 89° 47' E on a random line bet. secs. 25 and 36.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect the E. bdy. of the Tp. 7 lks. S. of the cor. of secs. 25, 30, 31, and 36, as established by myself and heretofore described.

Thence I run
N. 89°50' W. on a true line bet. secs. 25 and 36.
Over almost level land, through dense shadscale under-

SUBDIVISIONS OF T. 1 S. R. 8 W.

growth.

39.97 Set a limestone 15 X 7 X 5 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land almost level,

Soil clay 2" rate,

Land covered with dense shadscale undergrowth. 79.94 chs

No timber.

N. 0° 01' W. bet. secs. 25 and 26.

Over level land, through dense shadscale undergrowth.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

72.00 Begin gentle descent.

73.00 Foot of descent bears N. 45° E. and S. 45° W. and enter alkali land.

80.00 Set a limestone 18 X 7 X 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil clay and alkali, 2" rate,

Land covered with dense shadscale undergrowth. 73.00 chs

No timber.

S. 89° 50' E. on a random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect E. bdy. of the Tp. 2 lks. S. of cor. of secs. 19, 24, 25, and 30, as established by myself and heretofore described.

Thence I run

N. 89° 51' W. on a true line bet. secs. 24 and 25.

SUBDIVISIONS OF T. 1 S. R. 8 W.

	Over rolling ground, through dense shadscale undergrowth descending from base of Lone Rock.
4.00	Foot of base of Lone Rock, bears N. and S., enter level land.
9.00	Road bears N. 30° W. and S. 30° E.
19.00	Road bears N. 35° W. and S. 35° E.
25.00	Road bears N. 40° W. and S. 40°E.
39.95	Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3ft. dist. and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
46.15	Road bears N. 20° W. and S. 20° E.
62.60	Leave dense undergrowth, bears N. 70°E. and S.70° W., enter alkali land.
79.90	The cor. of secs. 23, 24, 25, and 26.
	Land rolling or level,
	Soli clay and alkali, 2" and 3" rate,
	Land covered with dense shadscale undergrowth 62.60 chs.
	No timber.
	N. 0° 01' W. bet. secs. 23 and 24.
	Over level alkali land.
20.00	Leave alkali land, enter dense shadscale undergrowth, bears N. 35° W. and S. 35° E.
40.00	Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.
62.25	Road bears N. 46° W. and S. 46° E.
80.00	Set a limestone 15 X 7 X 6 ins. 10 ins. in the ground for cor. of secs. 13, 14, 23, and 24, marked with 3 notches on S. and 1 notch on E. edges; dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land almost level,
	Soil alkali and clay 2" and 3" rate, No timber.
	Land covered with dense shadscale undergrowth, 60.00 chs.

Chains. July 17: At this cor.I set off 21° 17'N.on decl.arc; and at 0h.06 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 43'N.

S.89° 51'E.on a random line bet.secs.13 and 24,

40.00 Set temp.¼ sec.cor.

80.00 Intersect E.bdy.of Tp.11 1ks.N.of cor.of secs.13,18,19 & 24,established by me and heretofore described.Thence I run N.89° 46'W.on true line bet.secs.13 and 24, Over level land; through dense shadscale undergrowth.

6.00 Road bears N.10° W. and S.10° E.

31.00 Road bears N.20° W. and S.20° E.

40.00 Set a limestone 15x10x4 ins., 10 ins.in ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins. E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

46.20 Road,Burnt Spring to Low Pass, bears N.20° W. & S.20°E.

80.00 The cor.of secs.13,14,23, and 24.

Land level. Soil clay, 3d rate.
No timber. Undergrowth shadscale.
Land covered with dense undergrowth 80.00 chs.

N.0°01'W.bet.secs.13 and 14.

Over level land; through dense shadscale undergrowth.

9.00 Leave dense undergrowth bears N.35° W. and S.35° E.

Enter whitesage flat.

40.00 Leave whitesage flat, bears E. and W.; enter dense shadscale undergrowth.

Set a limestone 15x7x5 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 15x8x8 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.edges; dig pits 18x18x12 ins.in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.

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SUBDIVISIONS OF T. 1 S. R. 8 W.

Chains	
	base, 2 ft.high W. of cor.
	Land level. Soil clay; 3d rate. No timber. Undergrowth white sage and shadscale. Land covered with dense undergrowth 49.00 chs. July 17, 1906.
	July 18: Sky overcast; observation for meridian impossible.
	S.89°46'E.on random line bet.secs.12 and 13,
40.00	Set temp.¼ sec.cor.
79.96	Intersect E.bdy.of Tp.4 lks.S.of cor.of secs.7,12,13, and 18, established by me and heretofore described.
	Thence I run
	N.89° 48'W.on true line bet.secs.12 and 13,
	Over level land; through dense shadscale undergrowth.
39.98	Set a limestone 15x7x5 ins., 10 ins.in ground for ¼ sec. cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft. base, 1½ ft.high N.of cor.
74.55	Road,Burnt Spr.to Low Pass bears N.20°W.& S.20°E.
79.96	The cor.of secs.11,12,13, and 14. Land level. Soil clay; 3d rate. No timber. Undergrowth shadscale. Land covered with dense undergrowth 79.96 chs.
	N.0°01'W.bet.secs.11 and 12,
	Over level land; through dense shadscale and greasewood undergrowth.
13.55	Road Burnt Spr.from Low Pass bears N.20°W. & S.20° E.
	Leave dense undergrowth; enter alkali land.
40.00	Set a limestone 15x7x5 ins., 10 ins.in the ground,for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins. N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.
	July 18: At this cor.I set off 21° 06'N.on decl.arc; and at 0 h.06m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 45'N.
80.00	Set a limestone 18x8x6 ins., 12 ins.in the ground, for corner of secs.1, 2, 11, and 12, marked with 3 notches

SUBDIVISIONS OF T. 1 S. R. 8 W.

on S. and 1 notch on E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil clay and alkali 3" rate,

Land covered with dense shadscale undergrowth, 13. 55 chs

No timber.

S. 89° 48' E. on a random bet. secs. 1 and 12.

40.00 Set temp. ¼ sec. cor.

79.95 Intersect the E. bdy. of the Tp. 2 lks. N. of the cor. of secs. 1, 6, 7, and 12, as established by myself and heretofore described.

Thence I run

N. 89° 47' W. on a true line bet. secs. 1 and 12.

Over level alkali land.

20.00 Road from Grantville to Low Pass, bears N. 60° W. and S. 60° E.

31.70 Western Pacific Ry. track, bears N. 79° W. and S. 79° E.

39.97½ Set a limestone 16 X 8 X 7 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land level,

Sand, clay, and alkali, 2" and 3" rate,

No timber.

N. 0° 01' W. bet. secs. 1 and 2.

Over level alkali land.

9.17 Western Pacific Ry. track, bears N. 79° W. and S. 79° E.

18.53 Road from Grantville to Low Pass, bears N. 79° W. and S. 79° E.

31.10 Salt slough 15 lks. wide, drains E. The slough bridge lies about 30 chs. W.

40.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W, face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

46.00 Salt slough 1.00 ch. wide, drains N. 70° E.

81.57 Intersect Salt Lake Base Line 1.24 chs. W. of the standard cor. of secs. 35 and 36, T. 1N. R. 8 W., as established by myself and heretofore described.

Set a limestone 18 X 8 X 6 ins. 12 ins in the ground for closing cor. of secs. 1 and 2, marked CC on S.; with 1 groove on E. and 5 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

July 18: At 3h6m p.m 1. m. t., I set off 40° 41' on the lat. arc; 21° 05' on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35, on the S. bdy. of the Tp. as established by myself and heretofore described.

Thence I run

N. 0° 02' W. bet. secs. 34 and 35.

Over level salt grass land.

18.00 Leave salt grass bears N. 25° E. and S. 25° W., enter alkali land.

40.00 Set a limestone 15 X 7 X 5 ins, 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 8 X 7 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a

SUBDIVISIONS OF T. 1 S. R. 8 W.

mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali 3" rate.

No timber. July 18, 1906.

July 19: Sky overcast; observation for meridian impossible.
S. 89° 47' E. on a random line bet. secs. 26 and 35.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect the N. and S. line 2 lks. N. of the cor. of secs. 25, 26, 35, and 36.

Thence I, run

N. 89° 46' W. on a true line bet. secs. 26 and 35.

Over level land, through dense undergrowth.

6.00 Leave dense undergrowth, enter alkali land, bears N. and S.

19.60 Road from Burnt Spring to Low Pass, bears N. 45° W. and S. 45° E.

20.00 Pipe Line from Burnt Spring to Low Pass bears N. 45° W. and S. 45° E.

40.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land almost level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 02' W. bet. secs. 26 and 27.

Over level alkali land.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. disf.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

58.40 Pipe Line from Burnt Spring to Low Pass bears N. 40° W. and S. 40° E.

58.75 Road from Burnt Spring to Low Pass bears. N. 40° W. and S. 40° E.

78.50 Enter salt grass bears N. 45° E. and S. 45° W.

SUBDIVISIONS OF T. 1. S. R. 8 W.

80.00	Set a limestone 18 X 6 X 6 ins. 12 ins. in the ground for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on S. and E. edge; dig pits 18 X 18 X12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alkali and clay 2" and 3" rate.
	No timber.
	S. 89° 46' E. on a random line bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the N. and S. line 2 lks. N. of the cor. of sec 23, 24, 25, and 26.
	Thence I run
	N. 89° 45' W. on a true line bet. secs. 23 and 26.
	Over level alkali land.
40.00	Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
78.50	Enter salt grass bears N. 45° E. and S. 45 ° W.
80.00	The cor. of secs. 22, 23, 26, and 27.
	Land level,
	Soil alkali 3" rate.
	No timber.
	N. 0° 02' W. bet. secs. 22 and 23.
	Over level salt grass land.
16.00	Leave salt grass land enter alkali land bears N.40° E. and S. 40° W.
40.00	Set a limestone 15 X 7 X 6 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00	Set a limestone 15 X 7 X 5 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; dig pits 18 X

18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali 3" rate. No timber.

July 19: At this corner, I set off 20° 56' N. on the decl. arc; and at $0^h 6^m$ p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43'.

S. 89° 45' E. on a random line bet. secs. 14 and 23.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect the N. and S. line at the cor. of secs. 13, 14, 23, and 24.

Thence I run

N. 89° 45' W. on a true line bet. secs. 14 abd 23.

Over level land, through dense shadscale undergrowth.

15.00 Leave dense undergrowth bears N. and S., and descend.

16.75 Road bears N. 45° W. and S. 45° E.

18.00 Foot of very gentle descent, bears N. 28° W. and S. 28° E. and enter alkali flat.

39.95 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

48.00 Enter salt grass bears N. and S.

60.00 Leave salt grass bears N. and S.

65.40 Slough or channel drains N. 15 lks. wide.

79.90 The cor. of secs. 14, 15, 22, and 23.

Land almost level,

15/640 Soil clay and alkali 2" and 3" rate,

Land covered with dense shadscale undergrowth 15 chs.

No timber.

July 19: At $3^h 6^m$ p.m. l.m.t., I set off 40° 43' on the lat. arc; 20° 55' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 14, 15, 22, and 23.

Thence I run

N. 0° 02' W. bet. secs. 14 and 15.

SUBDIVISIONS OF T. 1 S. R. 8 W.

	Over level alkali land.
26.30	Dry channel of slough 1 ch. wide, drains N. 15° E.
38.00	Same slough drains, drains N 30° W.
40.00	Set a limestone 15 X 8 X 5 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
46.15	Same slough as last named, drains N. 40° E.
61.00	Road bears N. 60° W. and S. 60° E.
64.50	Same slough as last named, drains N. 15° W.
76.50	Same slough as last named, drains N. 20° E.
80.00	Set a limestone 15 X 10 X 4 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alakli and clay 2" and 3" rate.
	No timber. July 19, 1906.
	July 20: At 8h 6m a.m. l. m. t., I set off 40° 44' on the lat. arc; 20° 47' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 10, 11, 14, and 15.
	Thence I run
	S. 89° 45' E. on a randmo line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 7 lks. S. of the cor. of secs. 11, 12, 13, and 14.
	Thence I run
	N. 89° 48' W. on a true line bet. secs. 11 and 14.
	Over almost level, land, through dense shadscale under-growth.
39.95	Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

SUBDIVISIONS OF T. 1 S. R. 8 W.

56.50 Leave dense undergrowth, bears N. and S., enter alkali land.

76.50 Dry channel of slough 1 ch. wide, drains N. 15° E.

79.90 The cor. of secs. 10, 11, 14, and 15.

Land level,

Soil clay and alkali 2" and 3" rate,

Land covered with dense undergrowth 56.50 chs.

No timber.

N. 0° 02' W. bet. secs. 10 and 11.

Over level land.

40.00 Set a limestone 15 X6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 6 X 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 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

S. 89° 48' E. on a random line bet. secs. 2 and 11.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line at the cor. of secs. 1, 2, 11, and 12.

Thence I run

N. 89° 48' W. on a true line bet. secs. 2 and 11.

Over level alkali land.

20.80 Road bears N. 20° W. and S. 20° E. Low Pass to Burnt Spring

39.97 Set a limestone 15 X 10 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

72.60 Dry channel of slough 1 ch. wide, drains N.

SUBDIVISIONS OF T. 1 S. R. 8 W.

79.94	The cor. of sec. 2, 3, 10, and 11.
	Land level,
	Soil alkali and clay 3" rate. No timber.
	July 20: At this corner, I set off 20° 45' N. on the decl. arc; and at $0^h 6^m$ p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 45'.

	N. 0° 02' W. bet. secs. 2 and 3.
	Over level alkali land.
19.80	Channel of slough, 75 lks. wide, drains E.
24.20	Western Pacific Ry. track, bears N. 79° W. and S. 79° E.
	Land becomes very gently rolling.
40.00	Set a limestone 15 X 8 X 5 ins 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
41.00	Road from Grantsville to Low Pass, bears E. and W.
81.10	Intersect Salt Lake Base Line 97 lks. W. of the standard cor. of secs. 34 & 35 T. 1 N. R. 8 W., as established by myself and heretofore described.
	Set alimestone 15 X 6 X 6 ins. 10 ins. in the ground for closing cor. of secs. 2 and 3, marked CC on S.; with 2 grooves on E. and 4 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land almost level,
	Soil clay and alkali 3" rate.
	No timber. July, 20, 1906.
	July 21: At $8^h 6^m$ a. m. l. m. t., I set off 40° 41' on the lat. arc; 20° 36' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34, on the S. Bdy. of the Tp. as established by

SUBDIVISIONS OF T. 1 S. R. 8 W.

myself and heretofore described.

Thence I run

N. 0° 02' W. bet. secs. 33 and 34.

Over level alkali land.

40.00 Set a limestone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 10 X 8 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 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of eart 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

S. 89°47' E. on a random line bet. secs. 27 and 34.

40.00 Set temp. ¼ sec. cor.

79.98 Intersect N. and S. line at the cor. of secs. 26, 27, 34, and 35.

Thence I run

N. 89° 47' W. on a true line bet. secs.27 and 34.

Over level alkali land.

32.25 Stream of slightly brackish water, 31ks. wide 1 ft. deep, drains N.

39.99 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land level,

Soil alkali and clay, 3" rate.

No timber.

N0° 02' W. bet. secs.27 and 28.

Over level alkali land.

SUBDIVISIONS OF T. 1 S. R. 8 W.

40.00	Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
48.40	Dry channel of slough 75 lks. wide, drains N. 18° E.
80.00	Set a limestone 15 X 7 X 6 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alkali and clay 3" rate.
	No timber.
	S. 89° 47' E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line at the cor of secs. 22, 23, 26, and 27.
	Thence I run
	N. 89° 47' W. on a true line bet. secs. 22 and 27.
	Over level salt grass land.
8.00	Dry bed of slough 75 lks. wide, drains N. 18° E.
10.50	Leave salt grass, bears N. and S.
18.00	Pipe line and road from Burnt Sp ring to Low Pass, bears N. 42° W. and S. 42°E.
39.98	Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
65.00	Dry bed of slough 75 lks. wide, drains N. 15° E.
79.96	The cor. of secs. 21, 22, 27, and 28.
	Land level,
	Soil alkali and clay 3" rate. No timber.
	July 21: At this corner, I set off 20° 34' N. on the decl. arc; and at $0^h 6^m$ p. m., l. m. t., observe the sun on the meridian the resulting lat. is 40° 43'.

SUBDIVISIONS OF T. 1 S. R. 8 W.

N. 0° 02' W. bet. secs. 21 and 22.

Over level alkali land.

40.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins, N. and S. of stone 3 ft. dist. ; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

76.00 Pipe line and road from Burnt Spring to Low Pass, bears N. 45° W. and S. 45° E.

80.00 Set a limestone 15 X 8 X 8ins. 10 ins. in the ground for cor. of secs. 15, 16, 21, and 22, marked

1 S. on NE., and

8 W. on SE. face,

with 3 notches on S. and E. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

S. 89° 47' E. on a random line bet. secs. 15 and 22.

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line 2 lks S. of cor. of secs. 14, 15, 22, and 23.

Thence I run

N. 89° 48' W. on a true line bet. secs. 15 and 22.

Over level alkali land.

7.00 Dry bed of slough 75 lks. wide, drains N. 15° E.

40.02 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

80.04 The cor. of secs. 15, 16, 21, and 22.

Land level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 02' W. bet. secs. 15 and 16.

Over almost level alkali land.

SUBDIVISIONS OF T. 1S. R. 8 W.

40.00	Set a limestone 15 X 9 X 5 ins., 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00	Set a limestone 15 X 7 X 5 ins., 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land almost level,
	Soil alkali and clay 3" rate.
	Notimber. July 21, 1906.
	July 22: At 8h 6m a.m. l. m. t., I set off 40° 44' on the lat. arc; 20° 24' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15, and 16.
	Thence I run
	S. 89° 48' E. on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 14 lks. S. of the cor. of secs. 10, 11, 14, and 15.
	Thence I run
	N. 89° 54' W. on a true line bet. secs. 10 and 15.
	Over almost level alkali land.
26.00	Road bears N. 50° W. and S. 50° E.
40.00	Set a limestone 15 X 7 X 5 ins. 10 ins, in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 9, 10, 15, and 16.
	Land almost level,
	Soil alkali and clay 3" rate.
	No timber.
	N. 0° 02' W. bet. secs. 9 and 10.

SUBDIVISIONS OF T. 1 S. R. 8 W.

Over almost level alkali land

38.75 Road bears N. 50° W. and S. 50° E.

40.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 7 X 5 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise amound of earth 4 ft. base 2 ft. high W. of cor.

Land almost level,

Soil alkali and clay 3" rate. No timber.

July 22: At this corner I set off 20° 22' N. on the decl. arc; and at 0^h 6^m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 45'.

S. 89° 54' E. on a random line bet. sec. 3 and 10.

40.00 Set temp. ¼ sec. cor.

79.98 Intersect N. and S. line at the cor. of secs. 2, 3, 10, and 11.

Thence I run

N. 89° 54' W. on a true line bet. secs. 3 and 10.

Over almost level alkali land.

39.99 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

79.98 The cor. of secs. 3, 4, 9, and 10.

Land almost level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 02' W. bet. secs. 3 and 4.

Over almost level alkali land.

39.50 Western Pacific Ry. track, bears N. 79° W. and S. 79° E.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground

for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

42.30 Dry bed of slough, 75 lks. wide, drains east.

53.30 Road from Grantsville to Low Pass, bears N. 80° W. and S. 80° E.

80.92 Intersect Salt Lake Base Line N. 1 ch. W. of the standard cor. of secs. 33 and 34, T.1 N. R. 8 W., as established by myself and heretofore described.

Set a limestone 18 X 6 X 5 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4, marked CC on S.; with 3 grooves on E. and W. faces; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land almost level,

Soil alkali and clay 3" rate.

No timber.

From the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp., as established by myself and heretofore described,

I run

N. 0° 03' W. bet. secs. 32 and 33

Over level alkali land.

40.00 Set alimestone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 6 X 6 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 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber. July 22, 1906.

SUBDIVISIONS OF T. 1 S. R. 8 W.

July 23: At 8.h 5m a.m l. m. t., I set off 40° 42' on the lat. arc; 20° 12' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32, and 33.

Thence I run

S. 89° 47' E. on a random line bet. secs. 28 and 33.

40.00 Set temp. ¼ sec. cor.

79.96 Intersect N. and S. line 16 lks. S. of the cor. of secs. 27, 28, 33, and 34.

Thence I run

N. 89° 54' W. on a true line bet. secs. 28 and 33.

Over level alkali land.

13.00 Dry bed of slough 75 lks. wide, drains N. 19° E.

39.98 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 03' W. bet. secs. 28 and 29.

Over level alkali land.

40.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor marked ¼ on W. face; dig pits 18 X 18 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 6 X 6 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

S. [illegible] W. on a [illegible] line bet. [illegible] 28.

SUBDIVISIONS OF T. 1 S. R. 8 W.

	S. 89° 54' E. on a random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect the N. and S. line at the cor of secs. 21, 22, 27, and 28.
	Thence I run
	N. 89° 54' W. on a true line bet. secs. 21 and 28.
	Over level alkali land.
39.99	Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.
79.98	The cor. of secs. 20, 21, 28, and 29.
	Land level,
	Soil alkali and clay 3" rate.
	No timber.
	N. 0° 03' W. bet. secs. 20 and 21. [illegible]
	Over level alkali land.
40.00	Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.
80.00	Set a limestone 15 X 6 X 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; dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alkali and clay 3" rate.
	No timber.
	S. 89° 54' E. on a random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect the N. and S. line at the cor. of secs. 15, 16, 21, and 22.
	Thence I run
	N. 89° 54' W. on a true line bet. secs. 16 and 21.

SUBDIVISIONS OF T. 1 S. R. 8 W.

Over level alkali land.

3.00 Road from Burnt Spring to Low Pass, bears N. 38° W. and S. 38° E.

3.30 Pipe line from Burnt Spring to Low Pass, bears N. 38° W. and S. 38° E.

39.90 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 03' W. bet. secs. 16 and 17.

Over almost level alkali land.

40.00 Set a limestone 15 X 9 X 5ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 6 X 5 ins. 12 ins. in the ground for cor. of secs. 8, 9, 16, and 17. marked with 4 notches on S. and E. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land almost level,

Soil alkali and clay 3" rate. No timber.

July 23: At this corner I set off 20° 10' N. on the decl. arc; and at 0^h 6^m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 44'.

S. 89° 54' E. on a random line bet. secs. 9 and 16.

40.00 Set temp ¼ sec. cor.

79.84 Intersect the N. and S. line at the cor. of secs. 9, 10, 15, and 16.

Thence I run

SUBDIVISIONS OF T. 1 S. R. 8 W.

	N. 89° 54' W. on a true line bet. secs. 9 and 16.
	Over almost level alkali land,
39.92	Set a limestone 15 X 7 X 5ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins.E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
52.85	Road from Burnt Spring to Low Pass, bears N. 40° W. and S. 40° E.
53.85	Pipe line from Burnt Spring to Low Pass, bears N. 40° W. and S. 40° E.
79.84	The cor. of secs. 8, 9, 16, and 17.
	Land almost level,
	Soil alkali sand and clay, 3" rate.
	No timber.
	N. 0° 03' W. bet. secs. 8 and 9.
	Over level alkali land.
34.25	Pipe line from Burnt Spring to Low Pass, bears N. 42° W. and S. 42° E.
35.10	Road from Burnt Spring to Low Pass, bears N. 42° W. and S. 42° E.
40.00	Set a quartzite stone 18 X 7 X 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft.high W. of cor.
67.30	Dry bed of slough 75 lks. wide, drains N. 45° E.
80.00	Set a quartzite stone 18 X 6 X 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land almost level,
	Soil clay, alkali, and sand, 2" and 3" rate.
	No timber.
	S. 89° 54' E. on a random line bet. sec. 4 and 9.
40.00	Set temp. ¼ sec. cor.

SUBDIVISIONS OF T. 1 S. R. 8 W.

79.90	Intersect the N. and S. line 5 lks. N. of cor. of secs. 3, 4, 9, and 10.
	Thence I run
	89° 52' W. on a true line bet. secs. 4 and 9.
	Over very gently rolling ground.
39.95	Set a quartzite stone 18 X 7 X 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
67.00	Dry bed of slough 75 lks. wide, drains N. 45° E.
79.90	The cor. of secs. 4, 5, 8, and 9.
	Land almost level, or slightly rolling,
	Soil clay and alkali 3" rate.
	No timber.
	N. 0° 03' W. bet. secs. 4 and 5.
	Over very gently rolling ground.
40.00	Enter dense shadscale undergrowth, bears E. and W.; leave alkali flat.
	Set a quartzite stone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
55.00	Western Pacific Ry. track, bears N. 79° W. and S. 79° E.
66.76	Road from Grantsville to Low Pass, bears N. 85° W. and S. 85° E.
80.61	Intersect Salt Lake Base Line 85 lks. W. of the standard cor. of secs. 32 and 33, T. 1 N. R. 8 W., as established by myself and heretofore described.
4061/4000	Set a quartzite stone 15 X 7 X 6 ins. 10 ins. in the ground for closing cor. of secs. 4 and 5, marked CC on S. with 4 grooves on E., and 2 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft., and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land very gently rolling,
	Soil alkali and clay 3" rate No timber.

SUBDIVISIONS OF T. 1 S. R. 8 W.

Land covered with dense undergrowth 40.81 chs.

July 23, 1906.

July 24: At $8^{h}6^{m}$ a.m l. m. t., I set off 40° 41' on the lat. arc; 20° 00N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31, and 32, on the S. Bdy. of the Tp., as established by myself and heretofore described.

Thence I run

N. 0° 04' W. bet. secs. 31 and 32.

Over level alkali land.

40.00 Set a quartzite stone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

47.50 Dry bed of slough 75 lks. wide, drains N. 35° E.

80.00 Set a lava stone 15 X 7 X 6 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

S. 89° 47' E. on a random line bet. secs. 29 and 32.

40.00 Set temp. ¼ sec. cor.

79.94 Intersect N. and S. line 4 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence I run

N. 89° 45' W. on a true line bet. secs. 29 and 32.

Over level alkali land.

39.97 Set a quartzite stone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

SUBDIVISIONS OF T. 1 S. R. 8 W.

56.40 Dry bed of slough 75 lks. wide, drains N. 25° E.

79.94 The cor. of secs. 29, 30, 31, and 32.

Land level,

Soil alkali and clay 3" rate.

No timber.

N. 89° 47' W. on a random line bet. secs. 30 and 31.

40.00 Set temp. ¼ sec. cor.

79.92 Intersect the W. bdy. of the Tp. 4 lks. S. of the cor. of secs. 25, 30, 31, and 36; as established by myself and heretofore described.

Thence I run

S. 89° 45' E. on a true line bet. secs. 30 and 31.

Over level alkali land.

39.92 Set a quartzite stone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

79.92 The cor. of secs. 29, 30, 31, and 32.

Land level,

Soil alkali and clay 3" rate.

No timber.

N. 0° 04' W. bet. secs. 29 and 30.

Over level alkali land.

40.00 Set a quartzite stone 15 X 6 X 6 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a quartzite stone 15 X 6 X 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3" rate.

No timber.

SUBDIVISIONS OF T. 1 S., R. 8 W.

	S. 89° 45' E. on a random line bet. secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 2 lks. S. of the cor. of secs. 20, 21, 28, and 29.
	Thence I run
	N.89° 46' W. on a true line bet. secs. 20 and 29.
	Over almost level alkali land.
36.00	Dry bed of slough 75 lks. wide, drains N.20° E.
39.97	Set a quartzite stone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.94	The cor. of secs. 19, 20, 29, and 30.
	Land almost level,
	Soil :alkali and clay 3" rate.
	No timber.
	N. 89° 45' W. on a random line bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
79.80	Intersect the W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 19, 24, 25, and 30; as established by myself and heretofore described.
	Thence I run
	S. 89° 46' E. on a true line bet. secs. 19 and 30.
	Over almost level land.
39.80	Set a quartzite stone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor
79.80	The cor. of secs. 19, 20, 29, and 30.
	Land almost level,
	Soil alkali and clay 3" rate. No timber.
	July 24: At this corner, I set off 19° 58' N. on the dec arc; and at 0^h 6^m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43'.

SUBDIVISIONS OF T1 S. R. 8 W.

N. 0° 04' W. bet. secs. 19 and 20.

Over level, or very gently rolling alkali land.

40.00 Set a quartzite stone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a quartzite stone 15 X 7 X 6 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land almost level,

Soil alkali and clay 3" rate.

No timber.

S. 89° 46' E. on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 7 lks. S. of the cor. of secs. 16, 17, 20, and 21.

Thence I run

N. 89° 49' W. on a true line bet. secs. 17 and 20.

Over almost level alkali land.

23.30 Dry bed of slough 70 lks. wide, drains N.

40.00 Set a quartzite stone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise amound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land almost level,

Soil alkali and clay 3" rate.

No timber.

N. 89° 46' W. on a random line bet. secs. 18 and 19.

40.00 Set temp. ¼ sec. cor.

79.68 Intersect the W. bdy. of the Tp. 2 lks. S. of the cor. of secs. 13, 18, 19, and 24, as established by myself and heretofore described.

SUBDIVISIONS OF T. 1 S. R. 8 W.

Thence I run

S. 89° 45' E. on a true line bet. secs. 18 and 19.

Over almost level alkali land.

39.68 Set a quartzite 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor marked ¼ on N face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high, N. of cor.

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

Land almost level,

Soil alkali and clay 3" rate.

No timber. July 24, 1906.

July 25: At 8h 6m p.m l. m. t., I set off 40° 43' on the lat. arc; 19° 47' N on the decl. arc; and determine a meridian with the solar at the cor of secs. 17, 18, 19, and 20.

Thence I run

N. 0° 04' W. bet. secs. 17 and 18.

Over gently rolling clay ground.

40.00 Set a quartzite stone 18 X 7 X 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a quartzite stone 18 X 8 X 6 ins. 12 ins. in the ground for. cor. of secs. 7, 8, 17, and 18; marked with 4 notches on S. and 5 notches on E. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land gently rolling,

Soil clay 3" rate.

No timber.

S. 89° 49' E. on a random line bet. secs. 8 and 17.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 2 lks. S. of the cor. of secs. 8, 9, 16, and 17. Thence I run

R. 8 W.

Chains

N.89° 50'W.on true line bet.secs.8 and 17,

Over almost level land.

23.00 Dry bed of slough 75 lks.wide, drains N.

40.00 Set a quartzite stone 15x7x5 ins.. 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

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

Land slightly rolling.

Soil clay, 3d rate. No timber.

N.89° 45'W.on random line bet.secs.7 and 18,

40.00 Set temp.¼ sec.cor.

79.56 Intersect W.bdy.of Tp.at the cor.of secs.7,12, 13, and 18, as established by me and heretofore described.

Thence I run,

S.89° 45'E.on true line bet.secs.7 and 18,

Over very gently rolling clay and lakali ground.

39.56 Set a quartzite stone 15x6x6 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W .of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.

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

Land very gently rolling.

Soil, alkali and clay; 3d rate. No timber.

N.0°04'W.bet.secs.7 and 8,

Over gently rolling clay and alkali land.

40.00 Set a quartzite stone 15x7x5 ins., 10 ins.in the groun for ¼ sec.cor., marked ¼ on W.face; dig pits 18x18x12 ins.N. and S.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high W.of cor.

80.00 Set a limestone 18x6x6 ins., 12 ins.in the ground,for cor.of secs.5,6,7, and 8, marked with 5 notches on S.

Chains	
	and E.edge; dig pits 18x18x12 ins.in each sec.5½ ft. dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land gently rolling and level.
	Soil alkali and clay; 3d rate. No timber.
	July 25: At this cor. I set off 19° 45'N.on decl.arc; and at 0 h.06 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 40° 45'N.
	S.89° 50'E.on a random line bet.secs.5 and 8,
40.00	Set temp.¼ sec.cor.
79.96	Intersect N. and S.line 4 lks.S.of cor.of secs.4,5,8 and 9. Thence I run
	N.89° 52'W.on a true line bet.secs.5 and 8,
	Over level alkali land.
39.20	Road,Burnt Spring to Low Pass,bears N.45°W.& S.45° E.
39.40	Pipe line from Burnt Spring to Low Pass bears N.45° W. and S.45° E.
39.98	Set a quartzite stone 15x8x5 ins., 10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; dig pits 18x18x12 ins.E. and W.of stone 3 ft.dist.; and raise a mound of earth 3½ ft.base, 1½ ft.high N.of cor.
79.96	The cor.of secs.5,6,7, and 8.
	Land level.
	Soil alkali and clay; 3d rate. No timber.
	N.89° 45'W.on random line bet.secs.6 and 7,
40.00	Set temp.¼ sec.cor.
79.44	Intersect W.bdy.of Tp.at the cor.of secs.1,6,7, and 12, established by myself and heretofore described. Thence I run
	S.89° 45'E.on a true line bet.secs.6 and 7,
	Over almost level alkali land.
39.44	Set a quartzite stone 15x10x5 ins., 10 ins. in the

SUBDIVISIONS OF T. 1S. R. 8 W.

ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

79.44 The cor. of secs. 5, 6, 7, and 8.

Land level and gently rolling,

Soil alkali and clay 4" rate.

No timber.

N. 0° 04' W. bet. secs. 5 and 6.

Over level alkali land.

25.00 Leave alkali land enter gently rolling land and dense shadscale undergrowth.

40.00 Set a quartzite stone 15 X 10 X 4 ins. 10 ins, in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

43.20 Pipe line from Burnt Spring to Low Pass, bears N. 45° W and S. 45° E.

44.00 Road from Burnt Spring to Low Pass, bears N. 42° W. and S. 42° E.

68.00 Western Pacific Ry. track, bears N.W. and S.E.

80.60 Intersect "Salt Lake Base Line", 68 lks. W. of the standard cor. of secs. 31 and 32, T. 1 N. R. 8 W.; as established by myself and heretofore described.

55-60
25-00

Set a quartzite stone 18 X 7 X 6 ins. 12 ins. in the ground for closing cor. of secs. 5 and 6, marked CC on S.; with 5 grooves on E. and 1 groove on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W. 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level and gently rolling,

Soil alkali clay and sand, 2" and 3" rate.

Land covered with dense shadscale undergrowth 55.60 chs.

Notimber. July 25, 1906.

General Description T. 1 S., R. 8 W.

The soil in this township is mainly alkali and clay. With the exception of a small portion in the eastern , and a similar one in the northwestern part, covered with a dense growth of shadscale and greasewood undergrowth, the Tp. is made up of almost level alkali land, affording little or no vegetation. While during the summer months it is usually dry, yet, during the winter and spring the numerous sloughs mentioned in the notes, become large streams and spread far beyond their banks, rendering travel very difficult.

The only elevations in the township are "Lone Rock" in the east, and "Hog's Back" in the northwestern part.

There are no springs, no timber, no indications of mineral; but very little grass or native herbs fit for grazing animals; and of course no settlers.

Alonzo J. Stookey

U.S. Deputy Surveyor.

Boundaries T. 1 S., R. 8 W.

Latitudes, Departures, and Closing Errors.

Line Designated,	True Bearing	Dist.	Latitudes, N.	Latitudes, S.	Departures E.	Departures W
		chs.	chs.	chs.	chs.	ch
Salt Lake Base Line	West	478.79	.....	.....	.....	478.
Guide Meridian	South	480.00	.....	480.00	.....	....
South Boundary	S.89°47'E.	479.51	.....	1.67	479.51	....
East Boundary	North	481.87	481.87	.....	.....	....
Convergency						
Totals,			481.87	481.67	479.51	479.
			481.67		479.42	
Error in lat. and dep.			.20		.09	

Alonzo J. Stookey

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 Alonzo J. Stookey, 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 Sth 1 South of Range 8 West of the Salt Lake Base meridian in the State of Utah, showing the respective capacities in which they acted:

David Sharp Jr, *Chainman.*
Ambrose Green, *Chainman.*
Lionel J. Stookey, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Lincoln A. Stookey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Sec. 18 Range 8 West of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr, *Chainman.*
Ambrose Green, *Chainman.*
Lionel J. Stookey, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
A. Stookey, *Flagman.*

Subscribed and sworn to before me this 25 day of July, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 14th day of April, 1906, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of Tp. 1 South of Range 8 West of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907.

Thomas Hull
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 1907

The foregoing field notes of the survey of the Subdivisional lines of Township No.1 South, Range No.8 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, 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-336

F.

FIELD NOTES

OF THE SURVEY OF THE

SALT LAKE BASE LINE

through

Range 7 West

Of the Salt Lake *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

nder his Contract No. 293, *dated* April 14, 1906., *190*

urvey commenced July 26,, 1906., *190*

urvey completed July 27,, 1906., *190*

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Low 4 40.00

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr.	Chainman
Ambrose Green	Chainman
Lionel J. Stoddey	Chainman
Allen S. Bowden	Chainman
Lionel J. Stoddey	Rodman
Lincoln A. Stoddey	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Sharp Jr, Ambrose Green, Lionel J. Stookey, Allen L. B.
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same
we will report the true distances to all notable objects, and the true lengths of all lines that we a
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su
the Salt Lake Base Line through Range 7 West of the Salt Lake M
Utah

Lionel J. Stookey, David Sharp Jr, Chai
Allen L. Bowden, Ambrose Green, Chai

Subscribed and sworn to before me this 26
day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surve

WE, Lionel J. Stookey and
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establis
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the su
the Salt Lake Base Line through Range 7 West of the Salt L
Meridian, Utah

Lionel J. Stookey, Moun
, Moun

Subscribed and sworn to before me this 26
day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surve

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

Subscribed and sworn to before me this
day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well a
perform the duties of flagman according to instructions given me, to the best of my skill and ability
survey of the Salt Lake Base Line through Range 7 West of th
Lake Meridian Utah

Lincoln A. Stookey, Fl

Subscribed and sworn to before me this 26
day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surve

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Survey commenced July 26, 1906, for description transit etc. see Book "A", of this survey.

I begin at the $\frac{1}{4}$ sec. cor. of sec. 32, on the Salt Lake Base Line, R. 7 W., which I re-established July 14, 1906.

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

At 4h 6m p. m., l. m. t., I set off 40° 46' on the lat. arc; 19° 30' N. on the decl. arc; and mark the meridian thus determined with the solar, by a tack in a peg firmly set in the geound, 5 chs. N. of the instrument.

At 11h 14 m p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the instructions in the Manual, and mark the line thus determined by a tack driven into a peg set in the ground, 5 chs. N. of my station.

July 26, 1906.

July 27: At 7:30 a. m., I lay off the azimuth of Polaris 1° 35' to the west and mark the meridian thus determined by driving a tack into the peg set last evening, on which the meridian falls 0.4 ins. west of the mark determined by the solar.

At 8h 6m a. m., l. m. t., I set off 40° 40' on the lat' arc; 19° 21' N. on the decl. arc, and mark the true meridian determined with the solar, by a cross on the peg already set 5 chs. N. of my station; this mark falls 0.4 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by p. m. and a. m. observations, defines positions for meridians, about 0'21" east and west 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, at 8h 30m a. m., is N. 17° 27' W.; the angle thus determined gives the magnetic decl. 17° 27' east.

From the standard ¼ sec. cor above described, I run

East, on S. bdy. of sec. 32.

Over level alkali land.

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

By 1st set, 39.99 chs.

By 2nd set, 40.01 chs.; the mean of which is

40.00 Set a quatzite stone 18x6x6 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33, marked S C on N.; with 4 grooves on E. and 2 grooves on W. face; dig pits 24x18x12 ins. cross wise on each line, E. and W. 3 ft and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Land level.

Soil alkali and clay 2" rate.

No timber.

East, on S. bdy. sec. 33.

Over level alkali land.

Differenc 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 a limestone 15x8x5 ins. 10 ins. in the ground for standard ¼ sec. cor., marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of

cor.

79.60 Slough drains N. 18° E., water from Big Spring, slightly salty, 3 ins. deep.

Difference between measurements of 80.00chs. by two sets of chainmen, is 6 lks.; position of middle point

By 1st set, 79.97 chs.

By 2nd set, 80.03 chs.; the mean of which is

80.00 Set a lime stone 15x8x5 ins. 10 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 1½ ft. high N. of cor.

Pits impracticable.

Land level.

Soil alkali and clay 2" rate.

No timber.

East, on S. bdy. of sec. 34.

Over level alkali land.

0.70 East edge of slough, leave water.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 1 lk.; position of middle point

By 1st set, 39.99½ chs.

By 2nd set, 40.00½ chs,; the mean of which is

40.00 Set a lime stone 15x7x6 ins. 10 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 2 lks.; position of middle point

By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

80.00 Set a quartzite stone 15x8x6 ins. 10 ins. inthe ground for stand ard cor. of secs. 34 and 35; marked S C on N

with 2 grooves on E. and 4 grooves on W. face; dig pits 24x18x12 ins. crosswise on eachline, E. and W. 3 ft. and N. of stone 7 ft. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Land level.

Soil alkali and clay 2" rate.

No timber.

July 27: At this cor. I set off 19° 19' N. on the decl. arc; and, at 0h 6m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 46'.

East, on S. bdy. of sec. 35.

Over level alkali land.

No difference between measurements of 40.00 chs. by two sets of chainmen.

40.00 Set a quartzite stone 15x7x6 ins. 10 ins. in the ground for standard ¼ sec. cor.; marked S C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 1 lk. position of middle point

By 1st set, 80.00½ chs.

By 2nd set, 79.99½ chs., the mean of which is

80.00 Set a lime stone 15x7x6 ins. 10 ins. in the ground for standard cor. of secs. 35 and 36, marked S C on N.; with 1 groove on E. and 5 grooves on W. face; dig pits 24x18x12 ins. cross wise on each line, E. and W. 3 ft. and N. of stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Land level.

Soil alkali and clay, 2" rate.

No timber.

SU V T S T

East, on S. bdy. of sec. 36.

Over level alkali land.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 1 lk., position of middle point

By 1st set, 40.00½ chs.

By 2nd set, 39.99½ chs.; the mean of which is

40.00 Set a quartzite stone 15x7x5 ins. 10 ins. in the ground for standard ¼ sec. cor. marked S. C ¼ on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 2 lks. position of middle point

By 1st set, 79.99 chs.

By 2nd set, 80.01 chs.; the mean of which is

80.00 Set a lime stone 18x6x6 ins. 12 ins. in the ground for standard cor. of Tp. 1 N. Rs. 6 and 7 W., marked

S C 1 N on N.,

6 W on E., and

7 W on W. face, with 6 grooves on N., E., and W. faces; dig pits 30x24x12 ins. crosswise on each line, E. and W. 4 ft., and N. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2½ ft. high N. of cor.

Land level.

Soil alkali and clay 2" rate.

No timber.

July 27, 1906.

For general description see field notes of subdivisions of township 1 south range 7 west.

Clarence J. Stookey

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 Alonzo J. Stookey, 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 Salt Lake Base Line through Range 7 West of the Salt Lake Meridian Utah showing the respective capacities in which they acted:

David Shark Jr. Ambrose Green, Chainman.
Lionel J. Stookey Allen S. Bowden, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all or parts or portions of the Salt Lake Base Line through Range 7 West of the Salt Lake meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Shark Jr. Lionel J. Stookey, Chainman.
Ambrose Green Allen S. Bowden, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 27 day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of 14th day of April, 1906, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the Salt Lake Base Line Since through Range 7 West of the Salt Lake meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surv General for Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

Alonzo J. Stookey
United States Deputy Surve

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907.

Thomas Hull
G. S. Pierce, Jr.
for Clerk

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, July 26, 1

The foregoing field notes of the survey of the Salt Lake Base Line, through Range No. 7 West of the Salt Lake Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

United States Surveyor Ge

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BOOK A-336

G.

FIELD NOTES

OF THE RE SURVEY OF THE

SOUTH BOUNDARY

of

Township No. 1 South of Range No. 7 West

Of the Salt Lake Base and *Meridian,*

Utah.

AS SURVEYED BY

Alonzo J. Stookey, *United States Deputy Surveyor,*

Under his Contract No. 293, *dated* April 14, 1906, *190*

Survey commenced July 29, 1906, *190*

Survey completed July 30, 1906, *190*

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Length 0. 48. 00
Cm 0. 32 00

NAMES AND DUTIES OF ASSISTANTS.

David Shack Jr	Chainman
Andrew Green	Chainman
Lewis J. Stokley	Rodman
Lucien A. Stokley	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Sharp Jr Ambrose Green
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will leve
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same;
we will report the true distances to all notable objects, and the true lengths of all lines that we ass
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the re su
the South boundary of T. 1 S. of R. 7 W. Salt Lake Base
Meridian Utah.

David Sharp Jr, Chain
Ambrose Green, Chain

Subscribed and sworn to before me this 29
day of July, 1906

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

~~We,~~ I Lionel J. Stookey and
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establis
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re su
the South boundary of T. 1 S. of R. 7 W. Salt
Lake Base and Meridian Utah. Lionel J. Stookey, Moun
, Moun

Subscribed and sworn to before me this 29
day of July, 1906

SEAL

Alonzo J. Stookey
U. S. Deputy Sur

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

, A
, A

Subscribed and sworn to before me this
day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well an
perform the duties of flagman according to instructions given me, to the best of my skill and ability,
resurvey of the South boundary of T 1 S R 7 W.
Salt Lake Base and Meridian Utah. Lincoln A. Stookey, Fl

Subscribed and sworn to before me this 29
day of July, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

(-13

RESURVE SOUTH BOUNDARY OF T. 1 S., R. 7 W.

Survey commenced July 29, 1906, for description of transit etc. see book "A", of this survey.

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

At the cor. of Tps. 1 and 2 S, Rs. 7 and 8 W.; lat. 40° 40' 51" N., long. 112° 41' 30" W.; I set off 40° 41' N. on the lat. arc; 18° 50' N. on the decl. arc; and, at $3^h\ 6^m$ p.m.l.m. t., determine with the solar a meridian and mark a point thereof, by driving a tack into a wooden peg firmly set in the ground 5 chs. N. of of the cor.

At 11:01 p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven into the ground, 5 chs. N. of my station.

July 29, 1906.

July 30: At 7 a. m. l. m. t., I lay off the azimuth of Polaris, 1° 35' to the west, and mark the meridian thus determined, by driving a tack into the peg set July 29, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At $8^h\ 6^m$ a.m.l. m. t., I set off 40° 41', on the lat. arc; 18° 40' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a tack driven into the peg already set 5 chs. N. of my station; this mark falls 0.4 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 0'16" west and 0'21" east of the meridian setablished by the

RESURVEY. SOUTH BOUNDARY OF T. 1 S., R. 7 W.

Polaris observations; therefore, I conclude that the the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, at 8:30 a. m., is N. 17° 26' W.; the angle thus determined gives the mag. decl. 17° 26' E.

From the Tp. cor. already described, I resurvey East bet. secs. 6 and 31.

Over level alkali land.

32.00 Leave alkali land, ascend bank 6 ft. high bears N. and S. and enter dense shadscale and greasewood undergrowth.

40.00 After diligent search, I fail to find any trace of the old ¼ sec. cor.

Set a limestone 15 X 9 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

46.92 County road from Grantsville to Iosepa, bears N. 23° E. and S. 23° W.

69.83 Road from Grantsville to Iosepa, bears N. 15° E. and S. 15° W.

72.00 Begin ascent of bench, bears N. and S.

80.00 Can find no definite traceof old cor.

Set a limestone 15 X 10 X 7 ins. 10 ins. in the ground for cor. of secs. 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 1½ ft. high W. of cor.

Pits impracticable.

Land level and gently rolling. No timber.

Soil alkali , sand and gravel 2" and 3" rate.

Land covered with dense undergrowth 48.00 chs.

July 30, 1906.

For general description see field notes of subdivisions of township 1S. R. 7 W.

Alonzo J. Stookey, 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 Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the South of T. 1 S. of R. 7 W. Salt Lake Base and Meridian showing the respective capacities in which they acted:

David Sharp Jr., Chainman.
Ambrose Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the South boundary of T. 1 S. of R. 7 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr. Ambrose Green, Chainman.
, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 30 day of July, 1906.

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I Alonzo J. Stookey United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of 14th day of April, 1906, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, resurveyed all those parts or portions of the South boundary of T. 1 S. R. 7 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes 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 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 the foregoing are the original field notes of such resurvey.

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26, 19

The foregoing field notes of the resurvey of the fractional south boundary of Township No. 1 South, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, having 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 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 offi

United States Surveyor Gen

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BOOK A-336

H.

FIELD NOTES

OF THE SURVEY OF THE

SOUTH AND EAST BOUNDARIES

OF

TOWNSHIP No. 1 SOUTH OF RANGE No. 7 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH

AS SURVEYED BY

ALONZO J. STOOKEY, *United States Deputy Surveyor,*

nder his Contract No. 293, *dated* April 14, 1906., *190*

urvey commenced July 30, 1906., *190*

urvey completed July 31, 1906., *190*

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S Bdy Cor 5.00-00
6 " " Cor 123 68
" " Cor 4 58 60
Cor 148

NAMES AND DUTIES OF ASSISTANTS.

David Sharp Jr	Chainman
Ambrose Green	Chainman
Lionel J. Stoddey	Rodman
Lincoln A. Stoddey	Flagman

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BOOK A-336

INDEX DIAGRAM.

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, David Shaffer Jr. and Ambrose Green do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assis measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surve the south and east boundaries of township 1 South of Range 7 we of the Salt Lake Base and Meridian in the state of Utah.

David Shaffer Jr., Chainm

Ambrose Green, Chainm

Subscribed and sworn to before me this 29" day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~WE,~~ I, Lionel J. Stookey and ..... do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surve the south and east boundaries of Tp. 1 South & Range 7 We of the Salt Lake Base and Meridian, in the State of Ut

Lionel J. Stookey, Mounds

....., Mounds

Subscribed and sworn to before me this 29" day of July, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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

..... Axm

..... Axm

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

SEAL

I, Lincoln C. Stookey, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, i survey of the south & east boundaries of Tp. 1 South of Rang West of the Salt Lake Base and Meridian in the State of Utah.

Lincoln C. Stookey, Flag.

Subscribed and sworn to before me this 29" day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

SOUTH BOUNDARY T. 1 S. R. 7 W.

Chains. Survey commenced July 30, 1906 for description of instrument, etc. see book "A" of this survey.

I begin at the cor. of secs. 5, 6, 31, and 32, as established by myself and heretofore described.

At 9h. 6m. a.m. l.m.t. I set off 40° 41' N. on lat. arc; 18° 39' N. on the decl. arc; and determine a meridian with the solar. Thence I run

East bet. secs. 5 and 32,

Ascending gently; through dense sagebrush undergrowth.

40.00 Set a limestone 18x8x7 ins., 12 ins. in the ground for ¼ sec. cor. mkd. ½ on N. face; raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. Pits impracticable.

Begin steep ascent Onaqui range of mountains, bears N. & S.

62.00 Ascend perpendicular ledges, 50 ft. high, bear NW. & SE.

66.00 Top of ascent, 400 ft. above bench, bears N. 45° W. and S. 45° E.; descend over ledges, through scattering cedars.

74.00 Bottom of hollow, 150 ft. below ridge, drains N. 60° W.

80.00 Set a limestone 18x6x6 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, mkd 2 notches on W. and 4 notches on E. edge; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.

Land, rolling, mountainous, and very rough.

Soil stony and gravel, 3d rate.

Timber scattering cedar. Undergrowth sagebrush.

Land covered with dense undergrowth or mountainous

80.00 chs.

East bet. secs. 4 and 33,

Up steep, rugged W. face of mountain through scattering cedar timber.

40.00 A cedar, 10 ins. dia. on line, for ¼ sec. cor., I mark ¼ S 33 on N., 4 on S. side, raise mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable. This cor. stands on top of a ridge 2300 ft. above valley, bearing N. 30° W.

SOUTH BOUNDARY T. 1 S., R. 7 W.

Chains	
	and S.30° E.
46.00	Leave cedar timber bears N. and S.;continue through grassy swale draining North.
61.50	Bottom of hollow, 100 ft.deep, drains north. Asc.abruptly.
71.50	Top of Onaqui range of mountains 2750 ft.high, divide between Tooele Valley and Skull Valley bears N. and S. Descend into Timpy Canyon;entering scattering cedars.
80.00	Set a quartzite stone 18x18x8 ins., 12 ins.in the ground for cor.of secs.3,4,33, and 34, mkd.3 notches on E. and W. edge; raise mound of stone 2 ft.base, 1½ ft.high W. of cor.Pits impracticable.
	A cedar 6 ins.dia.bears S.45° E.23 lks.dist. marked T 2 S R 7 W S 3 B T
	A cedar 12 ins.dia.bears N.2° E. 40 lks.dist. marked T 1 S R 7 W S 34 B T
	A cedar 12 ins.dia.bears N.31° E.64 lks.dist. marked T 1 S R 7 W S 33 B T
	No other trees within limits. Land, mountainous and very rough. Soil, stony; 3d rate. Timber, scattering cedar. Mountainous land 80.00 chs.

East bet.secs.3 and 34,

	Down steep mountain through scattering cedar timber.
30.00	Hollow, 1800 ft.below divide, drains S.60° E.
40.00	Set a limestone 15x7x7 ins., 10 ins.in the ground for ¼ sec.cor., marked ¼ on N.face; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.Pits impracticable.
43.80	Top of ascent 150 ft.above hollow, bears N.& S.leave cedars cedar timber.
60.90	Foot of Onaqui Mts.200 ft.below ridge bear N.40° E.and S.40° W.
63.90	Wash, 30 lks.wide, 10 ft.deep, drains N.50° E.
67.10	Wood road bears N.45° E. and S.45° W.
69.55	Wash 50 lks.wide, 8 ft.deep, drains N.43° E.
77.00	Top of low saddle, bears N.30° E. and S.30° W.

SOUTH BOUNDARY OF T. 1 S. R 7 W

80.00	Set a quartzite stone 18x6x6 ins. 12 ins. in the ground for cor. of secs. 2, 3, 34 and 35, marked wth 4 notches on W. and 2 notches E. edge; raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony and mountain loam, 1" and 2" rate.
	Timber scattering cedar.
	Mountainous land 80.00 chs.
	July 30: At this cor. I set off 18° 37' N. on the decl. arc; and, at 0 h 6 m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 41'.
	East, bet. secs. 2 and 35.
	Over rolling mountainous land, through very dense sage brush undergrowth.
11.00	Wash 30 lks. wide 4 ft. deep, in Timpy Canyon, drains N. 35° E. Ascend.
13.30	Wood road, bears N. 30° E. and S. 30° W.
30.00	Top of gentle ascent, bears N. and S. and ascend gently along N. face of mountain.
40.00	Set a quartzite stone 18x6x6 ins. 12 ins. in ground for ¼ sec. cor. marked ¼ on N. face; raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
48.00	Bottom of swale 100 ft. below ridge, drains N. and ascend, gently.
79.20	Wash or ravine 40 lks. wide 12 ft. deep, drains N. 50° W., about 5 chs. from here the ravine turns and runs about west.
80.00	Set a quartzite stone 18x6x6 ins. 12 ins. in the ground for cor. of secs. 1, 2, 35, and 36, markedwith 1 notch on the E. and 5 notches on W. edge; raise a mound of

SOUTH BOUNDARY OF T S R 7 W

	stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous and rolling.
	Soil stony and mountain loam, 1" and 2" rate.
	Timber scattering cedars, undergrowth sagebrush.
	Mountainous land and covered with dense undergrowth
	80.00 chs.
	East, bet. secs. 1 and 36.
	Over gently rolling mountainous land, through dense sagebrush undergrowth.
3.40	Top of limeston ridge 90 ft. above wash, bears N and S. and begin gentle descent.
8.90	Road to mine, bears N. 15° E. and S.15° W.
30.20	Wash 1 ch. wide 4 ft. deep, drains N. 15° E. and ascend.
40.00	Set a lime stone 18x6x5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
41.16	Top of ridge 150 ft. above wash, bears N. and S. and begin gentle descent.
56.00	Bottom of swale 100 ft. below ridge, heads about 10 chs. S., drains N. and ascend.
69.35	Top of quartzite ridge 75 ft. above swale, bears N. and S. and continue over broken country.
80.00	Set a lime stone 18x8x7 ins in a mound of stone, impossible to dig a hole, for cor. of Tps 1 and 2 S. Rs. 6 and 7 W., marked
	1 S on N. E.,
	6 W on S. E.,
	2 S on S. W., and
	7 W on N. W. face; with 6 notches on each edge, and

SOUTH BOUNDARY OF T 1 S. R. 7 W

raise a mound of stone 2 ft. base 1½ ft. high S. of cor. under overhanging ledge.

Pits impracticable.

Land mountainous.

Soil stony and mountain loam, 1" and 2" rate.

Timber scattering cedar, undergrowth sage.

Mountainous land or covered with dense undergrowth

80.00 chs.

July 30. 1906.

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EAST BOUNDARY OF T. 1S. R. 7 W.

	July 31: At $8^h 6^m$ a. m., l. m. t., I set off 40° 41' on the lat. arc; 18° 25' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of Tps. 1 and 2 S., Rs. 6 and 7 W.
	Thence I run
	North, bet. secs. 31 and 36.
	Down steep N. face of mountain, through dense sage brush undergrowth.
25.70	Wash 500 ft. below Tp. cor., drains E. and ascend.
40.00	Top of ridge, bears N. 70° W. and S. 70° E.
	Set a limestone 15 X 7 X 6 ins. 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. Above ridge 100 ft. high.
41.50	Begin descent from ridge.
57.00	Foot of descent, bears N. 50° W. and S. 50° E., and continue over almost level ground, 90 ft. below ridge.
80.00	Set a limestone 18 X 8 X 7 ins. 12 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.
	Land mountainous and rolling.
	Soil stony and grvelly loam 1" and 2" rate. No timber.
	Mountainous land or covered with dense undergrowth 80.00 chs.

	North, bet. secs. 25 and 30.
	Ascend gently , through dense sage brush undergrowth.
12.00	Top of ascent, bears E. and W. 60 ft. above cor.
23.68	Foot of descent, bears N. 60° W. and S. 60° E., County road from Grantsville to Iosepa, bears N.48° W. and S. 48° E leave dense undergrowth and enter marshy salt grass land. This point is 65 ft. below ridge.
40.00	Set a limestone 18 X 7 X 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18

EAST BOUNDARY OF T. 1 S., R. 7 W.

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

70.00 Leave salt grass, bears E. and W., enter level alkali land.

80.00 Set a limestone 18 X 8 X 7 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land rolling and level.

Soil stony and alkali 2" and 3" rate.

Land covered with dense undergrowth 23.68 chs.

No timber.

North, bet. secs. 19 and 24.

Over level alkali land, partially inundated.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for cor. of secs. 13, 18, 19, and 24, marked with 3 notches on N. and S. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level.

Soil alkali 3" rate.

No timber or undergrowth.

North, bet. secs. 13 and 18.

Over level alkali land.

10.86 Western Pacific Ry. track, bears N. 69° W. and S. 69° E.

40.00 Set a limestone 18 X 6 X 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 7 X 6 ins. 12 ins. in the ground for

EAST BOUNDARY OF T. 1 S., R. 7 W.

cor. of secs. 7, 12, 13, and 18, marked with 4 notches o S. and 2 notches on N. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level.

Soil alkali 3" rate.

No timber or under growth.

North, bet. secs. 7 and 12.

Over level alkali land.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 7 X 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level.

Soil alkali and clay 3" rate.

No timber or undergrowth.

North, bet. secs. 1 and 6.

Over level alkali land.

40.00 Set a limestone 15 X 10 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

82.28 Intersect the Salt Lake Base Line 1.48chs. W. of the standard cor. of Tp. 1N. Rs. 6 and 7 W., as established by myself and heretofore described.

Set a sandstone 18 X 7 X 6 ins. 12 ins in the ground for closing cor. of Tps. 1 S. Rs. 6 and 7 W., mkd. CC 1 S on S., 6 W. on E., and 7 W. on W. face; with 6 grooves on S., E. and W. faces; dig pits 30 X 24 X 12 ins. crosswise on

EAST BOUNDARY OF T. 1 S. R. 7 W.

each line, E. and W., 4 ft., and S. of stone 8 ft. dist.; and raise a mound of earth 5 ft. base 2½ ft. high S. of cor.

Land level.

Soil alkali and clay 3" rate. No timber.

July 31: At this corner, I set off 18° 22' N. on the decl. arc; and at 10:06 p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 46'.

July 31, 1906.

For general description see notes of subdivisions of township 1 south range 7 west.

Alonzo J. Stookey

U. S. Deputy Surveyor.

Boundaries of T. 1 S., R. 7 W.

Latitudes, Departures and Closing Errors.

Line Designated	True Bearing	Dist.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
Salt Lake Base	West	479.73	.....	.....	.....	479.73
West Boundary	South	481.87	.....	481.87	.....	.....
South Boundary	East	480.00	.....	.....	480.00	.....
East Boundary.	North	482.28	482.28	.....	.....	.....
Convergency						.63
Totals			482.28	481.87	480.00	480.36
			481.87			480.00
Error in lat. and dep.			.41			.36

Alonzo J. Stookey

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 Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the South and East boundaries of the 1 South of Range 7 West of the Salt Lake Base and Meridian in the State of Utah, showing the respective capacities in which they acted:

David Sharp Jr., Chainman.
Ambrose Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the South and East boundaries of the 1 South of Range 7 West of the Salt Lake Base and Meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

David Sharp Jr., Chainman.
Ambrose Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 31 day of July, 1906.

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, [illegible], United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from [illegible] United States Surveyor General for [illegible], bearing date of the [illegible] day of [illegible], 190[illegible] 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 [illegible], the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of [illegible] of the [illegible] Principal Meridian, in the State of [illegible] 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 [illegible] and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

[signature]
United States Deputy Surveyor.

Subscribed by said [illegible], and sworn to before me this [illegible] day of [illegible], 190[illegible]

[signature]
United States Surveyor General

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, July 26, 190[illegible]

The foregoing field notes of the survey of the South and East Boundaries of Township No. 1 South, Range No. 7 East of the Salt Lake Base and Meridian, Utah,

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

[signature]
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-336

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I.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

of

TOWNSHIP No. 1 SOUTH OF RANGE No. 7 WEST

Of the SALT LAKE BASE AND *Meridian,*

UTAH

AS SURVEYED BY

ALONZO J. STOOKEY, *United States Deputy Surveyor,*

der his Contract No. 293, *dated* April 14, 1906, *190*

rvey commenced August 1, 1906, *190*

rvey completed August 9, 1906, *190*

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Land - 34-06-70
Cor - 26-04-06
Obj 7-78

NAMES AND DUTIES OF ASSISTANTS.

David Shash	Chainman
Ambrose Green	Chainman
Lionel J. Stokes	Monumentman
Lincoln A. Stokes	Flagman

BOOK A-336

INDEX DIAGRAM.

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

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31	32	33	34	35	36

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

We, David Sharp Jr and Ambrose Green do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su the subdivisions of the South of Range 7 West Salt Lake Base and Meridian in the State of

David Sharp Jr, Chain.

Ambrose Green, Chain.

Subscribed and sworn to before me this 1st day of August, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, Lincoln J. Stookey and

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establish of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the surv the subdivisions of the South of Range 7 West the Salt Lake Base and Meridian in the State of

Lione J. Stookey, Mound

, Mound

Subscribed and sworn to before me this 1" day of August, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

We, and

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

Subscribed and sworn to before me this day of , 190

SEAL

I, Lincoln A. Stookey, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, survey of the subdivisions of the South of Range 7 West of the Salt Lake Base and Meridian in the State of

Lincoln A. Stookey Flag

Subscribed and sworn to before me this 1" day of August, 1906

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

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SUBDIVISIONS OF T. 1 S. R. 7 W.

Survey commenced August 1, 1906., for description of transit etc. see book "A". of this survey.

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

At the cor. of secs. 1, 2, 35, and 36, on the S. bdy. of the Tp. as established by myself and heretofore described; I set off 40° 41' on the lat. arc; 18° 06' N on the decl. arc; and, at $3^h 6^m$ p. m., l. m. t., determine with the solar a meridian and mark a point thereof, on a peg firmly set in the ground, 5 chs. N. of the cor.

At 10:50 p. m., l. m. t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a peg driven into the ground 5 chs, N. of my station.

August 1, 1906.

August 2: At 7 a. m., l.m. t., I lay off the azimuth of Polaris 1° 35' to the west, and mark the meridian thus determined, by driving a tack into the peg set Aug. 1, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At $8^h 6^m$ a.m l. m. t., I set off 40° 41' on the lat. arc; 17° 55' on the decl. arc; and mark a point in the meridian determined with the solar, by a tack driven into the peg already set 5 chs. N. of my station; this mark falls 0.4 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 0'16" west and 0'21" east of the meridian established by Polaris observations; therefore, I conclude that the

adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8:30 a. m. is N. 17° 25' W.; the angle thus determined gives the mag. decl. 17° 25' E.

From the sec. cor. already described I run N. 0° 01' W. bet. secs. 35 and 36.

Over rolling bench land, through dense sage brush undergrowth, ascending.

10.00 Top of ridge bears S. 45° E. and W., and descend, gently.

40.00 Set a quartzite stone 15 X 8 X 5 ins. 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.

40.10 Ravine or wash, drains N. 60° W. 50 lks. wide 8 ft. deep.

42.85 Road bears N. 80° W. and S. 80° E.

47.00 Begin ascent of rocky ridge.

48.00 Top of ridge bears N 30° W. and S. 30° E., and descend along W. face of ridge, ridge is 75 ft. above ravine.

80.00 Foot of descent bears N. 35° W. and S. 35° E.

Set a limestone 18 X 6 X 5 ins. 12 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 1½ ft. high W. of cor.

Pits impracticable.

Land rolling or slightly mountainous,

Soil stony and rich loam 1st and 3d rate, No timber.

Land covered with dense sagebrush undergrowth. 80.00 chs.

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

40.00 Set temp. ¼ sec. cor.

80.00 Intersect E. bdy. of the Tp. 11 lks. S. of the cor. of secs. 25, 30, 31, and 36; as established by myself and heretofore described.

Thence I run

SUBDIVISIONS OF T. 1 S. R. 7 W.

	S. 89° 55' W on a true line bet. secs. 25 and 36.
	Over rolling mountainous land, through dense sagebrush undergrowth.
1.50	Begin ascent, bears N. and S.
9.50	Top of ascent 125 ft. above cor. bears N. 35° W. & S35° E
15.00	Bottom of hollow, 40 ft. below ridge drains S. 45° E.
32.00	Top of ridge 90 ft. above hollow bears N.45° W & S 45° E
40.00	Bottom of swale drains S. 18° E. 80 ft. below ridge.
	Set a limestone 15 X 7 X 6 ins. 10 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.
62.00	Top of ridge bears N. and S., 400 ft high and descend.
71.00	Foot of steep descent, bears N. and S.250 ft below ridge
74.00	Wash, 65 lks. wide, 6 ft. deep, drains N.
80.00	The cor. of secs. 25, 26, 35, and 36.
	Land mountainous and rolling,
	Soil stony 3d rate, No timber.
	Mountainous land or land covered with dense sagebrush undergrowth. 80.00 chs.
	N. 0° 01' W. bet. secs. 25 and 26.
	Over land sloping to the N., through dense sagebrush undergrowth.
40.00	Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
	From this point B. A. Mc Bride's house bears N. 41° 58' E.
53.56	Road bears N 45° E. and S. 45° W., and from this point saw mill bears N. 47°50' W. 7.50 chs. dist.
64.36	County road, bears N. 41° W. and S. 41° 50' E.
66.00	B. A Mc Bride's irrigation ditch, 3 ft. wide 1 ft. deep, drains N. 41° 50' W.

SUBDIVISIONS OF T. 1 S. R. 7 W.

66.10 Fence bears N 41° 50' W. and S. 41° 50' E., leave dense undergrowth and enter level salt grass meadow.

66.26 From this point B. A. McBride's house bears S. 46° E.

80.00 Set a limestone 15 X 6 X 6 ins. 10 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

66.10
13.90

Land gently sloping N. and level,

Soil, sandy loam, clay, and alkali 1st and 3d rate.

No timber.

Land covered with dense sagebrush undergrowth. 66.10 chs.

N. 89° 55' E on a random line bet. secs. 24 and 25.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect the E. bdy. of the Tp. 11 lks. S. of the cor. of secs. 19, 24, 25, and 30, as established by myself and heretofore described.

Thence I run

S. 89° 50' W. on a true line bet. secs. 24 and 25.

Over level alkali land.

40.01 Set a limestone 18 X 9 X 6 ins. 12 ins. in the ground for ¼ sec, cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

54.75 B. A. McBride's fence bears N.50° W. and S. 50° E., leave alkali land, enter salt grass meadow.

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

Land level,

Soil alkali and clay 2d and 3d rate.

No timber.

N. 0° 01' W. bet. secs. 23 and 24.

Over level salt grass meadow.

14.50 B. A. McBride's fence, bears N. 80° W. and S. 80° E., leave salt grass enter almost level alkali land.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground

SUBDIVISIONS OF T. 1 S. R. 7 W.

for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a moun of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 8 X 7 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level or very gently rolling,

Soil alkali and clay 2d and 3d rate.

No timber.

N. 89° 50' E. on a random line bet. secs. 13 and 24.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect the E. bdy. of the Tp. 2 lks. N. of the cor. of secs. 13, 18, 19, and 24, as established by myself and heretofore described.

Thence I run

S. 89° 51' W. on a true line bet. secs. 13 and 24.

Over level alkali land.

40.01 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a moundof earth 3½ ft. base 1½ ft. high N. of cor.

61.75 Low clay ridge 3 chs. across it, bears N. 28° E. and S. 28° W.

64. 60 Low clay ridge 2 chs. across it, bears N. 30° E. and S. 30° W.

80.02 The cor. of secs. 13, 14, 23, and 24.

Land almost level,

Soil alkali and clay 3" rate. No timber.

August 2: At this corner, I set off 17° 52' N. on the decl. arc; and at 10h 6m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43".

N. 0° 01' W. bet. sec 13 and 14.

SUBDIVISIONS OF T. 1 S. R. 7 W.

	Over level alkali land.
40.00	Set a limestone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
41.40	Western Pacific Ry. track, bears N. 69° W. and S. 69° E
80.00	Set a limestone 15 X 8 X 7 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alkali and clay 3d rate.
	No timber.
	N. 89° 51' E. on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect the E. bdy. of the Tp. 20 lks. N. of the cor. of secs. 7, 12, 13, and 18, as established by myself and heretofore described.
	Thence I run
	West on a true line bet. secs. 12 and 13.
	Over level alkali land.
40.00	Set a limestone 18 X 7 X 6 ins. 12 ins. in the ground for ¼ sec. cor marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 11, 12, 13, and 14.
	Land level,
	Soil clay, alkali and sand, 3d rate.
	No timber.
	N. 0° 01' W. bet. secs. 11 and 12.
	Over level alkali land.
40.00	Set a limestone 15 X 8 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

80.00	Set a limestone 18 X 7 X 6 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil sand, alkali, and salt, 3d rate.
	No timber.
	East on a random line bet. secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the E. bdy. of the Tp. at the cor. of secs. 1, 6, 7, and 12, as established by myself and heretofore described.
	Thence I run
	West on a true line bet. secs. 1 and 12.
	Over level alkali land.
40.01	Set a sand stone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.02	The cor. of secs. 1, 2, 11, and 12.
	Land level,
	Soil sand and alkali 3d rate.
	No timber.
	N. 0° 01' W. bet. secs. 1 and 2.
	Over level alkali land.
40.00	Set a sandstone 18 X 7 X 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
82.31	Intersect Salt Lake Base Line, 1.52 chs. W. of the standard cor. of secs. 35 and 36, as established by myself and heretofore described.
	Set a quartzite stone 18 X 6 X 6 ins. 12 ins. in the ground for closing cor. of secs. 1 and 2, marked CC on

S.; with 1 groove on E. and 5 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W. 3 ft., and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level,

Soil sand and alkali, 3d rate.

No timber. August 2, 1906.

August 3: At 8h 6m a.m.l. m. t., I set off 40° 41' on the lat. arc; 17° 40' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35, on the S. bdy. of the Tp., as established by myself and heretofore described.

Thence I run

N. 0° 02' W. bet. secs. 34 and 35.

Over rolling bench land, through dense sage brush undergrowth.

3.00 Top of saddle bears N. 40° E. and S. 40° W. and descend.

16.00 Wash, 50 lks. wide, 6 ft. deep, drains N. 30° E.

23.75 Wood road, bears N. 48° E. and S. 48° W.

28.76 Wash or ravine, drains N. 30° E., 50 lks. wide 6 ft. deep

31.40 Wash or ravine, drains N. 30° E., 50 lks. wide 6 ft deep.

40.00 Set a quartzite stone 18 X 8 X 7 ins. 12 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.

41.00 Begin ascent of ridge, extreme eastern end of spur of Onaqui range of mountains, bears N. 40° E. and S. 40° W.

47.25 Top of spur bears E. and W., 75 ft. above ¼ sec. cor.

54.00 Foot of descent, 85 ft. below ridge, bears NW. & SE.

80.00 Set a limestone 18 X 6 X 6 ins. 12 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 1½ ft. high W. of cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

Pits impracticable.

Land rolling,

Soil rich loam and stony, 1st and 3d rate. No timber.

Land covered with dense sagebrush undergrowth. 80.00 chs

E. on a random line bet. secs. 26 and 35.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 14 lks. N. of the cor. of secs. 25, 26, 35, and 36.

Thence I run

N. 89° 54' W. on a true line bet. secs. 26 and 35.

Over slightly mountainous and broken ground, through dense sagebrush undergrowth.

8.70 Top of rocky ridge, bears N. and S., 110 ft above cor. Desc.

26.50 Wood road, bears N. and S.

29.00 Hollow or wash, 35 lks wide 3 ft deep drains W.; ascend

40.00 Top of quartzite ridge, 35 ft. above wash bears N&S.

Set a quartzite stone 15 X 6 X 6 ins. 10 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. Descend.

47.80 Wash, drains N. 15° E., 25 lks. wide 2 ft. deep.

52.00 Wood road, bears N. and S.

53.80 Wash, drains N., 15 lks. wide 3 ft. deep.

55.30 Wood road, bears N. 20° E. and S. 20° W.

58.10 Wash, drains N., 12 lks. wide 2 ft. deep.

64.00 Wash, drains N., 14 lks wide 2½ ft. deep.

67.40 Wash, drains N., 15 lks. wide 2 ft. deep.

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

Land mountainous or broken,

Soil stony and gravelly, 2d rate. No timber.

Mountainous land or covered with dense sagebrush undergrowth 80.00 chs.

N. 0° 02' W. bet. secs. 26 and 27.

SUBDIVISIONS OF T. 1 S. R. 7 W.

Over land sloping gently to the east, along E. base of Cnaqui range of mountains; through dense sage brush undergrowth.

40.00 Set a limestone 18 X 8 X 4 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

68.00 Land becomes almost level.

80.00 Set a limestone 18 X 8 X 8 ins. 12 ins in the ground for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on S. and E. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land sloping gently to the east or level,

Soil sandy loam, 1st rate, No timber.

Land covered with dense sagebrush undergrowth. 80.00 chs

S. 89° 54' E. on a random line bet. secs. 23 and 26.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 2 lks. S. of the cor. of secs. 23, 24, 25, and 26.

Thence I run

N. 89° 55' W. on a true line bet. secs. 23 and 26.

Over level salt grass meadow.

12.75 B. A. McBride's fence, bears N.41° 50' W and S. 41° 50' E.
Leave meadow.

13.25 County road, bears N. 41° 50' W. and S. 41° 50' E., and enter dense greasewood and sagebrush undergrowth.

40.00 Set a sand stone 15 X 10 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

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

Land level,

Soil clay, loam, and gravel, 1st and 2d rate. No timber.

Land covered with dense sagebrush undergrowth. 66.75 chs.

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 02' W. bet. secs. 22 and 23.

Over level land, through dense greasewood undergrowth.

40.00 Set a limestone 15 X 8 X 7 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

43.40 Road, bears N. 55° W. and S. 55° E.

64.45 Road, bears N. 55° W. and S. 55° E.

69.30 County road, bears N. 48° W. and S. 48° E.

80.00 Set a limestone 18 X 8 X 7 ins. 12 ins. in the ground for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on S. and 2 notches on E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil sandy loam and clay, 1st and 2d rate, No timber.

Land covered with dense sagebrush undergrowth 80.00 chs.

Aug. 3: At this corner, I set off 17° 37' N. on the decl. arc; and at 0h 6m P. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43'.

S. 89° 55' E. on a random line bet. secs. 14 and 23.

40.00 Set temp. ½ sec. cor.

79.98 Intersect N. and S. line at the cor. of secs. 13, 14, 23, and 24.

Thence I run

N. 89° 55' W. on a true line bet. secs. 14 and 23.

Over level alkali land.

39.99 Set a limestone 15 X 10 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

60.00 Leave alkali land bears N. 60° W. and S. 60° E., and enter dense greasewood undergrowth.

79.98 The cor. of secs. 14, 15, 22, and 23.

SUBDIVISIONS OF T. 1 S. R. 7 W.

	Land level,
	Soil alkali and clay 2d rate, No timber.
	Land covered with dense greasewood undergrowth 19.98 chs
	N. 0° 02' W. bet. secs. 14 and 15.
	Over level land, through dense greasewood undergrowth.
16.00	Leave dense undergrowth, bears E. and W., enter alkali land.
40.00	Set a limestone 15 X 10 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
72.23	Western Pacific Ry. track, bears N. 69° W. and S. 69° E.
80.00	Set a limestone 15 X 9 X 5 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil clay and alkali 3d rate, No timber.
	Land covered with dense greasewood undergrowth 16 chs.
	S. 89° 55' E. on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 25 lks. S. of the cor. of secs. 11, 12, 13, and 14.
	Thence I run
	S. 89° 54' W. on a true line bet. secs. 11 and 14. Over level alkali land.
40.00	Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 10, 11, 14, and 15.
	Land level,
	Soil alkali 3d rate.
	No timber.

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 02' W. bet. secs. 10 and 11.

Over level alkali land.

40,00 Set a limestone 15 X 6 X 6ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set a limestone 18 X 6 X 6 ins. 12 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 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali 3d rate.

No timber.

N. 89° 54' E. on a random line bet. secs. 2 and 11.

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

80.02 Intersect N. and S. line 9 lks. S. of secs. 1, 2, 11, and 12.

Thence I run

S. 89° 50' W. on a true line bet. secs. 2 and 11.

Over level alkali land.

40.01 Set a limestone 15 X 8 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N of cor.

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

Land level,

Soil alkali 3d rate.

No timber.

N. 0° 02' W. bet. secs. 2 and 3.

Over level alkali land.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

82.45	Intersect the Salt Lake Base Line 1.53 chs. W. of the standard cor. of secs. 34 and 35 T. 1 N. R. 7 W. as established by myself and heretofore described.
	Set a sandstone 18 X 8 X 5 ins. 12 ins. in the ground for closing cor. of secs. 2 and 3, marked CC on S.; with 2 grooves on E. and 4 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land level,
	Soil alkali 3d rate.
	No timber. August 3, 1906.

	August 4: At 8h 6m a.m.l. m. t., I set off 40° 41' on the lat. arc; 17°.24' on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34 on the S. bdy. of the Tp. as established by myself and heretofore described.
	Thence I run
	N. 0° 02', W. bet. secs. 33 and 34.
	Along E. face of steep rugged mountain, through scattering cedar timber.
30.00	Top of Onaqui range, bears N. and S. 8° W. 2500 ft. high and along top of mountain.
35.00	Leave ridge, bears N. 15° E. and S.
40.00	Set a quartzite 15 X 7 X 6 ins. 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.
	A cedar 6 ins. in diameter bears N. 80° E. 30 lks. dist. marked ¼ S. 34 B.T., no other trees within limits.
	This cor. is about 50 lks. W. of the divide.
60.00	Top of Onaqui range, bears N. 30° W. and S. 15° E., and descend along E. face.
80.00	Set a limestone 15 X 10 X 5 ins. 10 ins. in the ground

SUBDIVISIONS OF T. 1 S. R. 7 W.

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 stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

A cedar 6 ins. in diameter bears N. 45° E. 7 lks. dist. marked T. 1 S. R. 7 W. S. 27 B. T.

A cedar 6 ins. in diameter bears S. 80° E. 20 lks. dist. marked T. 1 S. R. 7 W. S. 34 B. T.

A cedar 12 ins. in diameter bears S. 14° W. 38 lks. dist. marked T. 1 S. R. 7 W. S. 33 B. T.

A cedar 9 ins. in diameter bears N. 89° W. 19 lks. dist. marked T. 1 S. R. 7 W. S. 28 B. T.

Land mountainous,

Soil stony 3d rate,

Timber scattering cedar,

Mountainous land 80.00 chs.

E. on a random line bet. secs. 27 and 34.

40.00 Set temp. ½ sec. cor.

80.00 Intersect N. and S. line at the cor. of secs. 26, 27, 34, and 35.

Thence I run

West on a true line bet. secs. 27 and 34.

Over bench land through dense sage brush undergrowth.

5.00 Foot of Onaqui range, bears N. and S., and begin steep ascent.

40.00 Set a limestone 15 X8 X 7 ins. 10 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 Enter scattering cedar timber, bears N. and S.

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

Land mountainous,

Soil gravelly and stony, 2d and 3d rate,

Timber scattering cedar.

Land Covered with dense undergrowth or mountainous land 80.00 chs.

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 02' W. bet. secs. 27 and 28.

Along steep E. face of mountain, through scattering cedar timber.

40.00 Set a limestone 15 X 7 X 6 ins. 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.

50.00 Top of saddle bears E. and W., and descend along very rough E. face of mountain. Saddle 200 ft. above ¼ sec cor

80.00 Set a limestone 18 X 7 X 6 ins. in mound of stone on stationary boulder, 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 15 ins. in diameter bears N. 60° E. 3 lks. dist. marked T. 1 S. R. 7 W. S. 22 B. T.

A cedar 12 ins. in diameter bears N. 65° W. 10 lks. dist. marked T. 1 S. R. 7 W. S. 21 B. T.

A cedar 24 ins. in diameter bears S. 18° E. 31 lks. dist marked T. 1 S. R. 7 W. S. 27 B. T.

A cedar 24 ins. in diameter bears S. 45 ° W. 36 lks. dist. marked T. 1 S. R. 7 W. S. 28 B. T.

Land mountainous,

Soil stony 3d rate,

Timber scattering cedar,

Mountainous land 80.00 chs.

E. on a random line bet. secs. 22 and 27.

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line at the cor. of secs. 22, 23, 26, and 27.

Thence I run

West on a true line bet. secs. 22 and 27.

Over bench land sloping gently to the E., through dense sage brush undergrowth.

SUBDIVISIONS OF T. 1 S. R. 7 W.

29.50 Foot of Onaqui range, bears N. and S.; enter scattering cedar timber and begin steep ascent of mountain.

40.01 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.

Pits impracticable.

66.50 Hollow, drains S. 60° E. and begin very steep rough ascent.

80.02 The cor. of secs. 21, 22, 27, and 28.

Land gently rolling or mountainous,

Soil gravelly loam and stony 1st and 3d rate,

Timber scattering cedar,

Land covered with dense undergrowht or mountainous 80.02 chs.

August 4: At this corner, I set off 17° 21' N. on the decl. arc; and at $0^h\ 6^m$ p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43'.

N. 0° 02' W. bet. secs. 21 and 22.

Over rough mountainous land descending through scattering cedar timber.

10.75 Hollow, drains S. 60° E. and ascend.

34.40 Top of ridge 200 ft. above cor. bears N. 40° W and S. 40° E., and continue over broken country.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.

Pits impracticable.

66.00 Top of high ridge 1 ch. W. of saddle bears E. and W., begin steep descent over ledges.

80.00 Set a limestone 15 X 8 X 6 ins. 10 ins. in the ground for cor. of secs. 15, 16, 21, and 22, marked

1 S. on NE., and

7 W. on SE. face,

with 3 notches on S. and E. edge; and raise a mound of

	stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous and broken,
	Soil stony 3d rate,
	Timber scattering cedar,
	Mountainous land 80.00 chs.

	E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line 4 lks. S. of the cor. of secs. 14, 15, 22, and 23.
	Thence I run
	S. 89° 58' W. on a true line bet. secs. 15 and 22.
	Over level land, through dense greasewood undergrowth.
11.50	County road, bears N. 50° W. and S. 50° E.
25.00	Road, bears N. 40° W. and S. 40° E.
34.00	Foot of Onaqui range, bears N. 30° W. and S. 30° E., and begin steep ascent of mountain, leaving dense undergrowth.
40.03	Set a sandstone 15 X 8 X 8 ins. 10 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.
50.00	Enter scattering cedar timber, bears N. and S.
69.00	Top of ascent, bears N. and S., ridge slopes very abruptly to the north. This ridge is 1000 ft above valley
76.00	Foot of descent bears N. and S., leave scattring cedar timber, and proceed over almost level land to corner, through dense sagebrush undergrowth.
80.06	The cor. of secs. 15, 16, 21, and 22.
	Land level and mountainous,
	Soil clay and stony 3d rate,
	Timber scattring cedar,
	Covered with dense undergrowth or mountainous land
	80.06 chs.

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 02' W. bet. secs. 15 and 16.

Over mountainous land, along E. face of mountain.

30.00 Top of ridge, bears N.40° E. and S. 40° W., and begin steep descent. This ridge is 900 ft. above the valley.

40.00 Set a limestone 18 X 6 X 6 ins. 12 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.

57.00 Foot of steep descent, bears E. and W., and proceed down gentle descent through dense greasewood undergrowt

72.00 Road, bears N. 58° W. and S. 58° E., and continue over level land.

75.90 Road, bears N. 50° W. and S. 50° E.

77.00 Leave dense undergrowth, bears N. 45° W. and S. 45° E., and proceed over level alkali land.

80.00 Set a quartzite stone 18 X 8 X 4 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land mountainous and level,

Soil stony, clay, and alkali 3d rate, No timber.

Mountainous land or land covered with dense greasewood undergrowth 77.00 chs.

August 4" 1906.

August 5: At 8h 0m a m l. m. t., I set off 40° 44' on the lat. arc; 17° 08' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15, and 16.

Thence I run

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

40.00 Set temp. ¼ sec. cor.

80.02 Intersect N. and S. line 16 lks. N. of the cor. of secs. 10, 11, 14, and 15.

SUBDIVISIONS OF T. 1 S. R. 7 W.

Thence I run

N. 89° 55' W. on a true line bet. secs. 10 and 15.

Over level alkali land.

21.00 Western Pacific Ry. track, bears N. 69° W. and S. 69° E

40.01 Set a limestone 15 X 9 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ft. base 1½ft. high N. of cor.

76.50 County road, Grantsville to Iosepa, bears NW and SE.

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

Land level,

Soil alkali and clay 3d rate.

No timber.

N. 0° 02' W. bet. secs. 9 and 10.

Over level alkali land.

4.50 County road, bears N. 53° W. and S. 53° E.

22.68 Western Pacific Ry. track, bears N. 69° W. and S. 69° E.

35.00 Enter dense undergrowth, bears E. and W.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

42.00 Leave dense greasewood undergrowth, bears N. 50° E and S. 50° W.

60.00 Enter saltgrass land, bears E. and W.

80.00 Set a quartzite stone 18 X 6 X 6 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil alkali and clay 3d rate.

No timber. Dense undergrowth 7.00 chs.

S. 89° 55' E. on a random line bet. secs. 3 and 10.

40.00 Set temp. ¼ sec. cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

80.00 Intersect N. and S. line 7 lks. N. of the cor. of secs. 2, 3, 10, and 11.

Thence I run

N. 89° 52' W. on a true line bet. secs. 3 and 10.

Over level alkali land.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

60.00 Enter saltgrass land, bears N. and S.

80.00 The cor. of secs. 3, 4, 9, and 10

Land level,

Soil alkali and clay 3" rate. No timber.

August 5: At this corner, I set off 17° 05 N on the decl. arc; and at 0^h 6^m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 45'.

N. 0° 02' W. bet. secs. 3 and 4.

Over level salt grass land, covered with water 2 or 3 ins. deep.

22.60 Leave salt grass, bears E. and W.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

55.00 Enter salt grass, bears E. and W.

75.00 Big Spring slough 1 ch. wide, drains N.25° E.

77.50 Same slough as last named, drains N. 30° W.

80.50 Same slough, drains N. 45° E.

82.43 Intersect Salt Lake Base Line . . 1.55 chs. W. of the standard cor. of secs. 33 and 34 T. 1 N. R. 7 W., as established by myself and heretofore described.

Set a quartzite stone 18 X 7 X 6 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4, marked CC on S.; with 3 grooves on E. and W. faces; dig pits 24 X 18

SUBDIVISIONS OF T. 1 S. R. 7 W.

X 12 ins. crosswise on each line, E. and W. 3 ft., and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level,

Soil alkali and clay 3d rate.

No timber. August 5, 1906.

August 6: At $8^h 6^m$ a.m. l. m. t., I set off 40° 41' on the lat. arc; 16° 52' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32, and 33, on the S. bdy. of the Tp. as established by myself and heretofore described.

Thence I run

N. 0° 03' W. bet. secs. 32 and 33.

Along W. side of mountain, ascending, through scattering cedar timber.

40.00 Set a limestone 15 X 10 X 8 ins. 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.

40.20 Top of ascent, saddle bears E. and W. 1800 ft. high, and begin steep descnt.

80.00 Set a limestone 18X6 X 5 ins. 12 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; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Thi cor. is on steep N. face of mountain.

Land mountainous and rough,

Soil stony 3d rate,

Timber very few scattering cedars,

Mountainous land 80.00chs.

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

40.00 Set temp. ¼ sec. cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

79.98 Intersect the N. and S. line 23 lks. N. of the cor. of secs. 27, 28, 33, and 34.

Thence I run

N. 89° 50' W. on a true line bet. secs. 28 and 33.

Over rough mountainous land, ascending through scatterin, cedar timber.

6.50 Top of Onaqui range of mountains 2100 ft. high, bears N. 10° W. and S. 10° E., and descend steep. W. face of mountain.

39.99 Set a sand stone 15 X 8 X 8 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; and raise a mound of stone 2ft base 1½ ft. high N. of cor.

Pits impracticable.

62.40 Hollow drains N. and ascend, leaving cedars.

70.00 Top of ridge bears N. and S. and begin steep descent.

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

Land mountainous,

Soil stony 3rd rate,

Timber scattering cedar,

Mountainous land 79.98 chs.

N. 0° 03' W. bet. secs. 28 and 29.

Over rough mountainous land.

2.00 Hollow drains W, and ascend. Hollow 150 ft. below cor.

20.00 Top of ascent 300 ft. above bench below, bears E. and W.

35.00 Hollow or ravine, drains W. 1 ch. wide 6 ft. deep.

40.00 Set a limestone 18 X 12 X 6 ins. 12 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.

53.15 Top of ascent, 150 ft. above hollow, bears NE and SW.

80.00 Set a limestone 15 X 8 X 7 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 2ft. base 1½ ft. high W. of cor.

Pits impracticable.
Land mountainous,
Soil stony 3d rate, No timber.
Mountainous land 80.00 chs.

S. 89° 50' E. on a random line bet. secs. 21 and 28.
40.00 Set temp. ¼ sec. cor.
80.00 Intersect N. and S. line 7 lks. N. of the cor. of secs. 21, 22, 27, and 28.
Thence I run
N. 89° 47' W. on a true line bet. secs. 21 and 28.
Over rough mountainous land, ascending, through cedars.
13.00 Top of Onaqui range 2100 ft. high, bears N. and S., and descend along top of long, straight ridge.
40.00 Set a limestone 18 X 8 X 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.
Leave cedar timber, bears N. and S.
80.00 The cor. of secs. 20, 21, 28, and 29.
Land mountainous,
Soil stony 3d rate,
Timber scattering cedar,
Mountainous land 80.00 chs.
August 6: At this corner, I set off 16° 49' N. on the decl. arc; and at 0h 6m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 43'.

N. 0° 03' W. bet. secs. 20 and 21.
Over broken mountainous land.
2.30 Hollow, drains S. 60° W, and continue over undulating ground, ascending. Hollow 65 ft. below cor.
37.00 Top of ascent, 250 ft above hollow, bears NE. and SW.
40.00 Set a limestone 18 X 8 X 6 ins. 12 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.

SUBDIVISIONS OF T. 1 S. R. 7 W.

	Pits impracticable.
53.00	Foot of descent, bears E. and W, and continue over slightly undulating ground through dense shadscale and greasewood undergrowth.
80.00	Set a limestone 15 X 6 X 6ins. 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 Wof cor.
	Pits impracticable.
	Land mountainous and gently rolling,
	Soil stony and gravelly 2d and 3d rate, No timber.
	Mountainous land or land covered with dense shadscale and greasewood undergrowth 80.00 chs.

	S. 89° 47' E. on a random line bet. secs. 16 and 21.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line 4 lks. N. of cor. of secs. 15, 16, 21, and 22.
	Thence I run
	N. 89° 45' W. on a true line bet. secs. 16 and 21.
	Over mountainous land, ascending.
4.00	Ascent becomes very steep and rough, almost impassable.
12.00	Top of Onaqui range 2200 ft. high, bears N. and S. enter scattering cedar timber. Descend.
30.00	Leave scattering cedar timber, bears N. and S.
40.01	Set a limestone 18 X 8 X 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.
52.00	Foot of descent, base of Onaqui range, bears N. and S., and continue over gently sloping bench land through dense shadscale undergrowth.
80.02	The cor. of secs. 16, 17, 20, and 21.
	Land mountainous or gently rolling,
	Soil stony and grwelly 2d and 3d rate, Timber, cedar.

SUBDIVISIONS OF T. 1 S. R. 7 W.

Mountainous land or land covered with dense shadscale undergrowth 80.02 chs.

N. 0° 03' W. bet. secs. 16 and 17.

Over almost level land, through dense shadscale and greasewood undergrowth.

29.60 Road, bears N. 30° E. and S. 30° W.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

79.00 County road, bears N. 25° E. and S. 25° W.

80.00 Set a limestone 18 X 10 X 9 ins. 12 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 almost level,

Soil loam, sand, and gravel 2d and 3d rate, No timber.

Land covered with dense shadscale undergrowth 80.00 chs.

S. 89° 45' E. on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

80.00 Intersect N. and S. line 16 lks. S. of cor. of secs. 9, 10, 15, and 16.

Thence I run

N. 89° 52' W. on a true line bet. secs. 9 and 16.

Over level alkali land.

7.00 Road, bears N. 45° W. and S. 45° E., enter dense undergrowth.

11.50 Road, bears N. 40° W. and S. 40° E.

17.00 Begin gradual ascent.

27.00 Foot of mountain, bears N. and S. and begin steep ascent of mountain.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground.

SUBDIVISIONS OF T. 1 S. R. 7 W.

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.

47.00 Top of north end of Onaqui range steep and rough, 1000 ft. high, bears N. and S. and descend.

72.50 Foot of steep descent, bears N. 30° W. and S. 30° E.

77.75 Road, bears N. 10° W. and S.10° E.

79.50 County road, bears N. 20° E. and S. 20° W.

80.00 The cor. of sec. 8, 9, 16, and 17.

Land level, rolling and mountainous,
Soil clay and stony 3d rate, No timber.
Mountainous land or land covered with dense shadscale undergrowth 73.00 chs.

August 6, 1906.

August 7: At 8h 6ma.m. l. m. t., I set off 40° 44' on the lat. arc; 16° 36' on the decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16, and 17; thence I run
N. 0° 03' W. bet secs. 8 and 9.
Over almost level land, through dense greasewood undergrowth.

6.87 Road from Grantsville to Oakley, Idaho, bears E. and W.

7.67 Head of Big Spring, on line, water spreading out in a channel 1.50 chs. wide and 4 ft. deep. Water 2½ ft. deep enter water and proceed down channel.

11.80 Leave water, drains N. 30° E.

13.75 Dam across channel of Big Spring 1 ch. E. of here.

15.00 Center of channel 1.50 chs. wide water 2 ft. deep, drains N. 25°W.

19.40 Center of same stream, drains N. 35° E.

40.00 Set a limestone 15 X 12 X 4 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. W. of cor.

SUBDIVISIONS OF R 7 W

43.66	Western Pacific Ry. track, bears N. 79° W. and S. 79° E.
	From this point the extreme north end of the Onaqui range bears S. 74° 13' E.
50.00	Leave dense undergrowth, bears E. and W.
68.60	From this point the extreme north end of the Onaqui range bears S. 51° 22' E.
73.00	Enter salt grass meadow, bears E. and W., land covered with water about 3 ins. deep.
80.00	Set a limestone 18 X 10 X 7 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level,
	Soil alkali and clay 3d rate, No timber.
	Land covered with dense greasewood undergrowth 50.00 chs
	S. 89° 52' E. on a random line bet. secs. 4 and 9.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 18 lks. S. of the cor. of secs. 3, 4, 9, and 10,
	Thence I run
	West on a true line bet. secs. 4 and 9.
	Over level salt grass land, covered with water.
40.00	Set a sand stone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.
45.65	Big Spring slough 75 lks. wide 8 ins. deep, drains N. 20° E.
80.00	The cor. of secs. 4, 5, 8, and 9.
	Land level, covered with salt grass, and bayonet grass along the streams,
	Soil alkali and clay 3d rate. No timber.

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 03' W. bet. secs. 4 and 5.

Over level salt grass land; covered with water in places.

39.00 Leave salt grass, bears E. and W.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

58.00 Enter salt grass, bears N. 60° E. and S. 60° W.

75.00 Leave salt grass, bears E. and W.

82.36 Intersect the Salt Lake Base Line 1.58chs. W. of the standard cor. of secs. 32 and 33 as established by myself and heretofore described.

Set a limestone 15 X 8 X 7 ins. 10 ins. in the ground for closing cor. of secs. 4 and 5, marked CC on S.; with 4 grooves on E., and 2 grooves on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W. 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level,

Soil alkali and clay 3d rate. No timber.

August 7: At this corner, I set off 16° 32' N. on the decl. arc; and at $0^h.\ 6^m$ p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 46'.

August 7, 1906.

August 8: At $8^h\ 6^m$ a m l. m. t., I set off 40° 41' on the lat. arc; 16° 19' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on the S. bdy. of the Tp. as established by myself and heretofore described.

Thence I run

N. 0° 04' W. bet. secs. 31 and 32.

Over stony bench land, through dense shadscale undergrowth.

33.65 Road from Grantsville to Iosepa, bears N. 30° E. and S.

Chains

June 5. At 2h 59m a. m., by my watch, which is 30m 50s fast of l. m. t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions; and mark a point in the line thus determined by cutting a cross into a plug, driven in the ground, 5 chs. N. of my station.

At 7 a. m., l. m. t., I lay off the azimuth of Polaris, 1°34', to the west, and mark the True Meridian thus determined, with an iron tack on the wooden stake previously set, which falls 0.5 inch west of the mark determined by the solar.

At 8h 20m a. m., m. l. t., I set off 22°34' N. on the vertical arc, bring solar telescope in line and set off 51°14' co. lat. on the vertical arc; and mark a point in the true meridian determined by the solar by a cross on the stake already set, 5 chs. N. of my station. This mark falls 0.1 inch west of the true meridian established by the Polaris observation. —

The solar apparatus, by p. m. and a. m. observations, defines positions for true meridians respectively about 0'26" east and 0'5" west 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 9h a. m., is N. 16° W.; the angle thus determined, reduced by the table, page 100, gives the mean magn. declination 15°55' E.

SUBDIVISIONS OF T. 1 S. R. 7 W.

West on a random line bet. secs. 30 and 31.

40.00 Set temp. ¼ sec. cor.

79.90 Intersect the W. bdy. of the Tp. at the cor. of secs. 25, 30, 31, and 36, as established by myself and heretofore described.

Thence I run

East on a true line bet. secs. 30 and 31.

Over level land, through dense shadscale and greasewood undergrowth.

14.65 Road from Burnt Spring to Low Pass, bears N. 30° W. and S. 30° E.

39.90 Set a limestone 15 X 10 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.

75.40 Road from Grantsville to Iosepa, bears N. 33° E. and S. 33° W. This is the County road.

79.90 The cor. of secs. 29, 30, 31, and 32.

Land very gently rolling or level,

Soil clay and sand 2nd and 3rd rate, No timber.

Land covered with dense greasewood undergrowth 79.90chs

N.0° 04' W. bet. secs. 29 and 30.

Over level land, through dense shadscale and greasewood undergrowth.

13.00 County road from Grantsville to Iosepa, bears N. 33° E. and S. 33° W.

40.00 Set a limestone 15 X 7 X 5ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 15 X 8 X 7 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; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound

of earth 4 ft. base 2 ft. high W. of cor.

Land level,

Soil clay and sand 2nd rate, No timber.

Land covered with dense shadscale undergrowth 80.00 chs.

August 8: At this corner, I set off 16° 16' N. on the decl. arc; and at 0^h 0^m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 42'.

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

40.00 Set temp. ¼ sec. cor.

79.98 Intersect N. and S. line 4 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.

Over mountainous land.

4.20 Ravine, drains S. 43° W.

8.00 Same ravine, drains N. 45° W.

15.00 Foot of mountain, bears N. 25° E. and S. 25° W., enter gently undulating bench land and dense shadscale undergrowth.

24.85 Road from Grantsville to Iosepa, bears N. 15° E. and S. 15° W.

39.99 Set a limestone 15 X 7 X 6 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

55.15 County road from Grantsville to Iosepa, bears N. 32° E and S. 32° W.

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

Land mountainous, rolling , and level,

Soil gravel and clay 2nd and 3rd rate, No timber.

Land covered with dense shadscale and greasewood undergrowth on mountainous 79.98 chs.

SUBDIVISIONS OF T. 1 S. R. 7 W.

West on a random line bet. sec. 19 and 30.

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

79.85 Intersect the W. bdy. of the Tp. 11 lks. S. of the cor. of secs. 19, 24, 25, and 30 as established by myself and heretofore described.

Thence I run

S. 89° 55' E. on a true line bet. secs. 19 and 30.

Ascending the base of Lone Rockover ledges.

10.00 Top of ascent, bears N. and S., and from this point the main pinnacleof Lone Rock bears S. 70° W. about 5 chs. dist.

16.00 Foot of descent, bears N. and S. and enter dense shadscale and greasewood undergrowth.

39.85 Set a limestone 15 X 8 X 7 ins. 10 ins. inthe ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N face; dig pits 18 X 18 X 12 ins E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

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

Land broken and level,

Soil stony, sand and clay 2nd and 3rd rate, No timber.

Mountainous land or covered with dense shadscale and greasewood undergrowth 79.85 chs.

N. 0° 04' W. bet. secs. 19 and 20.

Over level land, through dense shadscale and greasewood undergrowth.

40.00 Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

80.00 Set a limestone 18 X 6 X 6 ins. 12 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; dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; a nd raise a mound of earth 4 ft. base 2 ft high W. of cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

Land level,
Soil clay 2d and 3d rate, No timber.
Land covered with dense shadscale undergrowth 80.00 chs.

S. 89° 58' E. on a random line bet. secs. 17 and 20.
40.00 Set temp. ¼ sec. cor.
80.00 Intersect N. and S. line 18 lks. N. of the cor. of secs. 16, 17, 20, and 21.
Thence I run
N. 89° 50' W. on a true line bet. secs. 17 and 20.
Over level land, through dense shadscale and greasewood undergrowth.
8.46 Road from Grantsville to Iosepa, bears N. and S.
28.47 County road from Grantsville to Iosepa, bears N. 21° E. and S. 21° W.
40.00 Set a limestone 15 X 8 X 7 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high N. of cor.
80.00 The cor. of secs. 17, 18, 19, and 20.
Land level,
Soil gravel and clay 2d and 3d rate. No timber.
Land covered with dense shadscale undergrowth 80.00 chs.

N. 89° 55' W. on a random line bet. secs. 18 and 19.
40.00 Set temp. ¼ sec. cor.
79.76 Intersect the W. bdy. of the Tp. at the cor. of secs. 13, 18, 19, and 24, as established by myself and heretofore described.
Thence I run
S. 89° 55' E. on a true line bet. secs. 18 and 19.
Over level land, through dense shadscale and greasewood undergrowth.
39.76 Set a limestone 15 X 7 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18

SUBDIVISIONS OF T. 1 S. R. 7 W.

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

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

Land level.

Soil clay 3rd rate. No timber.

Land covered with dense shadscale undergrowth. 79.76 chs

N. 0° 04' W. bet. secs. 17 and 18.

Over level land, through dense shadscale and greasewood undergrowth.

23.00 Leave dense undergrowth, bears N. 40° E. and S. 40°W., enter alkali land.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

80.00 Set a limestone 18 X 8 X 7 ins. 12 ins. in the ground for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on S. and 5 notches on E. edge; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land level.

Soil clay and alkali 3rd rate. No timber.

Land covered with dense shadscale undergrowth 23.00 chs.

August 8, 1906.

August 9: At 8h 5m a. m. l. m. t., I set off 40° 44' on the lat. arc; 16° 02' on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence I run

S. 89° 50' E. on a random line bet. secs. 8 and 17.

40.00 Set temp. ¼ sec. cor.

79.98 Intersect N. and S. line 4 lks. S. of corner of secs. 8, 9, 16, and 17.

SUBDIVISIONS OF T. 1 S. R. 7 W.

	Thence I run
	N. 89° 52' W. on a true line bet. secs. 8 and 17,
	Over level land, through dense shadscale and greasewood undergrowth.
36.00	Descend bank 5 ft. high, bears N. and S., leave dense undergrowth and enter alkali land.
39.99	Set a limestone 18 X 10 X 4 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.98	The cor. of secs. 7, 8, 17, and 18.
	Land level.
	Soil sand, clay, and alkali 2d and 3d rate. No timber.
	Land covered with dense shadscale undergrowth 36 chs.
	N. 89° 55' W. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect the W. bdy. of the Tp. at the cor. of secs. 7, 12, 13, and 18, as established by myself and heretogore described.
	Thence I run
	S. 89° 55' E. on a true line bet. secs. 7 and 18.
	Over level land, through dense shadscale and greasewood undergrowth.
28.70	Leave dense undergrowth, bears N. and S., and enter alkali land.
39.70	Set alimestone 15 X 8 X 5 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
79.70	The cor. of secs. 7, 8, 17, and 18.
	Land level.
	Soil alkali and clay 3d rate. No timber.
	Land covered with dense shadscale undergrowth 28.70 chs

SUBDIVISIONS OF T. 1 S. R. 7 W.

N. 0° 04' W. bet. secs. 7 and 8.

Over level alkali land.

39.40 Enter dense shadscale undergrowth, bears N. 40° W. and S. 40° E.

40.00 Set a limestone 15 X 7 X 5 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ 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 $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high W. of cor.

41.75 Road from Grantsville to Low Pass and Oakley Idaho, bears N. 75° W. and S. 75° E.

50.00 Leave dense undergrowth, bears N. 45° W. and S. 45° E., enter alkali land.

58.90 Western Pacific Ry. track, bears N. 79° W. and S. 79° E.

80.00 Set alimestone 18 X 7 X 5 ins. 12 ins. in the ground for cor. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and E. edge; dig pits 18 X 18 X 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

1060
7940

Land level, or very gently rolling.

Soil alkali and clay 3rd rate. No timber.

Land covered with dense shadscale undergrowth. 10.60 chs

S. 89° 52' E. on a random line bet. secs. 5 and 8.

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

80.00 Intersect N. and S. line 2 lks. S. of the cor. of secs. 4, 5, 8, and 9.

Thence I run

N. 89° 53' W. on a true line bet. secs. 5 and 8.

Over level salt grass land covered with water.

10.00 Leave salt grass and water, bears N. 15° W. and S. 15° E.

40.00 Set a limestone 15 X 10 X 4 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face; dig pits 18 X 18 X 12 ins E. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high N. of cor.

SUBDIVISIONS OF T. 1 S R. 7 W.

70.00	Road, bears N. 70° W. and S. 70° E.
80.00	The cor. of secs. 5, 6, 7, and 8.
	Land level, or very gently rolling.
	Soil clay 3d rate.
	No timber.
	N. 89° 55' W. on a random line bet. secs. 6 and 7.
40.00	Set temp. ¼ sec. cor.
79.70	Intersect the W. bdy. of the Tp. 2 lks. S. of the cor. of secs. 1, 6, 7, and 12, as established by myself and heretofore described.
	Thence I run
	S. 89° 54' E. on a true line bet. secs. 6 and 7.
	Over level alkali land.
39.70	Set a limestone 15 X 6 X 6 ins. 10 ins. in the ground for ¼ sec. cor marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
42.70	Enter dense undergrowth, bears N. 80° E. and S. 80° W.
48.00	Road, bears N. 80° E. and S. 80° W.
55.70	Leave dense undergrowth, bears N. 50° E. and S. 50° W.
79.70	The cor. of secs. 5, 6, 7, and 8.
	Land level or very gently rolling.
	Soil alkali and clay 3d rate. No timber.
	Land covered with dense shadscale undergrowth 13 chs.
	August 9: At this corner, I set off 15° 58' N. on the decl. arc; and at 0^h 5^m p. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 45'.
	N. 0° 04' W. bet. secs. 5 and 6.
	Over very gently rolling or level alkali land.
1.54	Road, bears N. 85° E and S. 85° W.
40.00	Set a limestone 15 X 8 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist.; and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

SUBDIVISIONS OF T. 1 S. R. 7 W.

56.26 Dry bed of slough 75 lks. wide, drains N. 80° E.

82.18 Intersect the Salt Lake Base line, 1.60 chs. W. of the standard cor. of secs. 31 and 32, T. 1 N. R. 7 W., as established by myself and heretofore described.

Set a limestone 15 X 8 X 8 ins. 10 ins. in the ground for closing cor. of secs. 5 and 6, marked CC on S., with 5 grooves on E. and 1 groove on W. face; dig pits 24 X 18 X 12 ins. crosswise on each line, E. and W., 3 ft., and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high S. of cor.

Land level or very gently rolling.

Soil alkali and clay 3d rate.

No timber. August 9, 1906.

General Description.

This township contains nearly every variety of land from plains to mountains; and the soil ranges from alkali to rich loam.

The north end of the Onaqui range of mountains occupies the central and south central part of the township. It is quite steep and rough, and affords a fair growth of cedar timber and native grasses.

The western and southwestern part is a level plain, covered with dense shadscale and greasewood undergrowth; is arid in its nature, and will not, without artificial irrigation, produce an agricultural crop.

Sections 22,23,25, 26, 27, 34, and 35 contain some very good land, portions of which would, under favorable conditions, produce crops without irrigation. The remainder of the township is mainly an alkali flat, producing little or no vegetation, except salt grass, which occurs in the parts subject to overflow from springs. These alkali flats are almost level, sloping very gently to the north; and at no very remote period have been covered with the waters of Great SSalt Lake , as at-

tested by the drift wood that is still found on this flat.

The present shore line of Great Salt Lake, at its nearest point, is about 2½ miles in a northwesterly direction from the N.E.cor.of the township, where a narrow bay, very shallow, approaches from the northwest.

The surface here is so smooth and so near level that a slight breeze from the north will drive a thin sheet of water far inland; while a breeze from the south would have the reverse effect and make bare large areas normally covered, by crowding the water northward.

When the wind reaches a high velocity a condition much like the ebb and flow of the tide is produced; and the water is driven inland with such force, and to such a depth as to float much timber, some of which is 75 ft.long and 2 ft.in diameter, far inland. When the wind subsides, the waters recede so gradually that most of the timber is grounded, and lies strewn promiscuously over the plain. This is timber that has been lost in the construction of the "Lucine Cut-Off".

Timpy Spring, in sec.25, owned and used by B.A. McBride, the only settler in the township, is a nice spring of fairly good water. It is slightly brackish, but sufficiently pure for successful irrigation.

The only other spring of importance is Big Spring in secs.8 and 9. This spring flows about 12 cu.ft.per second, but contains so much mineral matter in solution, as to render it unfit for irrigation, except for native grasses adapted to saline soils.

I found no trace of any valuable mineral in the township.

B.A.McBride resides in the NW.¼ of sec.25; his improvements consist of a small dwelling house, store room, stables, out houses and corrals, of about $1000. valuation.

W.

There is an old sawmill in the NE.$\frac{1}{4}$ of sec.26, worth about $100.00, owned by R.M.Robinson.

Alonzo J. Stookey

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 Alonzo J. Stookey, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisions of Sec. 4 North Range 7 West of the Salt Lake Range and Meridian, in the State of Utah, showing the respective capacities in which they acted:

David Sharp Jr., Chainman.
Gordon Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Sec. 4 North of Range 7 West, of the Salt Lake Range 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.

David Sharp Jr., Chainman.
Gordon Green, Chainman.
Lionel J. Stookey, Moundman.
, Moundman.
, Axman.
, Axman.
Lincoln A. Stookey, Flagman.

Subscribed and sworn to before me this 9th day of August, 1906.

SEAL.

Alonzo J. Stookey
U.S. Deputy Surveyor

6-141

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alonzo J. Stookey, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date the 14th day of April, 1906, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisional lines of Twp. 1 South of Range 7 West

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

Alonzo J. Stookey
United States Deputy Surveyor

Subscribed by said Alonzo J. Stookey, and sworn to before me this 29th day of March, 1907.

Thomas Hull
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, July 26, 1907

The foregoing field notes of the survey of the Subdivisional lines of Township No.1 South, Range No.7 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 293, dated April 14, 1906, 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