Volume

#

R0296

4—679.

M.

BOOK A-296

1

FIELD NOTES

OF THE SURVEY OF THE

East and South Boundary of Township 12 South Range 17 West

Of the Salt Lake Base and Meridian, State of Utah

AS SURVEYED BY

Alonzo J Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced July 31, 1899

Survey completed August 4, 1899

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East Bdy	5.75.60	19-55	6-15.15
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BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hymn Millward	Chainman
Richard Orr	"
George L. Stookey	Monumman
Roger Millward	Axman
Roger Millward	Flagman

For preliminary affidavits see Book A, Pp. 75 & 76

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Volume

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R0296

South Boundary T12 S R 17 W

Chains	
	Survey commenced July 31. 1899. For description of transit etc. see Book A."
	Examine the adjustment of the transit and correct the level and collimation errors.
	At the established cor. of Tps. 12 and 13 S. Rs 17 and 18 W. which is a quartzite stone 15 X 20 X 30 ins above ground marked and witnessed as described by the Surveyor General in approx. Lat of 39° 43' N. Long. 113° 48' W. & observe Polaris at 10h 48m p m l. m. t. at eastern elongation in accordance with the Manual of instructions and mark the line thus determined by a tack driven into a wooden plug firmly set in the ground 5.00 chs N of Tp cor.
	August 1. 1899. at 7 a m d. lay off the azimuth of Polaris 1° 36' to the W. and mark the true Meridian thus determined by driving a tack into a wooden plug W. of the point established last night.
	The magnetic bearing of the true Meridian is N 16° 45' W. which reduced by the table on page 100 of the Manual gives the mean magnetic declination 16° 39' E.

South Boundary T. 12 S. R. 17 W.

Chains	
	I begin at the cor. of Tps 12 and 13 S. Rs 17 and 18 W. and from the true Meridian, I turn off an angle of 90° to the E.
	Thence I run
	E. on random line along S. bdy. of Tp. a distance of 5 miles 78.20 chs. (allowing the 1.80 chs. for convergency of meridians from the first, or western half mile) where I set a temporary cor. for Tps 12 and 13 S. Rs 16 and 17 W.
	From the temporary Tp cor. above mentioned
	Thence I run
	North on random line along East boundary of T. 12 S. R. 17 W. a distance of 6 miles 15.15 chs. to the intersection of the S. boundary of Tp. 11 S. R. 17 W. at a point 15.20 chs. W. of the cor. of Tps. 11 and 12 S. Rs. 16 and 17 W.
	In accordance with my special instructions I abandon my random line and proceed as follows

East Boundary T. 12 S. R. 17 W.

Chains	
	At the established Tp cor. of Tps 11 & 12 S. Rs 16 & 17 W. which is a quartzite stone 20 x 20 x 9 ins above ground firmly set and marked and witnessed as described by the Surveyor General.
	Observe Polaris at 10h 37m p.m. l. m. t. on Aug. 3. 1899. at eastern elongation in accordance with the Manual of Instructions and mark the line thus determined by driving a tack into a wooden plug firmly set in the ground 5.03 chs S. of cor.
	Again on the 4th 1899 at 7. a.m. & lay off the azimuth of Polaris 1°36' to the east. and mark the true meridian thus determined by driving a tack into a wooden plug east of the point established last night. The magnetic bearing of the true meridian 16°46' W. which reduced by the table on page 100 of the Manual gives the mean magnetic declination 16°40' E.
	From the cor. of Tps 11 & 12 S. Rs 16 & 17 W. Thence Run South on true line bet secs. 1 & 6. up a very gentle ascent over land sloping gently to the E.
55.15	Set a quartzite stone 15 x 6 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face. dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor. thus placing the fractional distance of 15.15 chs developed by random line (page 2 this Book) in the

East Boundary T 12 S R 17 W

Chains	
	first or northern half mile
59.17	Enter gently rolling sand hills bear E & W
95.15	Set a quartzite 15 x 10 x 8 ins. 10 ins in the ground for cor of secs 1, 6, 7, & 12 marked 5 notches on S edge and 1 notch in N edge, dug pits 18 x 18 x 12 ins, in each section 5½ ft distant and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Sand gently sloping E.
	Soil 3" rate Sandy
	Sand covered with dense sagebrush and greasewood undergrowth 95.15 chs.
	South on true line bet. secs. 7 & 12 over land sloping gently to the E.
26.00	Road, bears N 70° E & S 70° W.
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, dug pits 18 x 18 x 12 ins. N and S. of stone 3 ft distant and raised a mound of earth 3½ ft base 1½ ft high W. of cor.
76.00	Leave sand hills bear E & W.
80.00	Set quartzite stone 15 x 8 x 8 ins 10 ins. in the ground for cor of secs 7, 12, 13, & 18 marked 4 notches on the S. edge & 2 notches on the N edge, dug pits 18 x 18 x 12 ins. in each section 5½ ft dist and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Sand gently rolling
	Soil Sandy 3" rate drains E.
	Sand covered with dense shadscale and greasewood undergrowth 80.00 chains.

East Boundary T. 12 S. R. 17 W.

Chains	
	South on true line bet. secs 13 & 18 over land sloping gently to the E.
19.75	Enter low sand hills bear E & W.
29.30	Leave sand hills, bear E & W.
36.00	Begin gentle descent.
40.00	Set a quartzite stone 15 x 8 x 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist and raised a mound of earth 3 ft base 1½ ft high W. of cor.
79.00	Enter level alkali flat. bear N 25° W & S 25° E.
80.00	Set a quartzite stone 15 x 8 x 6 ins 10 ins in the ground for cor. to secs 13, 18, 19 & 24 marked 3 notches on the N edge and 3 notches on the S. edge. dug pits 18 x 18 x 12 ins. in each section 5½ distant and raised a mound of earth 4 ft base 2 ft high W. of cor.
19/1	Land gently rolling, drains S. Soil 3 & 4" rate and red alkali Land covered with dense shadscale and greasewood undergrowth. 79.00 chains.
	South on true line bet. secs 19 & 24 over level alkali flat
10.55	Leave alkali flat and enter dense shadscale and greasewood undergrowth. bear N 35° E & S 35° W.
40.00	Set a quartzite stone 15 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins N. and S. of stone 3 ft. distant and raised a mound of earth 3 ft base 1½ ft high W. of cor.

East Boundary T. 12 S. R. 17 W.

Chains	
45.34	Gully 20 lks. wide. bears E & W.
71.00	Enter alkali flat. bears E & W.
79.00	Leave " " " " enter dense shadscale & greasewood
80.00	Set a fair stone 18 X 8 X 6 ins 12 ins in the ground for cor. to secs. 19, 24, 25 & 30 marked 2 notches on the S. edge and 4 notches in the N. edge. dug pits 18 x 18 X 12 ins. in each section 5½ distant. and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Land almost level
	Soil 3" & 4" rate, alkali and sand.
	Land covered with dense shadscale & greasewood undergrowth 61.45 chs
	South on true line bet. secs 25 & 30 over level land.
7.36	Trout Creek & Fish Spring road. bears N 45° E. & S 45° W.
40.00	Set a quartzite stone 15 X 7 X 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 X 12 ins N. and S. of stone 3 ft dist. and raised a mound of earth 3½ ft base 1½ ft high W. of cor.
74.52	Begin gentle ascent of sand ridge.
80.00	Set a quartzite stone 18 X 8 X 6 ins 12 ins in the ground for cor. to secs. 25, 30, 31 & 36 marked 1 notch on the S. edge and 5 notches on the N. edge dug pits 18 X 18 X 12 ins in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Land almost level
	Soil sandy 3" & 4" rate
	Land covered with dense shadscale and greasewood undergrowth 80.00 chs.

East Boundary T 12 S R 17 W.

Chains	South on true line bet. secs. 31 & 36
	Over slightly rolling land, through dense sagebrush greasewood and shadscale undergrowth.
0.30	Top of low sand ridge, bears N. 40° W. & S. 40° E.
2.20	Bottom of descent.
40.00	Set a black lava stone 18 x 6 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 3 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
80.00	Set a black lava stone 24 x 10 x 10 ins. 18 ins in the ground for cor. of Tps 12 & 13 S. Rs 16 & 17 W. marked 12 S. on N. E., 16 W. on S. E., 13 S. on S. W. and 17 W. on N. W. faces; with 6 notches on each edge; raised a mound of stone 3 ft. base 1½ ft. high S. of cor.
	Pits impracticable
	Sand gently rolling almost level.
	Soil, sandy 3" & 4" rate.
	Sand covered with dense sagebrush shadscale and greasewood undergrowth 80.00 chs.

South Boundary of T 12 S R 17 W.

Chains

From the cor. of Tps. 12 & 13 S. Rs 16 & 17 W. as established by myself and heretofore described.
Thence Drew
West on true line bet. secs 1 & 36
Over gently rolling sandy ground through dense undergrowth
40.00 Set a lava stone 15X8X6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft. base 1½ ft high W. of cor
Pits impracticable
80.00 Set a lava stone 18X10X8 ins 12 ins in the ground for cor. of secs 1. 2. 35 & 36 marked 1 notch on E. and 5 notches on W. edges, dug pits 18X18X12 ins. in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high W. of cor.
Sand gently rolling
Soil, sandy 3" & 4" rate
No timber
Sand covered with dense undergrowth
80.00 chs.

West on true line bet secs. 2 & 35
Over gently rolling land
9.00 Begin descent from cobble stone slope
15.00 Foot of descent.
40.00 Set a lava stone 18X8X6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18X18X12 ins E. & W. of stone 3 ft dist. and raised a mound of earth 3½ ft. base 1½ ft high W. of cor.
45.66 Road bears N. 45° E. & S 45° W.
80.00 Set a lava stone 18X8X6 ins 12 ins in the ground for cor. of secs 2. 3. 34 & 35 marked with 2 notches on the E. and 4 notches on the W. edges

South Boundary T. 12 S. R. 17 W.

Chains	
	dug pits 18 x 18 x 12 ins. in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Land level & gently rolling
	Soil sandy 3" rate, drains N. E.
	Sand covered with dense sage brush shadscale and greasewood undergrowth 80.00 chs.
	West on true line bet. secs 33 & 34 over level land
7.50	Road, bears N. 45° E. & S. 45° W. Trout Creek and Fish Spring road.
23.00	Enter very dense greasewood
40.00	Set a quartzite stone 15 x 8 x 6 ins 10. ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft high N. of cor.
44.00	Greasewood becomes less dense, enter gently rolling sand hills bear N. & S.
80.00	Set a quartzite stone 15 x 8 x 6 ins. 10 ins. in the ground for cor. to secs 3, 4, 33 & 34 marked 3 notches on E. edge and 3 notches on W. edge. dug pits 18 x 18 x 12 ins in each section 5½ ft. distant and raised a mound of earth 4 ft base 2 ft high W. of cor.
	Land level
	Soil sandy 2" & 3" rate, drains N. E.
	Sand covered with dense greasewood and shadscale undergrowth 80.00 chs.

South Boundary T12. S. R17 W.

0 chains West on true line bet. secs. 4 & 33 over gently rolling sandy land.

31.00 Leave sand hills, bears N. & S.

40.00 Set brown lava stone 24x10x8 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18x18x12 ins. E. and W. of stone 3 ft dist. and raised a mound of earth 3 ft. base 1½ ft high N of cor.

50.25 Enter gently rolling sand hills bears N. & S.

73.00 Enter Alkali flat bears N & S.

80.00 Set a quartzite stone 15x8x6 ins 10 ins in the ground for cor of secs 4, 5, 32 & 33 marked with 4 notches on E. edge and 2 notches on N. edge, dug pits 18x18x12 ins in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high N. of cor.

73/7

Land gently rolling

Soil sandy 3" rate drains E.

Land covered with dense shad-scale & greasewood undergrowth

73.00 chains.

West on true line bet. secs 5 & 32 over gently rolling land

1.00 Leave alkali flat. bears N & S.

40.00 Set a quartzite stone 20x8x6 ins 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist. and raised a mound of earth 3 ft base 1½ ft high N of cor.

80.00 Set a quartzite stone 15x8x6 ins 10 ins in the ground for cor to secs 5, 6, 31 & 32 marked 1 notch on W. edge and 5 notches on E. edge dug pits 18x18x12 ins. in each

79/1

South Boundary T12. S. R17 W.

Chains section 5½ ft. distant and raised a mound of earth 4 ft base 2 ft high W. of cor.
Land gently rolling.
Soil 3" rate drains E.
Land covered with dense shadscale and greasewood undergrowth 79.00 chs

West on true line bet secs 6 & 31 over gently rolling ground
38.95 Wash drains S. 45° E.
40.00 Set a face stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist & raised a mound of earth 3 ft base 1½ ft high N. of cor.
54.31 Willow Springs & Trout Creek road bears N 15° W & S 15° E.
93.40 The cor. Tps 12 & 13 S. Rs 17 & 18 W.
Land gently rolling
Soil sandy 3" rate drains S. E.
Land covered with dense shadscale and sagebrush underground 93.40 chs.

Boundaries of T12 S R17 W.

Latitude, departures and closing errors.

Line Designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
S. bdy. T12 S. R. 17 W.	East	493.40			493.40	
E. " " "	North	495.15	495.15			
N. " " "	S 89° 49' W.	493.74		1.58		493.74
Willow Springs Guide Mer.	S.	493.47		493.47		
Convergency						.61
Totals			495.15	495.05	493.40	494.35
			495.05			493.40
Error in lat			0.10	Error in Dep		0.95

For general description see notes on subdivisions this Twp.

Alonzo J. Stookey
U.S. Dep. Surveyor.
August 4, 1899.

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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:

In final affidavits see book V. Tp 85 R20 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 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 .....

In final affidavits see book V. Tp 85 R20 W

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *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 ..... United States Surveyor General for ....., bearing date of the ..... 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, November 6, 1903, 189

The foregoing field notes of the survey of the East & South Boundaries of Township 12 South Range 17 West of the Salt Lake Base & Meridian, Utah

.....

.....

.....

.....

executed by Alonzo J. Stookey under his contract No. 214, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Rudolph

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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N.

BOOK A-296

19

FIELD NOTES

OF THE ~~SURVEY~~ RETRACEMENT OF THE

North Boundary

of

Township 12 South Range 17 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J. Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

~~Survey~~ Retracement commenced August 5", 1899

~~Survey~~ Retracement completed August 5", 1899

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Ret Lowe 6-13-74

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyram Millward	Chainman
Richard Orr	Chainman
G. L. Stookey	Roundman
Roger Millward	Axman
Roger Millward	Flagman

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BOOK A-296

INDEX DIAGRAM.

Township _____ . *Range* _____

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31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, Hyrum Millward and Richard Orr 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~~ retracement of the N. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian, Utah. Hyrum Millward, Chainman.
Richard Orr, Chainman.

Subscribed and sworn to before me this 29 day of May, 1899.
SEAL
Alonzo J. Stookey
U. S. Deputy Surveyor

We, G. L. Stookey and
do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the ~~survey of~~ retracement of the N. bdy. of T. 12 S. R. 17 W. Salt Lake Base and Meridian, Utah. G. L. Stookey, Moundman.
, Moundman.

Subscribed and sworn to before me this 29 day of May, 1899.
SEAL
Alonzo J. Stookey
U. S. Deputy Surveyor

We, Roger Millward and
do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me to the best of ~~our~~ my skill and ability, in the ~~survey of~~ retracement of the N. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian, Utah. Roger Millward, Axman.
, Axman.

Subscribed and sworn to before me this 29 day of May, 1899.
SEAL
Alonzo J. Stookey
U. S. Deputy Surveyor

I, Roger Millward, 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~~ retracement of the N. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian, Utah. Roger Millward, Flagman.

Subscribed and sworn to before me this 29 day of May, 1899.
SEAL
Alonzo J. Stookey
U. S. Deputy Surveyor

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Retracement of N. bdy. of T. 12 S. R. 17 W.

My closing on the N. bdy. indicating that the corners thereon are out in measurement beyond the allowable limit, and as T. 11 S. R. 17 W. has been subdivided, and therefore the said corners cannot be changed; I proceed to retrace said line as follows:

Beginning at the established cor. of Tps. 11 and 12 S. Rs 16 and 17 W., which is a quartzite stone 16×20×9 ins. above ground marked and witnessed as described by the Surveyor General. (I sight at a flag previously set at the cor. of Tps. 11 & 12 S. Rs 17 and 18 W. which is plainly visible, I find the course to be S. 89° 49' W.)

Thence I run

S. 89° 49' W. on retracement line on S. bdy. of sec. 36. T. 11 S. R. 17. W.

(Over almost level land through dense sagebrush, shadscale and greasewood undergrowth.)

13.50 Pipe NW & SE.

41.40 The 1/4 sec. cor. on S. bdy. sec. 36 which is a quartzite stone 5×10×10 ins above ground marked and witnessed as described by the Surveyor General.

82.73 The cor. of secs. 35 and 36 which is a granite stone 5×12×10 ins above ground marked and witnessed as described by the Surveyor General.

Land almost level

Soil sandy 3" rate

Land covered with dense undergrowth 82.73 chs.

Thence I run

S. 89° 49' W. on S. bdy sec. 35.

Retracement of N. bdy of T. 12 S R 17 W.

Chains	
	Over almost level land through dense undergrowth.
41.48	The 1/4 sec. cor. on S. bdy. of sec 35. which is a granite stone 4x10x8 ins. above ground marked and witnessed as described by the Surveyor General.
83.00	The cor. of secs 34 and 35 which is a granite stone 5x10x8 ins. above ground marked and witnessed as described by the Surveyor General.
	Land almost level
	Soil sandy 3rd rate.
	Land covered with dense undergrowth. 83.00 chs.
	Thence Gunn
	S. 89° 49' W. on S. bdy of sec 34.
	Over almost level land through dense undergrowth.
41.45	The 1/4 sec. cor. on S. bdy. of sec. 34 which is a granite stone 6x12x10 ins, above ground marked and witnessed as described by the Surveyor General.
82.84	The cor. of secs 33 and 34 which is a granite stone 6x12x12 ins. above ground marked and witnessed as described by the Surveyor General.
	Land almost level
	Soil gravel, 3rd rate.
	Land covered with dense undergrowth 82.84 chs.
	Thence Gunn
	S. 89° 49' W. on S. bdy. of sec 33
	Over slightly undulating ground up gentle ascent through dense undergrowth.

Resurvey of N. bdy of T. 12 S. R. 17 W.

6.00 Top of ascent, bears N. and S.
33.50 Enter so called Mud Lake, bears N. and S.
41.00 The 1/4 sec. cor. on S. bdy of sec 33 which is a granite stone 7X10X8 ins above ground marked and witnessed as described by the Surveyor General
41.50 Leave Mud Lake bears N. and S. and begin gentle ascent.
55.80 Top of ascent, bears N.W. and S.E. and begin gentle descent.
81.84 The cor. of secs 32 and 33 which is a granite stone 6X10X4 ins. above ground marked and witnessed as described by the Surveyor General.
Land undulating
Soil gravel 3rd rate.
Land covered with dense under-growth 73.84 chs.

Thence run
S.89°49' W. on S. bdy of sec. 32,
Over undulating ground through dense undergrowth.
41.34 The 1/4 sec. cor. on S. bdy of sec. 32 which is a granite stone 6X10X8 ins. above ground marked and witnessed as described by the Surveyor General.
82.70 The cor. of secs. 31 and 32 which is a granite stone 6X10X8 ins. above ground marked and witnessed as described by the Surveyor General.
Land undulating and broken
Soil stone and gravel 3rd rate.
No timber
Land covered with dense under-growth 82.70 chs.

Retracement of N. bdy. of T 12 S R 17 W.

Thence Run
S. 89°49 W. on S. bdy. of sec. 31.
Over broken land approaching foot of mountain.

10.00 Begin ascent which gradually becomes steeper.

15.50 Bend of Birch Creek. heads S.W. flows S.E.

39.80 Bend of Birch Creek. heads S.W. flows S.E.

40.60 The 1/4 sec. cor. on S. bdy of sec 31. which is a granite stone 6x12x7 ins. above ground marked and witnessed as described by the Surveyor General.

53.60 Birch Creek a fine stream 10 lks wide course S.E.

60.48 Birch Creek (same as above) course N.E.

74.50 Birch Creek (same as above) course S.E.

80.63 The cor. of Tps 11 and 12 S. Rs 17 and 18 W. which is a stationary granite boulder 20x12x10 ft. above ground marked and witnessed as described by the Surveyor General.
Sand rolling and broken
Soil, gravel and boulders 3" rate
Sand covered with dense under-growth 80.63 chs.

For General Description see notes on subdivisions of this Tp.

Alonzo J. Stookey
U.S. Deputy Surveyor.

August 5. 1899.

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~~ retracement of the N. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah, showing the respective capacities in which they acted:

Hyrum Millward, *Chainman.*
Richard Orr, *Chainman.*
G. L. Stookey, *Moundman.*
, *Moundman.*
Roger Millward, *Axman.*
Roger Millward, *Axman.*
Roger Millward, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alonzo J. Stookey, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the N. bdy. T. 12 S. R. 17 W. of the Salt Lake Base 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.

Hyrum Millward, *Chainman.*
Richard Orr, *Chainman.*
G. L. Stookey, *Moundman.*
, *Moundman.*
Roger Millward, *Axman.*
, *Axman.*
Roger Millward, *Flagman.*

Subscribed and sworn to before me this 24 day of August, 1899

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, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 29 day of October, 1897, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of the N. bdy. T. 12 S. R. 17 W.

of the Salt Lake Baseand meridian, in the State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced 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; 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.

Alonzo J. Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J. Stookey, and sworn to before me this 31 day of January, 1902

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 16 1903, 189

The foregoing field notes of the ~~survey~~ retracement of the Nth Boundary of Township 12 South Range 17 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 216, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracement they describe, are hereby approved.

Edward H. Anderson
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-296

FIELD NOTES

OF THE RE-SURVEY OF THE

Willow Springs Guide Meridian

on

West Boundary T12 S R17 W

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J. Stookey; United States Deputy Surveyor,

Under his Contract No. 216, dated Oct. 29, 1897

Survey commenced August 6, 1899

Survey completed August 6, 1899

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h 6-13-47

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyram Millsward	Chainsman
Richard Orr	"
G. S. Stookey	"
Roger Millsward	"
G. S. Stookey	Mounduman
Roger Millsward	Axman
Roger Millsward	Flagman

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BOOK A-296

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hyrum Millward, Richard Orr, G. L. Stookey & Roger Millward do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the RE-survey of the Willow Springs Guide Meridian on the W. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah

Hyrum Millward, Roger Millwards, Chainman.

Richard Orr, G. L. Stookey, Chainman.

Subscribed and sworn to before me this 29 day of May, 1899

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~WE~~, G. L. Stookey ~~and~~

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the RE-survey of the Willow Springs Guide Meridian on the W. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah

G. L. Stookey, Moundman.

, Moundman.

Subscribed and sworn to before me this 29 day of May, 1899

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

~~WE~~, Roger Millward ~~and~~

do solemnly swear that ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the RE-survey of the Willow Springs Guide Meridian on W. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah

Roger Millward, Axman.

, Axman.

Subscribed and sworn to before me this 29 day of May, 1899

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

I, Roger Millward, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the RE-survey of the Willow Springs Guide Meridian on W. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah

Roger Millward, Flagman.

Subscribed and sworn to before me this 29 day of May, 1899

SEAL

Alonzo J. Stookey
U.S. Deputy Surveyor

6—151

Resurvey of the Willow Springs Guide Meridian on West Boundary of T. 12 S. R. 17 W.

18 chains	The closing of the E. bdy. indicating that the W. bdy is in excess of the length reported to be, before subdividing I conclude to retrace the same.
	On Aug 6. 1899. I begin at the cor. of Tps. 11 & 12 S. Rs 17 & 18 W. which is a stationary granite boulder, 20x12x10 ft. above ground marked and witnessed as described by the Surveyor General.
	Thence Drum
	S. on retracement line along the W bdy of the T.
49.34	Intersect the S. bdy of the T. at the cor. of Tps 12 & 13 S Rs 17 & 18 W. heretofore described.
	My retracement shows the course practically correct while in measurement it is on an average of 2.34 chs. per mile in excess of what it is reported to be, which is far beyond the allowable limit.
	I therefore proceed to re-survey the same as follows.
	Commencing at the cor. of Tps 12 & 13 S Rs 17 & 18 W. mentioned above
	Thence Drum
	N. bet. secs. 31 & 36 on re-survey line
	Over gently rolling ground covered with dense sagebrush, shadscale and greasewood undergrowth.
25.50	Gully, drains S. 45° E.
	Difference between measurements of 40.00 chains by two sets of chainmen is 10 lks.; position of middle point
	By 1st set, 40.05 chs.
	By 2d set 39.95 chs; the mean of which is

Resurvey of the Willow Springs Guide Meridian on W. Bdy. of Tp. 8 R. 17 W.

40.00 Set a sandstone 20×16×6 ins 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face. dug pits 18×18×12 ins. N and S. of stone 3 ft dist and raised a mound of earth 3½ ft base 1½ ft. high N. of cor.

41.28 The old 1/4 sec. cor. which is a quartzite stone 5×12×6 ins. above ground marked and witnessed as described by the Surveyor General. I destroy all trace of same.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 14 lks.: position of middle point By 1" set 79.93 chs
" 2" " 80.07 chs.; the mean of which is

80.00 Set a quartzite stone 15×10×6 ins 10 ins. in the ground for cor. of secs 25. 30. 31 & 36 marked 1 notch on S. and 5 notches on N. edges, raised a mound of stone 2 ft base 1½ ft high N. of cor.

Pits impracticable

Land very gently rolling.

Soil. sand and gravel 3rd rate

No timber

Land covered with dense under-growth 80.00 chs.

N. on resurvey line bet. secs 25 & 30 Over gently rolling land up gentle ascent through dense shadscale sagebush and grease-wood undergrowth over series of washes Bearing S 45° E.

2.56 Old cor. of secs 25. 30. 31 & 36 which is a quartzite stone 6×15×8 ins. above ground marked and witnessed as described by the Surveyor General. I destroy all traces of same.

Resurvey of the Willow Springs Guide Meridian on W. Bdy. of Tp. 8 S. R. 17 W.

Chains	
21.00	Top of knoll
32.52	Road bears E. & W. ascent becomes steeper
	Difference bet. measurements of 40.00 chs by two sets of chainmen is 16 lks.; position of middle point By 1" set. 40.08 chs. " 2" " 39.92 " the mean of which is
40.00	Set a quartzite stone 15 x 10 x 6 ins. 10 ins. the ground for 1/4 sec. cor. marked 1/4 on W. face, dug pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist. and raised a mound of earth 3½ ft base 1½ ft high W. of cor.
43.38	The old 1/4 sec. cor. which is a quartzite stone 6 x 10 x 8 ins. above ground marked and witnessed as described by the Surveyor General. Destroy all traces of same.
46.00	Top of ascent bears E. & W.
48.00	Begin descent bears E. & W.
51.15	Bottom of hollow. drains E. & ascend. to table land
52.00	Top of ascent. bears E. & W.
70.27	Begin steep descent. bears E. & W.
71.45	Bottom of steep descent
74.76	Dry bed of creek. drains N. 70° E.
76.00	Begin steep ascent of table land bears E. & W.
	Difference bet. measurements of 80.00 chs by two sets of chainmen is 12 lks. position of middle point By 1" set 79.94 chs. " 2" " 80.06 chs. the mean of which is
80.00	Set a quartzite stone 15 x 8 x 6 ins. 10 ins. in the ground for cor. of secs. 19. 24. 25 and 30 marked 2 notches on the S. and 4 notches on the N. edges, dug pits 18 x 18 x 12 ins

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Resurvey of the Willow Springs Guide on W. Bdy of T. 12 S. R. 17 W.

in each section 5½ ft dist. and raised a mound of earth 4 ft. base 2 ft high N. of cor.
Land rolling and slightly broken
Soil, gravel. 3" rate
No timber
Land covered with dense under growth 80.00 chs.

Iron re-survey line bet. secs 19 & 24
Over rolling ground up steep gradually ascent, through dense sage brush shadscale and undergrowth
4.00 Top of table land bears E. & W.
4.20 Old cor. of secs 19, 24, 25 and 30 which is a quartzite stone 7x14x10 ins. above ground marked and witnessed as described by the Surveyor General. bears E. 2 lks dist. & destroy all traces of same.
14.00 Begin steep descent
16.90 Series of gullies, drain E.
36.65 Begin moderate ascent.
Difference in measurements of 40.00 chs. by two sets of chainmen is 15 lks.; position of middle point By 1" set 40.07½ chs.
" 2" " 39.92½ " the mean of which is
40.00 Set a quartzite stone 15x6x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18x18x12 ins N & S of stone 3 ft dist. and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
45.26 Old 1/4 sec. cor. which is a quartzite stone 6x12x12 ins above ground marked and witnessed as described by the Surveyor General.
& destroy all traces of same.
45.50 Top of ascent, bears E. & W.

Resurvey of the Willow Springs Guide Meridian on N. Bly T 12 S R 17 W.

Chains	
54.00	Begin steep descent, bears E & W.
57.75	Bottom of descent, hollow drains E. and ascend.
62.20	Top of ascent bears E & W. and descend
63.50	Bottom of hollow, drains E. & ascend
65.50	Top of ascent, bears E & W.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen is 12 lks position of middle point
	By 1" set 80.06 chs
	" 2" " 79.94 chs, the mean of which is
80.00	Set a quartzite stone 15x8x8 ins. 10 ins. in the ground for cor of secs. 13, 18, 19 and 24, marked with 3 notches on N and S. edges and raised a mound of stone 2 ft. base 1½ ft high W of cor.
	Pits impracticable
	Sand gently rolling.
	Soil, gravel. 3" rate
	No timber
	Sand covered with dense undergrowth 80.00 chs.
	N. on re-survey line bet. secs. 13 & 18
	Over gently rolling ground covered with dense sagebrush shadscale and greasewood undergrowth.
6.33	Intersect the old cor. of secs 13, 18, 19 & 24 which is a quartzite stone 10x17x15 ins. above ground marked and witnessed as described by the Surveyor General. I destroy all traces of same.
17.80	Road bears E & W.
24.00	Large gully, drains E.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen is 14 lks. position of middle point
	By 1" set 40.07 chs
	" 2" " 39.93 chs. the mean of which

Resurvey of the Yellow Springs Guide Meridian on W. Bdy. of T. 12 S. R. 17 W.

Chains

40.00 Set a quartzite stone 18 X 10 X 8 ins 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face. dug pits 18 X 18 X 12 ins N. & S. of stone 3 ft. dist and raised a mound of earth 3½ ft base 1½ ft high W. of cor.

47.76 Intersected old 1/4 sec cor. which is a quartzite stone 7 X 12 X 10 ins. above ground marked and witnessed as described by the Surveyor General & destroyed all trace of same

63.43 Road bears E & W. and descend into wash 25 ft. dist.

64.50 Bottom of wash. course E. and ascend

65.60 Top of ascent.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 12 lks. holding of middle point

By 1st set 79.94 chs.

" 2d " 80.06 " the mean of which is

80.00 Set a quartzite stone 18 X 8 X 10 ins. 12 ins in the ground for cor. of secs. 7, 12, 13 & 18. marked 2 notches on the N. and 4 notches on the S. edges. dug pits 18 X 18 X 12 ins in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high W. of cor.

Land gently rolling

Soil gravelly 3rd rate

No timber

Land covered with dense undergrowth

80.00 chs.

On re-survey line bet secs 7 & 12. Over land sloping gently to the east. through dense sagebrush shadscale and greasewood undergrowth

Resurvey of the Willow Springs Guide Meridian
on N. Bdy. of T. 12 S. R. 17 W.

8.79 Intersect the old cor. of secs 7, 12, 13 & 18 which is a post 4 ins square 3 ft above ground marked and witnessed as described by the Surveyor General. Destroy all trace of same.
Difference bet. measurements of 40.00 chs. by two sets of chainmen is 10 lks, the position of middle point By 1" set 40.05 chs.
" 2" " 39.95 chs. the mean of which is
40.00 Set a quartzite stone 15X8X6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, dug pits 18X18X12 ins N and S. of stone 3 ft. dist. and raised a mound of earth 3½ ft base 1½ ft high W. of cor.
50.21 Intersect the old 1/4 sec. cor. which is a quartzite stone 6X12X10 ins above ground marked and witnessed as described by the Surveyor General. Destroy all traces of same.
Difference bet. measurements of 80.00 chs. by two sets of chainmen is 16 lks. Position of middle point By 1" set 80.08 chs
" 2" " 79.92 chs. the mean of which is
80.00 Set a granite stone 15X8X6 ins 10 ins. in the ground for cor. of secs. 1, 6, 7 & 12 marked 1 notch on N. and 5 notches on S. edges, dug pits 18X18X12 ins. in each section 5½ ft dist. and raised a mound of earth 4 ft. base 2 ft high W. of cor.
Land gently rolling
Soil gravel 3" rate
No timber
Land covered with dense undergrowth
80.00 chs.

Resurvey of The Willow Springs Guide Meridian on N. Bdy of T12S R17E

Chains	
	N. on re-survey line bet. secs 1 & 6. Over gently rolling ground through dense sagebrush shad scale and greasewood undergrowth
11.70	Intersect the old cor. of secs 1, 6, 7 & 12, which is a post 4 ins. square and 3 ft above ground marked and witnessed as described by the Surveyor General I destroy all traces of same.
21.20	Begin descent into hollow
23.00	Bottom of hollow drains E.
24.10	Top of ascent and pass over series of small swales, drain E.
37.00	Begin descent into large hollow Difference bet. measurements of 40.00 chs by two sets of chainmen is 14 lks. Position of middle point By 1" set 39.93 chs " 2" " 40.07 chs. the mean of which is
40.00	Set a granite stone 15x8x6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dug pits 18x18x12 ins. N and S. of stone 3 ft dist. and raised a mound of earth 3½ ft base 1½ ft high W. of cor.
48.00	Bottom of hollow drains E. and ascend very steep bank 40 ft high After diligent search I fail to find any trace of old cor.
58.44	Top of hill, bears E & W.
62.40	Enter land covered with huge granite boulders.
68.80	Small hollow, drains E.
79.00	Rocky point bears E & W.
82.00	Small hollow drains E. Difference bet. measurements of 93.47 chs by two sets of chainmen 22 lks. Position of middle point By 1" set 93.58 chs " 2" " 93.36 chs. the mean of which is
93.47	Intersect the cor. of Tps 11 & 12 S

Resurvey of the Willow Springs Guide Meridian on N. Bdy. of T. 12 S. R. 17 W.

Rs 17 & 18 W. which is a stationary granite boulder 20 x 12 x 10 ft. above ground heretofore described

Sand rolling somewhat broken

Soil. stony 3 rate

No timber

Sand covered with dense under-growth 93.47 chs.

For general description see notes on subdivisions T. 12 S. R. 17 W.

Alonzo J. Stookey
U.S. Dep. Surveyor.

Aug 6. 1899

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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 Willow Springs Guide Meridian on W. bdy. T. 12 S. R. 17 W. Salt Lake Base and Meridian Utah showing the respective capacities in which they acted:

Hyrum Millward, Richard Orr, Chainman.
G. L. Stookey and Roger Millward, Chainman.
G. L. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, 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 Willow Springs Guide Meridian on W. bdy. T. 12 S. R. 17 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

Hyrum Millward, Roger Millward, Chainman.
Richard Orr, G. L. Stookey, Chainman.
G. L. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, Flagman.

Subscribed and sworn to before me this 29 day of May, 1899

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, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 29 day of October, 1897, 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, re-surveyed all those parts or portions of the Willow Spring Guide Meridian on the W. bdy of T. 12 S. R. 17 W.

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

Alonzo J Stookey
United States Deputy Surveyor.

Subscribed by said Alonzo J Stookey, and sworn to before me this 31st day of May 1902 189

Edward H Anderson
U S Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah November 30 1903 189

The foregoing field notes of the re-survey of the Willow Spring Guide Meridian on West Boundary of Township 12 South Range 17 West of the Salt Lake Base & Meridian Utah

executed by Alonzo J Stookey under his contract No. 26, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the re-surveys they describe, are hereby approved.

Edward H Anderson
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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NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward Chainman
Richard Orr "
George S. Stookey Moundman
Roger Millward Axman
Roger Millward Flagman

For preliminary affidavits see book B. Tp. 75 R6W

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Volume
#
R0296

52 Filed Jan. 3. 1907. E.B.L. BOOK A-296

4—679.

P.

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 12 South Range 17 West

Of the Salt Lake Base Meridian,

State of Utah

AS SURVEYED BY

Alonzo J Stookey, United States Deputy Surveyo

Under his Contract No. 216, dated Oct 29, 189

Survey commenced Aug 7, 189

Survey completed Aug 12, 189

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h 60.21 91

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Avg 41-83

Subdivision of T. 12 S. R. 17 W.

Chains	
	Commence Aug. 7-1899. with the instrument described in Book "A." At the cor. of sec. 1-2-35 & 36 on the S. bdy. of the Tp. Thence S run N. 0° 01' W. between secs. 35 & 36. Over gently rolling land almost level
10.00	Begin very gentle descent.
40.00	Set lava stone 18 X 8 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
60.00	Foot of descent enter level flat.
73.75	Trout Creek and Fish Spring road bears N. 50° E. & S. 50° W.
80.00	Set lava stone 18 X 10 X 10 ins. 12 ins. in the ground for cor to secs. 25, 26, 35 & 36. marked 1 notch on S. & E. edges dug pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. and raised a mounds of earth 4 ft. base 2 ft. high W. of cor. Land gently rolling or level. Soil sandy 3" rate Grains E. Land covered with dense sagebrush greasewood and shadscale under-growth, 80.00 chs.
	E. on random line bet. secs. 25 & 36
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect E. bdy. of Tp. 10 lks. N. of cor. of secs. 25-30-31 & 36 heretofore described. Thence S run N. 89° 56' W. on true line bet. secs. 25 & 36. Over almost level land.
40.00	Set lava stone 18 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins E. & W.

Chains	
	of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
71.63	Trout Creek and Fish Spring road bears N. 50° E. S. 50° W.
80.00	The cor. of secs. 25-26-35 & 36. Land gently rolling and level. Soil sandy 3" rate. Drains N. Land covered with dense sagebrush shadscale and greasewood undergrowth 80.00 chs.
	N. 0°. 01' W. between secs. 25 & 26. Over level land or very gently rolling sand.
40.00	Set lava stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 10 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 ft. base 1½ ft. high W. of cor.
67.00	Land becomes less sandy undergrowth becomes very dense.
78.00	Undergrowth becomes less dense.
80.00	Set a lava stone 20 X 10 X 8 ins. 15 ins. in the ground for cor. of secs. 23-24 25 & 26. marked 2 notches on S. and 1 notch on E. edges dug pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land very gently rolling or level Soil sandy 3" rate Drains N. Land covered with dense sagebrush shadscale and greasewood undergrowth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	S. 89°. 56 E. on random line bet. secs. 24 & 25.
40.00	Set temp. 1/4 sec. cor.
79.90	Intersect E. bdy. of Tp. 12 lks. N. of cor. secs. 19-24-25 & 30. heretofore described.
	Thence I run
	N. 89°. 51' W. on true line bet. secs. 24 & 25. Over level land
16.70	Enter alkali flat bears N. & S.
24.30	Leave alkali flat bears N. & S.
39.95	Set a lava stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
48.50	Road bears N. & S.
79.90	The cor. of secs. 23, 24, 25 & 26.
	Land level and gently rolling
	Soil sandy 3" rock
	Drains N. E.
	Land covered with dense sagebrush shadscale and greasewood undergrowth
	79.90 chs.
	N. 0°. 01' W. bet. secs. 23 & 24
	Over level land.
40.00	Set a lava stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. ~~marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.~~
80.00	Set a lava stone 15 X 8 X 8 ins. 10 ins. in the ground for cor. to secs. 13-14-23 & 24 marked with 3 notches on S. & 1 notch on E. edges; dug pits 18 X 18 X 12 ins. in each sec. 3 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor
	Land level
	Soil sandy 2" rock drains E.
	Land covered with dense undergrowth 80.00 chs

Chains	
	S. 89° 51' E. on random line bet. secs. 13 & 24
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect E. bdy. of Tp. at cor. of secs. 13-18-19 & 24 heretofore described.
	Thence I run
	N. 89° 51' W. on true line bet. secs. 13 & 24
	Over almost level land, alkali flat
40.00	Set a lava stone 15 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
57.50	Road N. 5° W. & S. 5° E.
63.00	Leave alkali flat bears N. & S.
80.00	The cor. of secs. 13-14-23 & 24
	Land level.
17/63	Soil sandy 2" rate
	Land covered with dense greasewood and shadscale undergrowth 17.00 chs.
	N. 0° 01' W. bet. secs. 13 & 14
	Over level ground
40.00	Set a lava stone 24 X 18 X 12 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
61.00	Begin steep ascent bears E. & W.
75.65	Top of ascent 40 ft. high and descend.
80.00	Set a lava stone 15 X 8 X 8 ins. 10 ins. in the ground for cor. to secs. 11-12-13 & 14 marked 4 notches on S. & 1 notch on E. edges dug pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level and rolling
	Soil sandy 3" rate
	Drains E.
	Land covered with dense shadscale and greasewood undergrowth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	S. 89° 51' E. on random line between secs. 12 & 13.
40.00	Set temp 1/4 sec. cor.
79.98	Intersect E. bdy. of Tp. 7 lks. S. of cor. 7-12-13 & 18. heretofore described.
	Thence I run
	N. 89° 54' W. on true line bet. secs. 12 & 13.
	Over gently undulating ground.
21.90	Road bears N. 5° W. & S. 5° E.
39.99	Set a lava stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
79.98	The cor. of secs. 11-12-13 & 14.
	Land level and undulating
	Soil sandy 2" & 3" rock.
	Drains S. E.
	Land covered with dense shadscale and greasewood undergrowth 79.98 ch.
	N. 0° 01' W. between secs. 11 & 12.
	Over sandy undulating ground.
11.50	Small hollow drains S. 60° E. and begin gradual ascent.
24.46	Road bears N. 70° E. and S. 70° W.
34.00	Top of ascent bears N. 75° E. & S. 75° W. begin descent.
40.00	Set a granite stone 15 X 10 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
73.00	Foot of descent.
80.00	Set a lava stone 20 X 10 X 6 ins. 15 ins. in the ground for cor. to secs. 1-2-11 & 12 marked 5 notches on S. and 1 notch on E. edge raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
	Land gently rolling.

Subdivisions of T. 12 S. R. 17 W.

	Soil sandy 3" rate
	Drains E.
	Land covered with dense undergrowth 80.00 chs.
	S. 89°54' E. on random line bet. secs. 1 & 12.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect E. bdy. of Tp. 7 lks. S. of cor. to secs. 1-6-7 & 12 heretofore described.
	Thence Drun
	N. 89°57' W. on true line bet. secs 1 & 12.
	Over almost level sandy ground.
9.00	Road bears N. 40° E. & S. 40° W.
10.70	Road bears N. & S.
40.00	Set a lava stone 12X10X6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18X18X12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 1-2-11 & 12.
	Land almost level
	Soil sandy 2" & 3" rate
	Drains E.
	Land covered with dense shadscale and greasewood undergrowth 80.00 chs.
	Knowing my intersection with the N. bdy. will not be within limits.
	Thence Drun
	N. 0°01' W. on true line bet. secs. 1-2.
	Over land almost level
40.00	Set a lava stone 13X6X6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18X18X12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
94.85	Intersect N. bdy. of Tp. 3.04 ch N. 89°49' E. of cor. of secs. 35 & 36 T. 11 S. R. 17 W. which is a granite stone stone 6X12X10 ins above ground marked and witnessed as described by the Surveyor General.
	Set a lava stone 14X10X6 ins. 10 ins. in the ground for closing corner to secs. 1 & 2 marked C.C. on S. face 1 groove on E. & 3 grooves on W. faces dug pits 24X18X12 ins. crossmarks on each line E. & W. 3 ft. & S. of stone 7 ft. dist. raised a mounds of earth 4 ft. base 2 ft. high S. of cor.

Subdivisions of T. 12 S. R. 17 W.

	Land almost level Soil sandy 2" & 3" rate Drains E. Land covered with dense shadscale and greasewood undergrowth 94.75 chs.
	From the cor. of secs. 2-3-34 & 35 on S bdy. of the Tp. heretofore described. Thence I run N. 0°.01' W. on true line bet. secs. 34 & 35.
7.56	Road bears N. 48° E. & S. 48° W. Trout Creek and Fish Spring.
40.00	Set a lava stone 12X10X6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18X18X12 ins., N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
55.00	Road bears N. 60° W. & S. 60° E.
59.00	Enter salt grass bears E. & W.
71.00	Leave salt grass bears E. & W.
80.00	Set a lava stone 14X8X6 ins. 10 ins. in the ground for cor. of secs. 26-27-34 & 35. marked 1 notch on S. & 2 notches on E. edges dug pits 18X18X12 ins. in each section 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
68/12	Land almost level Soil sandy 2" & 3" rate Land covered with dense shadscale and greasewood undergrowth. 68.00 chs.
	E. on random line bet. secs. 26 & 35.
40.00	Set temp 1/4 sec. cor.
80.02	Intersect N. & S. line at cor. of secs. 25-26-35 & 36. Thence I run W. on true line bet. secs. 26 & 35.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	Over almost level land.
40.01	Set a lava stone 12X8X6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18X18X12 ins. E. & W. of stone 3 ft. dist: raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.02	The cor. of secs. 26-27-34 & 35-.
	Land almost level.
	Soil sandy 3" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.02 chs.
	N. 0°01' W. on true line bet. secs. 26 & 27.
	Over almost level land.
40.00	Set a lava stone 12X8X6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18X18X12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set a granite stone 16X10X8 ins. 11 ins. in the ground for cor. to secs. 22-23-26 & 27. marked 2 notches on S. & 2 notches on E. edges raised a mound of stone 2 ft. base 1 1/2 ft. high. W. of cor.
	Pits impracticable.
	Land almost level.
	Soil sandy 3" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.00 chs.
	E. on random line bet. secs. 23 & 26.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. & S. line at cor. of secs. 23-24-25 & 26.
	Thence I run
	W. on true line bet. secs. 23 & 26.
	Over almost level land
40.00	Set granite stone 16X6X6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	Dug pits 18X18X12 ins. E. & W. of stone 8 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
50.00	Foot of table land and begin steep ascent bears N. & S.
63.25	Top of ascent & table land 40 ft. high.
70.60	Begin steep descent from table land.
73.50	Foot of steep descent bears N. & S.
80.00	The cor. of secs. 22-23-26 & 27.
	Land level and rolling
	Soil sandy 3" rate
	Land covered with dense shadscale sagebrush and greasewood undergrowth 80.00 chs.
	Aug. 8-1899.
	N. 0°. 01' W. on true line bet. secs. 22 & 23.
	Over slightly rolling ground along W. side of table land.
40.00	Set quartzite stone 14X6X6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face dug pits 18X18X12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
80.00	Set a granite stone 20X12X8 ins. 15 ins. in the ground for cor. of secs. 14-15-22 & 23 marked 3 notches on the S. & 2 notches on the E. edges dug pits 18X18X12 ins. in each section 5½ ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land slightly broken
	Soil sand and gravel 3" rate
	Lands covered with dense greasewood and shadscale undergrowth 80.00 chs.

Chains	
	E. on random line bet. secs. 14 & 23.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect the N. & S. line at the cor. of secs. 13-14-23 & 24.
	Thence True W. on true line bet. secs. 14 & 23. Over land sloping gently to the E.
40.00	Set a granite stone 20 X 12 X 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
45.00	Foot of hill bears N. & S.
53.40	Top of hill or table land bears N. & S.
71.00	Begin gradual descent to cor. from table land bears N. & S.
80.00	The cor. of secs. 14-15-22 & 23 Land slightly rolling or broken. Soil sand and gravel 3" rate Drains E. Land covered with dense sagebrush & shadscale & greasewood undergrowth 80.00 chs.
	N. 0°.01' W. on true line bet. secs. 14 & 15. Over gently rolling ground sloping W.
36.00	Foot of table land bears N. 50° W. & S. 50° E.
40.00	Set a granite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
44.50	Top of table land bears N. 70° W. & S. 70° E.
56.50	Road bears N. 75° E. & S. 75° W.
80.00	Set a granite stone 20 X 12 X 8 ins. 15 ins. in the ground for cor to secs. 10-11-14 & 15 — marked 4 notches on the S. & 2 notches on the E. edges, dug pits. 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	Land gently rolling
	Soil, gravelly 3" & 4" rate
	Land covered with dense shadscale sagebrush and greasewood under-growth 80.00 chs.
	E. on random line bet. secs. 11 & 14.
40.00	Set temp 1/4 sec. cor.
80.04	Intersect N. & S. line 5 lks N. of cor. of secs. 11-12-13 & 14.
	Thence Drew
	N. 89° 58' W. on true line bet. secs. 11 & 14.
	Over gently rolling ground up gradual ascent.
10.25	Top of ridge 40 ft. high bears N. & S. and begin descent into hollow
13.85	Bottom of hollow bears N. & S. and begin gradual ascent over rolling sand ridges
27.00	Leave sand ridges bears N. & S. and begin gradual descent.
40.02	Set a quartzite stone 16 X 8 X 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
43.50	Foot of descent & enter alkali flat bears N. 45° W. & S. 45° E.
61.00	Leave alkali flat bears N. & S. and begin gradual ascent.
63.45	Top of ascent on table land bears N. & S.
80.04	The cor. of secs. 10-11-14 & 15.
62.54 / 17.50	Land rolling and slightly broken
	Soil sandy 3" & 4" rate
	Land covered with dense undergrowth
	62.54 chs.

Chains	
	N. 0°. 01' W. on true line bet. secs. 10 & 11
	Over land almost level
14.30	Road bears E. & W.
23.00	Enter rocky knolls bears E. & W.
30.00	Leave rocky knolls bears E. & W. and proceed over level land.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
80.00	Set a quartzite stone 18 X 7 X 6 ins. 12 ins. in the ground for cor. to secs. 2-3-10 & 11 marked 3 notches on the S. and 2 notches on E. edges. Raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
	Land slightly broken and level
	Soil stony 3" & 4" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.00 chs.
	S. 89°. 58' E. on random line bet. secs. 2 & 11:
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect N. & S. line at cor. of secs. 1-2-11 & 12.
	Thence I run
	N. 89°. 58' W. on true line bet. secs. 2 & 11.
	Over rolling and level ground
3.50	Foot of ascent onto table land bears N. & S.
4.85	Top of ascent of table land and thence over level land.
39.99	Set a quartzite stone 16 X 8 X 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stone 2 ft base 1 1/2 ft. high N. of cor.
	Pits impracticable.

Chains	
47.00	Enter rocky knoll bears N. & S.
60.00	Leave rocky knoll bears N. & S.
79.98	The cor. of secs. 2-3-10 & 11.
	Land slightly broken and level.
	Soil stony 4" rate
	Land covered with dense sagebrush and greasewood undergrowth 79.98 chs.
	Knowing I will not intersect the N. bdy of the Tp. within limits -
	Thence I run
	N. 0°.01' W. on true line bet. secs. 2 & 3.
	Over level land
40.00	Set a quartzite stone 20 X 8 X 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor
94.60	I intersect N. bdy. of Tp. 5.96 chs. N. 89°.49' E. of the cor. of secs. 34 & 35 T. 11 S. R. 17 W. which is a granite stone 5 X 10 X 8 ins. in a ground marked and witnessed as described by the Surveyor General set a quartzite stone 20 X 10 X 6 ins. 15 ins. in the ground for closing cor. to secs. 2 & 3. marked C.C. on S. face and 2 grooves on the E. and 4 grooves on the W. faces, dug pits 24 X 18 X 12 ins. crosswise on each line E. & W. 3 ft. and S. of stone 7 ft. dist: and raised a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land level.
	Soil, stony, 4" rate
	Land covered with dense shadscale and sagebrush undergrowth 94.60 chs.

Chains	
	From the cor. of secs. 3-4-33-34 on S. bdy. of Tp. heretofore described.
	Thence I run
	N. 0°.02' W. on true line bet. secs. 33 & 34.
	Over almost level ground sloping slightly to the E.
40.00	Set a quartzite stone 15X6X6 ins. 10 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face dug pits 18X18X12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor
60.00	Descend into dry bed of creek course S. 15° E.
69.00	Leave creek bed.
80.00	Set a quartzite stone 14X6X6 ins. 10 ins. in the ground for cor. to secs. 27 & 28-33 & 34 marked 1 notch on S. and 3 notches on E. edges, dug pits 18X18X12 ins. on each section 5½ ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land level and gently rolling.
	Soil gravelly 3" rate
	Drains E.
	Land covered with dense shadscale and sagebrush undergrowth 80.00 chs.
	E. on random line bet. secs. 27 & 34.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect the N. & S. line at the cor of secs. 26-27-34 & 35.
	Thence I run
	W. on true line bet. secs. 27 & 34.
	Over land almost level sloping very gently to the E.
40.00	Set a quartzite stone 12X7X6 ins. 7 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18X18X12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 ft. base 1½ ft. high N. of cor.
65.44	Road bears N. 70° W. & S. 70° E.
80.00	The cor. of secs. 27-28-33 & 34.
	Land gently sloping to the E.
	Soil sandy 3" rate
	Land covered with dense shadscale and greasewood undergrowth 80.00 chs.
	N. 0°.02' W. on true line bet. secs. 27 & 28.
	Over ground almost level sloping slightly to the E.
4.00	Road bears N. 70° W. & S. 70° E.

Subdivisions of T. 12 S. R. 17 W.

40.00	Set a quartzite stone 16x6x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18x18x12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
80.00	Set a quartzite stone 15x6x6 ins. 10 ins. in the ground for cor. to secs. 21-22-27 & 28 marked with 2 notches on the S. & 3 notches on the E. edges dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land almost level sloping gently to the E.
	Soil sandy 3" rate
	Land covered with dense shadscale and sagebrush undergrowth 80.00 chs.
	E. on random line bet. secs. 22 & 27.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect N. & S. line 3 lks. N. of cor. of secs. 22-23-26 & 27.
	Thence I run
	N. 89° 59' W. on true line bet. secs. 22 & 27.
	Overland very slightly rolling down gentle descent.
4.43	Foot of descent bears N. & S. and begin very gentle ascent.
40.01	Set a quartzite stone 16x6x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18x18x12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.02	The cor. of secs. 21-22-27 & 28.
	Land almost level sloping very gently to the E.
	Soil sandy 3" rate
	Land covered with dense sagebrush, shadscale and greasewood undergrowth 80.02 chs.
	At the cor. of secs. 21-22-27 & 28 on Aug. 8-1899 at 10.19 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 wooden plug

Subdivisions of T. 12 S. R. 17 W.

set in the ground 5.00 chs. N. of my station
Aug. 9-1899. at 7: a. m. I turn off the azimuth
of Polaris 1°.36' to the W. and mark the
True Meridian thus determined. by a stake
driven into a wooden plug firmly set in
the ground W. of the mark established
last night. the magnetic bearing of
said true meridian is N. 16°.24' W.
which reduced by the table on page
100 of the Manual gives the mean
magnetic declination 16°.21' E.
I lay off from the true meridian
an angle of 0°.02' to the W. & run
N. 0°.02' W. on true line bet. secs. 21 & 22
Over land almost level sloping slightly
to the E.

40.00 Set a quartzite stone 14 x 6 x 6 ins. 10 ins.
in the ground for 1/4 sec. cor. marked
1/4 on W. face dug pits 18 x 18 x 12 ins. N. &
S. of stone 3 ft. dist. raised a mound of
earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

80.00 Set a quartzite stone 14 x 7 x 6 ins. 10 ins.
in the ground for cor. to secs. 15-16-21
& 22. marked T. 12 S. on N. E. and
R. 17 W. on S. E. faces. with 3 notches
on S. & E. edges, dug pits 18 x 18 x 12 ins
in each sec. 5 1/2 ft. dist. and raised
a mound of earth 4 ft. base 2 ft. high
W. of cor.

Subdivisions of T 12 S. R. 17 W.

Chains	
	Land almost level sloping very gently to the E.
	Soil sand & gravel 3" rate.
	Land covered with dense sage-brush and shadscale undergrowth 80.00 chs.
	Aug. 9-1899.
	S. 89°. 59' E. on random line bet. secs. 15 & 22.
40.00	Set temp 1/4 sec. cor.
79.98	Intersect N. & S. line 3 lks. S. of cor. of secs. 14-15-22 & 23.
	Thence I run
	W. on true line bet. secs. 15 & 22.
	Over land almost level slightly broken sloping gently to the E.
39.99	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
45.85	Begin descent to dry bed of creek
46.00	Dry bed of creek course S. 65° E. 10 lks. wide.
46.85	Leave creek bottom
79.98	The cor. of secs. 15-16-21 & 22.
	Land almost level sloping slightly to the E.
	Soil sandy 3" rate
	Land covered with dense sage-brush shadscale and greasewood undergrowth 79.98 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	N. 0°. 02' W. on true line bet. secs. 15 & 16. Over ground almost level sloping slightly to the E.
18.75	Descend into creek bottom
19.10	Dry bed of Birch or Red Cedar creek course S. 65° E.
19.60	Leave creek bottom
40.00	Set a quartzite stone 18 X 6 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
70.94	Road bears E. & W.
80.00	Set a quartzite stone 14 X 8 X 6 ins. 10 ins. in the ground for cor. of secs. 9-10-15 & 16 marked 4 notches on the S. & 3 notches on the E. edges. dug pits 18 X 18 X 12 ins. in each section 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land almost level sloping gently to the East.
	Soil gravelly 3" rate
	Land covered with dense sagebrush greasewood and shadscale under-growth 80.00 chs.
	Cp. on random line bet. secs. 10 & 15.
40.00	Set tiny 1/4 sec. cor.
80.00	Intersect the N. & S. line at the cor. of secs. 10-11-14 & 15
	Thence I run
	W. on true line bet. secs. 10 & 15.
	Over land almost level and slightly rolling ground sloping gently to the East.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on E. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base

Subdivisions of T. 12 S. R. 17 W.

Chains	1½ ft. high N. of cor. continue over slightly rolling sandy ground
80.00	The cor. of secs. 9-10-15-16. Land level and gently rolling. Soil sandy 3" rate Land covered with dense sagebrush shadscale and greasewood, under-growth 80.00 chs.
	N. 0°. 02' W. on true line bet. secs. 9 & 10 Over gently rolling ground up rather steep ascent.
14.50	Top of ascent on table land bears N. 65° W. & S. 65° E.
26.40	Road bears E. & W.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor. Continue over slightly undulating ground.
80.00	Set a quartzite stone 14 X 8 X 6 ins. 10 ins. in the ground for cor. to secs. 3-4-9 & 10. marked 5 notches on the S. and 3 notches on the E. edges dug pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land slightly undulating Soil sandy 3" rate Land covered with dense shadscale sagebrush & greasewood under-growth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	E. on random line bet. secs. 3 & 10.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect the N. & S. line at the cor. of secs. 2-3-10 & 11.
	Thence I run
	W. on true line bet. secs. 3 & 10.
	Over land almost level sloping slightly to the E.
11.50	Enter white alkali flat bears N. & S.
17.00	Leave white alkali flat bears N. & S.
35.70	Enter white alkali flat bears N. & S.
40.00	Set a lava stone 12 x 8 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dig pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
42.00	Leave white alkali flat bears N. & S.
57.00	Begin steep ascent onto table land bears N. & S.
61.00	Top of table land
80.00	The cor. of secs. 3-4-9 & 10.
	Land almost level and slightly broken.
68.20 / 1.80	Soil sandy 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 68.20 chs.
	Knowing I will not intersect the N. bdy. of Tp. within limits
	Thence I run
	N. 0° 02' W. on true line bet. secs. 3 & 4.
	Over land almost level
25.00	Begin steep descent bears E. & W.
33.00	Foot of steep descent bears E. & W.
40.00	Set a lava stone 15 x 6 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stone 2 ft. base 1 1/2 ft. high W. of corner.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	Continue over ground almost level
94.30	Intersect N. bdy. of Tp. 8.70 chs. N. 89°49' E. of cor. of secs. 33 & 34 T. 11 S. R. 17 W. which is a granite stone 6 x 12 x 12 ins. above ground marked and witnessed as described by the Surveyor General. Set quartzite stone 16 x 7 x 6 ins. 11 ins. in the ground for closing cor. to secs. 3 & 4 marked C. C. on S. face 3 grooves on E. & W. faces raised a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable. Land almost level sloping very gently to the E. Soil sandy 3" rate Land covered with dense sagebrush and shadscale undergrowth 94.30 chs.
	From the cor. of secs. 4-5-32 & 33 on S. bdy. of Tp. heretofore described Thence I run N. 0°03' W. on true line bet. secs. 32 & 33 Over almost level land sloping very gently to the S. with rolling sand hills
4.00 40.00	Leave alkali flat bears N 20°6 & S 20°8 E. Set a quartzite stone 18 x 6 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face dug pits dug pits 18 x 18 x 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
71.60	Begin descent from table land into dry creek bottom.
80.00	Set a quartzite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. to secs 28-29-32 & 33 marked 1 notch on S. & 4 notches on E. edges, raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Land level and rolling Soil sandy 3" rate Land covered with dense under-growth 76.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	E. on random line bet. secs. 28 & 33.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect the N. & S. line at the cor. of secs. 27-28-33 & 34
	Thence I run
	W. on true line bet. secs. 28 & 33.
	Over slightly rolling land sloping to the S.
40.00	Set a quartzite stone 12 X 8 X 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18 X 18 X 12 ins. E. & W. of the stone 3 ft. dist. raised a mound of earth 3/2 ft. base 1 1/2 ft. high N. of cor.
75.70	Begin descent into dry creek bottom bears N. 15° W. & S. 15° E.
79.75	Dry bed of creek 10 lks. wide course S. 15° E.
80.00	The cor. of secs. 28-29-32 & 33.
	Land gently rolling
	Soil sandy 3" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.00 chs.
	N. 0°.03' W. on true line bet. secs. 28 & 29.
	Over gently rolling land
3.10	Dry bed of creek 10 lks. wide course S. 10° E.
8.30	Dry bed of creek same as above course S. 5° W.
11.70	Begin to ascend from creek bottom bears N. 15° E. & S. 15° W.
12.75	Top of ascent from creek bottom bears N. 15° E. & S. 15° W.
37.40	Road bears N. 35° W. & S. 35° E.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft dist raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.

Chains	
72.56	Begin descent into creek bottom bears N. 15° W. & S. 15° E.
73.40	Dry bed of creek 10 lks. wide course S. 15° E.
74.20	Leave creek bottom bears N. 15° W. & S. 15° E.
80.00	Set a quartzite stone 14 x 10 x 8 ins. 10 ins. in the ground for cor. of secs. 20-21-28 & 29 marked 2 notches on the S. & 4 notches on the E. edges. dug pits 18 x 18 x 12 ins. in each section 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land slightly rolling
	Soil sandy 3" rock
	Land covered with dense sage-brush and shadscale undergrowth
	80.00 chs.
	E. on random line bet. secs. 21 & 28.
40.00	Set temp 1/4 sec. cor.
79.88	Intersect the N. & S. line at cor. of secs. 21-22-27 & 28
	Thence I run
	W. on true line bet. secs. 21 & 28.
	Over land almost level sloping very gently to the E.
39.94	Set a quartzite stone 14 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
79.88	The cor. of secs. 20-21-28 & 29.
	Land almost level sloping slightly to the E.
	Soil sandy 3" rock
	Land covered with dense sage-brush shadscale and greasewood undergrowth 79.88 chs.

Chains N. 0°. 03' W. on true line bet. secs. 20 & 21.
Over land very highly broken sloping slightly to the E.

40.00 Set a quartzite stone 14 X 8 X 6 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.

80.00 Set a quartzite stone 16 X 6 X 6 ins. 11 ins. in the ground for cor. to secs. 16-17-20 & 21 marked 3 notches on the S. and 4 notches on the E. edges dug pits 18 X 18 X 12 ins. in each sec. 3 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
Land very gently rolling or broken and level.
Soil 3" rock
Land covered with dense sagebrush and shadscale undergrowth 80.00 chs.

E. on random line bet. secs. 16 & 21

40.00 Set temp 1/4 sec. cor.

80.02 Intersect the N. & S. line at the cor. of secs. 15-16-21 & 22.
Thence I run
W. on true line bet. secs. 16 & 21.
Over almost level ground sloping gently to the E.

40.01 Set a quartzite stone 16 X 6 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

80.02 The cor. of secs. 16-17-20 & 21
Land almost level sloping to the E.
Soil sandy 3" rock
Land covered with dense sage-brush and shadscale undergrowth 80.02 chs.

Subdivisions of T. 12 S R. 17 W.

Chains	N. 0°.03' W. on true line bet. secs. 16 & 17.
	Over slightly broken or rolling ground
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
74.00	Road bears N. 65° E. & S. 65° W.
76.00	Begin descent into creek bottom bears N. 45° W. & S. 45° E.
78.20	Dry bed of creek 10 lks. wide course S. 45° E.
80.00	Set a quartzite stone 12 X 10 X 10 ins. 8 ins. in the ground for cor. to secs. 8-9-16 & 17. in creek bottom marked 4 notches on the S. and 4 notches on the E. edges. dug pits 18 X 18 X 12 ins. in each section 5 1/2 ft dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land rolling or slightly broken
	Soil sand and gravel 3" rate
	Land covered with dense undergrowth 80.00 chs.
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	E. on northern line bet. secs. 9 & 16
40.00	Set temp 1/4 sec. cor.
80.04	Intersect N. & S. line at cor. of secs. 9-10-15 & 16.
	Thence S. run
	W. on true line bet. secs. 9 & 16.
	Over slightly broken land cut with a number of small ravines draining S.
40.02	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
59.00	Road bears N. 75° W. & S. 75° E.
74.15	Road bears N. 60° E. & S. 60° W.
79.00	Enter creek bottom bears N. 45° W. & S. 45° E.

Subdivisions of T. 12 S. R. 17 W.

Chains	
80.04	The cor. of secs. 8-9-16 & 17.
	Land rolling and cut by small hollows.
	Soil sand and gravel 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 80.04 chs.
	N. 0°. 03' W. on true line bet secs. 8 & 9.
	Over slightly broken ground
0.50	Leave creek bottom bears N. 45° W. & S. 45° E.
24.00	S. W. point of table land about 8.00 chs. E. of this point
36.00	Road bears N. 70° E. & S. 70° W.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 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. 4-5-8 & 9 marked 5 notches on the S. and 4 notches on the E. edges dug pits 18 X 18 X 12 ins. in each section 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land slightly broken
	Soil, sand & gravel 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 80.00 chs.

Chains	
	E. on random line bet. secs. 4 & 9
40.00	Set a temp. 1/4 sec. cor.
80.00	Intersect N. & S. line 5 lks. N. of cor. of secs. 3-4-9 & 10
	Thence I run
	N. 89° 58' W. on true line bet. secs. 4 & 9.
	Over gently rolling or very slightly broken land.
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
60.00	Leave table land bears N. & S.
80.00	The cor. of secs. 4-5-8 & 9.
	Land gently rolling or slightly broken.
	Soil gravel and sand 3" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.00 chs.
	Knowing I will not intersect the N. bdy. of the Tp within limits
	Thence I run
	N. 0° 03' W. on true line bet. secs. 4 & 5.
	Over rolling or very slightly broken ground up gradual ascent.
23.80	Top of ascent bears E. & W. & continue over level ground
40.00	Set a quartzite stone 14 X 6 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
94.00	Intersect N. bdy. of Tp. 10.83 chs. N. 89° 49' E. of the cor. of secs. 32 & 33 T. 11 S. R. 17 W. which is a granite stone 7 X 10 X 10 ins. above ground marked and witnessed as described by the Surveyor General.
	Set a quartzite stone 16 X 8 X 6 ins 10 ins. in the ground for closing cor. to secs. 4 & 5 marked C.C. on S. face with 4 grooves on the E. and 2 grooves on the W. faces dug pits 24 X 18 X 12 ins. crosswise on each

Chains	
	line E. & W. 3 ft. and S. of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land slightly rolling
	Soil gravel 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 94.00 chs.
	From the cor. of secs. 5-6-31 & 32 on S. bdy. of the Tp. heretofore described.
	Thence I run
	N. 0°. 03' W. on true line bet. secs. 31 & 32.
	Over almost level land sloping very gently to the S.
40.00	Set a quartzite stone 15 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
	Continue over undulating ground
80.00	Set a quartzite stone 16 X 8 X 6 ins. 11 ins. in the ground for cor. to secs. 29-30-31 & 32 marked 1 notch on the S. and 5 notches on the E. edges; dug pits 18 X 18 X 12 ins. in each section 5 1/2 ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land undulating and slightly broken
	Soil sand and gravel 3" rate
	Land covered with dense sagebrush shadscale and greasewood under-growth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	E. on random line bet. secs. 29 & 32.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. & S. line 5 lks. N. of cor. of secs. 28-29-32 & 33.
	Thence I run
	N. 89° 58' W. on true line bet. secs. 29 & 32.
	Over undulating ground cut by small ravines.
20.25	Leave creek bottom bears N. 28° W. & S. 28° E.
40.00	Set a quartzite stone 14 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 x 18 x 12 ins. E & W. of stone 3 ft. dist raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
68.00	Begin steep ascent bears N. 40° W. & S. 40° E.
72.80	Top of steep ascent.
80.00	The cor. of secs. 29-30-31 & 32.
	Land undulating and slightly cut by small ravines.
	Soil sandy 3' rate.
	Land covered with dense sage-brush and shadscale undergrowth 80.00 chs.
	W. on random line bet. secs. 30 & 31.
40.00	Set temp 1/4 sec. cor.
93.44	Intersect W. bdy. of Tp. at the cor. of secs. 25-30-31 & 36 heretofore described.
	Thence I run
	E. on true line bet. 30 & 31
—	Over land sloping gently to the E. slightly undulating cut by small washes.
28.00	Road Trout Creek & Willow Springs bears N. 15° W. & S. 15° E.
53.44	Set a quartzite stone 14 x 6 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits

Chains	18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
93.44	The cor. of secs. 29-30-31 & 32. Land undulating and cut by small washes. Soil sand and gravel 3" rate Land covered with dense sagebrush greasewood and shadscale under-growth 93.44 chs.
	N. 0°. 03' W. on true line bet. secs. 29 & 30. Over undulating ground
40.00	Set a quartzite stone 16 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
61.50	Road bears N. 40° W. & S. 40° E.
76.75	Begin descent into dry creek bottom bears N. 45° W. & S. 45° E.
80.00	Set a quartzite stone 16 X 8 X 6 ins. 11 ins. in the ground for cor. to secs. 19-20-29 & 30. marked 2 notches on the S. and 5 notches on the E. edges dug pits 18 X 18 X 12 ins. on each sec. 5½ ft. dist. raised a mound of earth 4 ft. base 2 ft. high W. of cor. Land undulating and slightly broken Soil, sand and gravel 3" rate Land covered with dense sage-brush and shadscale undergrowth 80.00 chs.

Subdivision of T. 12 S. R. 17 W.

chains	
	S. 89°.58' E. on random line bet. secs. 20 & 29
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. & S. line 5 lks. S. of cor. of secs. 20-21-28 & 29
	Thence I run
	W. on true line bet. secs. 20 & 29.
	Over slightly undulating ground
4.16	Begin descent into creek bottom bears N. 80° W. & S. 80° E.
9.00	Dry bed of creek drains S. 80° E.
13.20	Leave creek bottom drains S. 80° E.
40.00	Set a quartzite stone 16 X 8 X 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
61.00	Begin to descend into creek bottom
63.40	Dry bed of creek (same as above) 10 lks. wide drains N. 80° E.
78.25	Dry bed of creek (same as above) 10 lks. wide drains S. 80° E.
80.00	The cor. of secs. 19-20-29 & 30
	Land undulating
	Soil, sandy 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 80.00 chs.
	W. on random line bet. secs. 19 & 30
40.00	Set temp. 1/4 sec. cor.
93.44	Intersect W. bdy. of Tp. at the cor. of secs. 19-24-25 & 30 heretofore described
	Thence I run —
	E. on true line bet. secs. 19 & 30
2.19	Dry bed of creek drains N. 80° E. 10 lks. wide
27.00	Dry bed of creek drains S. 80° E.
	Same creek as above
44.47	Road bears N. & S. Trout Creek to Willow Springs
53.44	Set a quartzite stone 14 X 8 X 6 ins.

Subdivisions of T. 12 S. R. 17 W.

Chains	10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
75.54	Dry bed of creek 10 lks. wide drains N. 80° E.
	Same creek as named before
93.44	The cor. of secs. 19-20-29 & 30.
	Land gently rolling.
	Soil sandy 3" rate
	Land covered with dense sagebrush and shadscale underbrush 93.44 chs.
	N. 0°.03' W. on true line bet. secs. 19 & 20
	Over undulating ground and table lands.
1.00	Dry bed of creek 10 lks. wide (same as named above) drains S. 80° E.
3.00	Begin steep ascent onto table land bearing E. & W.
8.40	Top of ascent of table land and continue along the E. edge of the table land.
40.00	Set a quartzite stone 15 X 8 X 6 ins. 10 ins. in the ground marked 1/4 on W. face dug pits 18 X 18 X 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
75.00	Begin gradual descent.
80.00	Set a quartzite stone 17 X 12 X 8 ins. 12 ins. in the ground for cor. of secs. 17-18-19 & 20 marked 3 notches on the S. & 5 notches on the E. edges; dug pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land slightly rolling
	Soil, gravel 3" rate
	Land covered with dense sage brush and shadscale under-growth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	E. on random line bet. secs. 17 & 20.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect the N. & S. line 4 lks N. of cor. of secs. 16-17-20 & 21
	Thence I run
	N. 89°. 58' W. on true line bet. secs. 17 & 20
	Over very slightly rolling ground sloping gently to the E.
40.00	Set a quartzite stone 14 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.00	The cor. of secs. 17-18-19 & 20.
	Land slightly rolling
	Soil sandy 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 80.00 chs.
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	W. on random line bet. secs. 18 & 19.
40.00	Set temp 1/4 sec cor.
93.93	Intersect W. bdy. of Tp. 10 lks. S. of the cor. of secs. 13-18-19 & 24.
	Thence I run
	S. 89°. 56' E. on true line bet. secs. 18 & 19
18.43	Road bears N. 75° W. & S. 75° E.
53.93	Set a quartzite stone 14 X 8 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft. high N. of cor.
63.43	Road bears N. 10° E. & S. 10° W. Trout Creek to Willow Springs.
93.93	The cor. of secs. 17-18-19 & 20.
	Land very gently rolling
	Soil sandy 3" rate

Subdivisions of T. 12 S. R. 17 W.

Chains	
	Land covered with dense sagebrush and shadscale undergrowth 93.93 chs.
	N. 0°. 03' W. on true line bet. secs. 17 & 18.
	Over table land cut with small ravines draining E.
40.00	Set a quartzite stone 14 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins. N. & S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
63.32	Road bears N. 45° E. & S. 45° W.
80.00	Set a quartzite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. to secs. 7-8-17 & 18 marked 4 notches on the S. & 5 notches on the E. edges dug pits 18 x 18 x 12 ins. in each section 5 1/2 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land undulating & cut by small ravines.
	Soil sandy 3" rate
	Land covered with dense sagebrush and greasewood undergrowth 80.00 chs.
	S. 89°. 58' E. on random line bet. secs. 8 & 17.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. & S. line 5 lks. S. of cor. of secs. 8-9-16 & 17.
	Thence I run
	W. on true line bet. secs. 8 & 17.
	From creek bottom up gradual ascent of table land.
3.00	Dry bed of creek drains S. E.

Subdivision of T. 12 S. R. 17 W.

Chains	
35.10	Leave creek bottom bears N. 40° W. & S. 40° E.
40.00	Set a quartzite stone 14 x 8 x 6 ins. 10 ins. in the ground marked 1/4 on the N. face dug pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
59.25	Top of gradual ascent and begin gentle descent into so called Natural Reservoir bears N. & S.
65.00	Leave dense undergrowth bears N. & S. and enter bare white flat on bottom of reservoir near the S. end.
74.00	Leave white flat bears N. 35° W. & S. 35° E. enter dense undergrowth.
80.00	The cor. of secs. 7-8-17 & 18.
1/9	Land very gently rolling and level Soil 3" & 4" Sale Land covered with dense sage-brush and shadscale undergrowth 71.00 chs.
	N. 89° 56' W. on random line bet secs 7 & 18.
40.00	Set temp. 1/4 sec. cor.
93.49	I intersect W. bdy. of Tp. 10 lks N. of cor. of sec. 7-12-13 & 18 heretofore described Thence I run E. on true line bet. secs. 7 & 18 Over gently rolling land sloping gently to the E.
32.50	" " descent bears N. & S.
49.00	Begin gentle descent bears N. & S.
53.49	Set a quartzite stone 14 x 7 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits

Subdivisions of T. 12 S. R. 17 W.

Chains	
	18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
76.74	Road bears N. 50° E. & S. 50° W.
80.21	Road Trout Creek to Willow Springs bears N. 15° E. & S. 15° W.
93.49	The cor. of secs. 7-8-17 & 18. Land gently rolling or undulating Soil gravel 3" & 4" rate Land covered with dense sagebrush and shadscale undergrowth 93.49 chs.
	N 0°03' W. on true line bet. secs. 7 & 8 Over ground sloping gently to the S. E.
10.95	Road bears N. 50° E. & S. 50° W.
28.00	West edge of white flat in Natural Reservoir bears N. 15° E. & S. 15° E
40.00	Set a granite stone 12 x 12 x 10 ins 8 ins. in the ground for ¼ sec. cor. marked ¼ on W. face dug pits 18 x 18 x 12 ins. N. & S. of stone 3 ft. dist. raised a mound of earth 3½ ft. base 1½ ft. high W. of cor.
47.45	Road bears N. 15° E. & S. 15° W. Trout Creek to Willow Springs.
80.00	Set a granite stone 20 x 8 x 8 ins. 15 ins. in the ground for cor. of secs. 5-6-7 & 8. marked 5 notches on the S. & 5 notches on the E. edges, dug pits 18 x 18 x 12 ins. in each sec. 5½ ft dist. raised a mound of earth 4 ft. base & 2 ft. high W. of cor. Land sloping slightly to S. E. Soil gravel 3' rate Land covered with dense sagebrush and shadscale undergrowth 80.00 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	
	E. on random line bet. secs. 5 & 8.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N. & S. line 6 lks. S. of cor. of secs. 4-5-8 & 9.
	Thence I. run
	S. 89° 57' W. on true line bet. secs. 5 & 8.
	Over ground sloping W. slightly cut by small hollows or ravines draining S. 45° W.
32.00	Enter dry creek bottom bears N. 20° W. & S. 20° E.
32.70	Dry bed of creek 10 lks. wide drains S. 20° E.
33.70	Leave creek bottom bears N. 20° W. & S. 20° E.
40.02	Set a quartzite stone 14 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
	Continue W. up gentle ascent of table land
57.00	Top of ascent bears N. 20° W. & S. 20° E. and begin very gentle descent
71.33	Road bears N. 15° E. & S. 15° W. Trout Creek to Willow Springs
80.04	The cor. of secs. 5-6-7 & 8.
	Land gently undulating sloping gently to the S. E.
	Soil 3" rate gravel
	Land covered with dense sagebrush and shadscale undergrowth 80.04 chs.
	W. on random line bet. secs. 6 & 7.
40.00	Set temp. 1/4 sec. cor.
93.49	Intersect the W. bdy. of Tp. at the cor. of secs. 1-6-7 & 12

Subdivisions of T. 12 S. R. 17 W.

Chains	Thence I run
	E. on true line between secs. 6 & 7
	Over land sloping to the E. undulating and slightly cut by small ravines, draining E.
37.93	Road bears N. 60° W. & S. 60° E.
53.49	Set a quartzite stone 14 x 6 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
68.82	Begin steep descent bears N. 20° W. & S. 20° E.
82.49	Foot of steep descent bears N. 20° W. & S. 20° E.
93.49	The cor. of secs. 5-6-7 & 8.
	Land undulating and slightly broken
	Soil stony 3" rate
	Land covered with dense sagebrush and shadscale undergrowth 93.49 chs.
	Knowing I will not close on the N. bdy. within limits I run
	N. 0°.03' W. on true line bet. secs. 5 & 6
	Over land slightly broken or gently rolling.
29.00	Begin steep ascent bears N. 45° W. & S. 45° E.
38.25	Top of steep ascent bears N. 45° W. & S. 45° E.
40.10	Set a quartzite stone 14 x 6 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
60.00	Begin steep descent into creek bottom bears N. 60° W. & S. 60° E.
63.42	Foot of steep descent bears N. 60° W. & S. 60° E.

Subdivisions of T. 12 S. R. 17 W.

Chains	
69.34	Birch or Red Cedar Creek 15 lks. wide pure water drains S. 60° E. These creeks are as a rule high in the Spring and early Summer and go entirely dry or nearly so in Autumn except near the mountain)
70.00	Begin steep ascent bears N. 68° W. & S. 68° E.
75.00	Top of steep ascent bears N. 70° W. & S. 70° E.
89.32	Road bears N. 70° W. & S. 70° E.
93.77	Intersect N. bdy. of Tp. 13.30 chs. N. 89°.49' E. of the cor. of sec. 31 & 32 T. 11 S. R. 17 W. which is a granite stone 6 X 10 X 8 ins. above ground marked and witnessed as described by the Surveyor General. Set a granite stone 18 X 14 X 6 ins. 12 ins. in the ground for closing cor. of sec. 5 & 6 marked C. C. on S. face 1 groove on W. & grooves on E. faces dug pits 24 X 18 X 12 ins. crosswise on bearing line E. & W. 3 ft. & S. of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high S. of cor. land somewhat broken and cut by hollows. Soil gravel 3' deep land covered with dense sagebrush and shadscale undergrowth 93.77 chs.

Subdivisions of T. 12 S. R. 17 W.

Chains	General Description
	This Tp. in the S. E. portion is level or very slightly broken, the soil being of a fairly good quality The North West portion consists of slightly undulating bench or table land. In the Western part of section 8 is situated a Natural Reservoir covering about 160 acres which could be used for storage of water by turning the waters of Birch Creek into it The Tp. is fairly well watered in the Western part during Spring and early Summer. Later in the year the streams mostly cease to flow There are no settlers in this Tp. Could find no trace of A. V. Taylor, E. T. Taylor - W. H. Stout and Geo. R. Hecker, applicants for survey, nor any of their improvements. Found no indications of mineral in any part of the Tp. Alonzo J. Stookey. U. S. Sup. Surveyor Aug. 12- 1899.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ..... United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ..... showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

For final affidavits to book M. Sp. 8 S. R. 20 W.

FINAL OATH OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

For final affidavits to book M. Sp. 8 S. R. 20 W.

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

SEAL

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BOOK A-296

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

Informal affidavits see book No. 65 Pg. 11

.....
United States Deputy

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 November 30 1903

The foregoing field notes of the survey of the Subdivisional line of Township 12 South Range 17 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stookey
under his contract No. 216, dated October 29, 1897, hav
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

Edward H. Anderson
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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Filed May 31. 1907. EBH

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BOOK A-296

FIELD NOTES

OF THE SURVEY OF THE

East Boundary

of

Township 11 S. Range 19 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced Aug 12. 1899, 189

Survey completed Aug 12. 1899, 189

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high 1.00 10'

dry 10.00'

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward — Chainman
Richard Orr — "
George S. Stookey — Moundman
Roger Millward — Axeman
Roger Millward — Flagman

For preliminary affidavits & cel. work A. Tp. 7 S. R. 1 W.

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BOOK A-296

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Meanders Page

BOOK A-296

Pages 101-104 are between 110 & 111

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

East Boundary T. 11. South Range 19 West.

Chains	
	Survey commenced Aug 19th 1899 and executed with a W. & L. E. Gurley Light Mountain Transit for description of which see page 1. Book "D"
	From the Standard cor. to Tp 10 S. Rs 18 & 19 W. in approx. Lat. 39°54' N. Long. 113°55' W. which is a granite stone 12 x 10 x 10 ins above ground marked and witnessed as described by the Surveyor General
	Thence Drew.
	East along said Standard up steep ascent along S. face of mountain
9.90	Top of ridge bears N. 35° E. & S. 30° W. and descend slightly.
10.50	Set a quartzite 15 x 10 x 10 ins. 10 ins in the ground for closing cor for Tp 11 S. Rs 18 & 19 W. marked C.C. 11 S on S 18 W. on E. 19 W. on W. faces with 6 grooves on S. E. and W. faces; raised pr. mound of stone 2 ft base 1½ ft high S. of cor.
	Pits impracticable.
	From said closing cor. which is about 600 ft above the bench land one mile W.
	Thence Drew
	South on true line bet. secs 19 & 30. down rather steep descent.
14.00	Bottom of hollow drains S. 65° W. and begin ascent.
17.00	Top of ascent bears N. 70° E. & S. 70° W. and descend.
19.50	Bottom of hollow drains W.
23.30	Top of ridge bears E. & W.
30.20	Bottom of hollow drains N. 75° W.
34.60	Top of ridge bears S. 75° E. & N. 75° W. and begin gentle descent.

East Boundary T11S. R19 W.

Chains	
40.00	Set a granite stone 14 x 8 x 8 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
43.85	Stream of pure water 4 lks wide skirted with aspen timber, drains W. and begin gentle ascent.
51.50	Top of ascent bears E. & W. and begin gentle descent.
55.50	Small hollow, drains W. and begin steep ascent.
58.00	Top of ridge bears E. & W. and begin gentle descent.
63.50	Enter scattering mahogany timber bears E. & W.
66.50	Bottom of hollow, drains W.
69.50	Top of rocky ridge, bears E. & W. and continue over undulating ground
75.00	Begin steep descent into hollow
75.40	Enter aspen and pine timber.
76.45	Bottom of hollow, drains N. 40° W. stream of pure water 3 lks wide, and begin steep ascent.
77.30	Dense timber, bears E. & W.
80.00	Set a granite stone 18 x 12 x 6 ins 12 ins. in the ground for cor. of secs 1, 6, 7 & 12, marked 1 notch on N. and 5 notches on S. edges, raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.

Land, mountainous and broken
Soil, rate, stony.
Timber scattering mahogany, with aspen and pine skirting the streams
Mountainous land 80.00 chs.

For observations on Polaris see notes on S. bdy of Tp.

East Boundary of T. 11 S. R. 17 W.

Chains	At this point I discontinue further survey on this line on account of impassible mountains and the land being wholly non-agricultural in its character.	

Aug 13. 1894

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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 V. Tp. 8 S. R. 20 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 V. Tp. 8 S. R. 20 W.

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed 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 ..... United States Surveyor General for ....., bearing date of the ..... 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, December 30, 1903, 189

The foregoing field notes of the survey of The East Boundary of Township 11 South Range 19 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stanley under his contract No. 216, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward D. Anderson

United States Surveyor General.

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

United States Surveyor General.

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Filed May 31. 1907. EBL

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R.

BOOK A-296

FIELD NOTES

OF THE SURVEY OF THE

South and West Boundaries

of

Township 11 South Range 19 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J. Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced Aug 13, 1899

Survey completed Aug 14, 1899

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South high 3.77-60

West " 5.79-60

Clay 12.53

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward	Chainman
Richard Orr	"
George S Stookey	Moundman
Roger Millward	Axeman
Roger Millward	Flagman

In preliminary affidavits see book A. Tp 7 S R 6 W.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will 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

South Boundary T11 S R 19 W.

Chains	Survey commenced Aug 13. 1899. and executed with a W & S. E. Gurley Light Mountain transit for description of which see page 1 Book "A"
	On act. of the E. bdy. being discontinued at the cor of secs. 1, 6, 7 & 12, I begin at the cor. of secs. 2, 3, 34 & 35 on the S. bdy. of the Tp. established (by myself and heretofore described) by a line run from the cor. of secs. 1, 6, 7 & 12 W. 1 mile, thence S 0°01' E. 3 miles thence W. 1 mile, thence S 0°01' E 2 miles. Thence I run
	West on true line along S. bdy bet. secs. 3 & 34. over mountainous land through hine, aspen and mahogany timber along N.E. face of ridge.
14.10	Top of ridge, bears N 50° W. & S. 50° E.
16.00	Leave timber bears N and S. and begin steep descent.
30.00	Foot of mountain and steep descent Continue down gentle descent through dense sage brush undergrowth.
40.00	Set a granite stone 18 x 12 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, raised a mound of stone 2 ft base 1½ ft high N. of cor.
	Pits impracticable
43.28	Road to Queen of Shebu mine bears N 50° W & S 50° E.
42.70	Enter Aspen timber bears N 30° W. & S 30° E.
44.90	Fifteen Mile Creek fine stream 10 lks wide, course N. 30° W. and begin ascent.
45.60	Leave aspen timber bears N 50° W & S. 50° E.
52.00	Top of ascent, or ridge bears N 50° W & S 50° E. and descend through dense sagebrush undergrowth.
56.08	Road, bears N and S.
80.00	Set a quartzite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 3, 4, 33 & 34 marked with 3 notches on E & W.

South Boundary T11 S R19W.

Chains	
	edge, raised a mound of stone 2 ft base 1½ ft. high N. of cor.
	Pits impracticable.
	Land mountainous and rolling
	Soil stony, 1" 2" & 3" rate.
	Timber, Pine, mahogany and aspen on eastern part of mile
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	At a point 1.00 ch. S. of the cor. last described I observe Polaris at eastern elongation Aug 13" 1899. at 9h 57m p.m. l.m.t. and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N. of my station Aug 14. 1899. at 7.00 a.m. I lay off the azimuth of Polaris 1°37' to the N. of the pt. established last night and mark the True Meridian thus established by driving a tack into a wooden plug firmly set in the ground
	The magnetic bearing of said true meridian is N. 14° 16' W. which reduced by the table on page 100 of the Manual gives the mean magnetic declination 14° 10' E.
	From the cor. of secs. 3. 4. 33 and 34 which is 1.00 ch. N. of my station I turn off an angle of 90° to the W.
	Thence I run
	W. on true line bet. secs. 4 & 33.
	Over gently rolling ground, down gentle descent, through dense sagebrush undergrowth.
5.60	Stream 3 lks wide, course N. 50° W.
6.87	Road, bears N. 45° W. and S 45° E.
14.00	Road, " " " "
30.00	Begin steep descent into ravine

South Boundary of T. 11 S. R. 19 W.

	bears N. 45° W. and S. 45° E.
31.30	Bottom of ravine. drains N. 45° W. and ascend.
36.00	Top of ascent bears N. 45° W. and S. 45° E.
40.00	Set a sandstone 18 X 12 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
43.60	Bottom of ravine drains N. 45° W.
71.25	Bottom of ravine drains N. 45° W.
80.00	Set a quartzite stone 18 X 12 X 0 ins 12 ins in the ground for cor. of secs 4, 5, 32 and 33 marked 4 notches on the E. and 2 notches on the W. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable. Land rolling Soil 1" to 2" rate, sand and gravel No timber Land covered with dense under growth 80.00 chs.
	Non true line bet. secs 5 & 32. Over rolling land through dense sagebrush & undergrowth across Bench.
40.00	Set a sandstone 18 X 6 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
50.00	Top of bluff bears N. & S. begin steep descent into Dry Creek Hollow
51.50	Foot of steep descent
53.00	Road bears N. & S.
53.50	Dry bed of creek drains N. and begin gentle ascent.
55.50	Enter foot hills bear N. & S.

South Boundary of T. 11 S. R. 19 W.

Chains	
80.00	Set a limestone 18x10x8 ins. 12 ins in the ground for cor. of secs 5.6.31 & 32. marked with 5 notches on the E and one notch on the W edge; raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	Land rolling
	Soil 2" rate gravelly
	No timber
	Land covered with dense sage brush undergrowth 80.00 chs.
	W. on true line bet. secs. 6 & 31.
	Over broken mountainous land up gentle ascent through dense sagebrush undergrowth.
4.50	Ravine drains N. 45° E. and begin more steep ascent.
16.00	Enter scattering pinion pine, cedar and mahogany timber bears N. 45° E. and S. 45° W.
28.00	Top of ridge bears N. 45° E and S. 45° W.
35.25	Bottom of hollow, drains N. 45° E.
	Ascent becomes more steep.
40.00	Set a limestone 15x6x6 ins. 10 ins in the ground for ¼ sec. cor. marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
	A pinion pine 8 ins. diameter bears N. 85° W. 57 lks dist. marked ¼ S 31 B.T.
	A pinion pine 12" in diam. bears N. 55° W. 83 lks dist. marked ¼ S 31 B.T.
70.00	Top of ridge bears N. 45° E and S. 45° W.
	And continue through dense mahogany timber and undergrowth.
76.00	Leave brush and timber bears W. & S.

South Boundary of T11S R19W.

77.60 Allowing for convergency of meridians.
Set a limestone 18x10x10 ins. 12 ins. in the ground for cor. to Tps. 11 & 12 S. Rs. 19 & 20 W. marked 11 S. on N.E. 19 W. on S.E. 12 S. on S.W. and 20 W. on N.W. faces, with 6 notches on each edge, raised a mound of stone 2 ft base 1½ ft. high S. of cor.
Pits impracticable.
Land mountainous.
Soil stony. 3rate.
Timber, cedar, junion pine and mahogany.
Mountainous land 77.60 chs.

Aug 14. 1899.

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PAGE

West Boundary of T. 11 S. R. 19 W.

Chains	
	From the cor. of Tps. 11 and 12 S. R. 19 and 20 W. as established by myself heretofore described.
	Thence run
	N. on true line bet. secs. 31 & 36 along E. face of mountain.
3.50	Enter cedar pine and mahogany timber bears E. & W.
40.00	Set a limestone 15 x 10 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
46.00	Top of main ridge or backbone 600 ft. high bears N. 20° E. and S. 20° W. and descend along W. face of mountain.
57.00	Bottom of swale, drains W. and gentle ascent.
72.00	Top of ascent, ridge bears N. 70° W. and S. 70° E. and begin rather abrupt descent.
80.00	Set a limestone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked 1 notch on S. and 5 notches on N. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	A pine 8 ins. in diam. bears N. 85° E. 35 lks dist. marked T. 11 S. R. 19 W. S. 30. T. B. T.
	A pine 12" in diam. bears S. 3° W. 8 lks dist. marked T. 11 S. R. 20 W. S. 36 T. B. T.
	No other trees within limits.
	Land mountainous.
	Soil stony; 3rd rate. Timber, pine cedar and mahogany.
	Mountainous land 80.00 chs.

West Boundary of T11S R19 W.

Chains	
	North on true line bet. secs 25 and 30
	Over mountainous land, down rather steep descent.
24.00	Bottom of descent, ravine or hollow drains N. 60° W. and ascends.
32.50	Top of ridge bears N 45° W and S 45° E. and descend
37.00	Leave cedar timber, bears E & W.
40.00	Set a limestone 15X8X8 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1 1/2 ft high W. of cor.
	Pits impracticable
50.00	Enter cedar and pine timber bears E. & W.
74.00	Foot of mountain bears E & W. descent becomes very gentle.
80.00	Set a limestone 15X8X6 ins 10 ins in the ground for cor of secs 19, 24, 25 and 30 marked with 2 notches on the S. and 4 notches on the N. edges; raised a mound of stone 2 ft base 1 1/2 ft high W. of cor.
	Pits impracticable
	A pine 12" in diameter bears S. 43° E. 20 lks dist. marked T11S R19 W S 30 B.T.
	A pine 8 ins. in diam. bears N 2° W. 9 lks dist. marked T11S R20 W S 24 B.T.
	No other trees within limits
	Land mountainous
	Soil 3" rate, stony
	Timber, cedar and pine
	Mountainous land 80.00 chs.

West Boundary T11 S R19 W.

Chains	North on true line bet. secs 19 & 24. Over gently rolling land, down gentle descent through scattering pine and cedar timber.
24.75	Round rocky knoll 40 ft high bears E. about 7.00 chs.
33.00	Road, bears N 70° E. and S. 70° W.
40.00	Set a quartzite stone 15 x 6 x 6 ins. 10 ins in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable. A cedar 12" diameter bears S 1° W. 60 lks dist marked 1/4 S 24 B.T. A cedar 8 ins. in diameter bears N 45° E. 1.15 chs dist marked 1/4 S 19 B.T.
57.75	Leave cedar timber, bears E & W. and enter dense sagebrush undergrowth
68.61	Road, bears N 45° W. & S 45° E.
70.10	Spring Creek a nice stream 10 lks wide, course N 38° W.
72.50	Top of ascent from creek, bears N 38 W. and S. 38° E.
80.00	Set a quartzite stone 18 x 6 x 6 ins. 12 ins in the ground for 1 cor of secs 13, 18, 19 and 24, marked with 3 notches on N & S. edge, raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable. Land very gently rolling. Soil 2" rate gravelly. Timber scattering cedar and pine. Heavily timbered land on land covered with dense sagebrush undergrowth 80.00 chs.

West Boundary of T 11 S R 19 W.

Chains. From the cor. of secs 13, 18, 19 and 24 the head of Spring Creek bears S 36° E. about 60 chs dist. Nose corral bears NE from spring about 4.00 chs. dist.

North on true line bet secs. 13 & 18
Over almost level land through dense sagebrush undergrowth

5.62 Road bears E & W.

9.15 Road bears S 30° E. and N. 30° W.

40.00 Set a quartzite stone 15 X 8 X 6 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18 X 18 X 12 ins. N & S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft high W of cor.

41.00 Road bears E and W.

80.00 Set a quartzite stone 18 X 8 X 6 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13 & 18. marked 4 notches on S and 2 notches on W edges; dug pits 18 X 18 X 12 ins. in each sec. 5 1/2 ft dist. raised a mound of earth 4 ft base 2 ft high W of cor.

Land almost level
Soil 2" rate, clay and gravel
No timber
Land covered with dense sagebrush undergrowth 80.00 chs.

North on true line bet secs. 7 & 12.
Over land almost level, through dense sage brush undergrowth.

40.00 Set a quartzite stone 15 X 8 X 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18 X 18 X 12 ins N and S. of stone 3 ft dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft high W. of cor.

West Boundary of T. 11 S. R. 19 W.

80.00 Set a quartzite stone 18×8×7 ins. 12 ins. in the ground for cor. of secs. 1. 6. 7 & 12. marked with 5 notches on the S. and 1 notch on E. edges dug pits 18×18×12 ins. in each section 5½ ft. dist. and raised a mound of earth 4 ft base 2 ft high W. of cor.
Land level
Soil, clay, slate
No timber
Land covered with dense sagebrush undergrowth 80.00 chs.

North on true line bet. secs. 1 & 6.
Over level land, through dense sage brush undergrowth.
19.50 Road bears S. 45° E. & N. 45° W.
40.00 Set a quartzite stone 15×7×6 ins. 10 ins. in the ground for 1/4 sec. cor. marked ¼ on W. face; dug pits 18×18×12 ins N. and S. of stone 3 ft dist. and raised a mound of earth 3½ ft. base 1½ ft high W. of cor.
79.60 Deflected W. bdy. of Tp. 13.53 chs. E. of the standard cor. to T. 10 S. Rs. 19 & 20 W. which is a flint stone 8×10×12 ins above ground marked and witnessed as described by the Surveyor General.
Set a quartzite stone 18×8×6 ins 12 ins. in the ground for closing cor. of T. 11 S. Rs. 19 & 20 W. marked C.C. 11 S. on S. 19 W. on E. and 20 W. on W. faces; with 6 grooves on S. E & W. faces; dug pits 30×24×12 ins crosswise on each line. E & W. 4 ft dist. and S. of stone 8 ft dist. and raised a mound of earth

West Boundary of T. 11 S. R. 19 W.

5 ft base 9½ ft high S. of cor.
Land level
Soil. sand and clay. 2' rate
No timber
Land covered with dense sagebush
undergrowth 79.60 chs.

Aug 14. 1899.

Polaris Observation

At the cor. of secs. 13, 18, 19 and 24 on the N. bdy. this Tp. on Aug 14. 1899 I observed Polaris at eastern elongation at 9h 54m P.M. L.M.T. in accordance with instructions in the Manual and mark the line thus determined by a tack driven into a wooden plug set in the ground 5.00 chs. N. of my station.

At 7.00 a.m. I turn off the azimuth of Polaris 1°37' to the N. and mark the true meridian thus determined by driving a tack into a wooden plug firmly set in the ground west of the grade established last night; the magnetic bearing of said true meridian is N 14°18' W. which reduced by the table on page 100 of the Manual gives the mean magnetic declination 14°12' E.

Boundaries T. 11 S. R. 19 W.

Latitudes, departures and closing errors.

Line designated	True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
S. bdy T. 11 S. R. 19 W.	E—	317.60			317.60	
" " Sec. 23.	E—	80.00			80.00	
" " " 1	E—	80.00			80.00	
E. " " 1	North	80.00	80.00			
" " 11, 14, 23	N 0°01' W	240.00	240.00			.07
" " 27 & 34	N 0°01' W	160.00	160.00			.05
N. Bdy T. 11 S. R. 19 W.	W—	477.97				477.97
N. " " " "	S—	477.60		477.60		
Convergency						0.61
Totals			480.00	477.60	477.60	478.70
			477.60			477.60
Error in lat			0.40	Error in Dep.		1.10

For General Description see notes of subdivisions.

Aug 14. 1899.

Alonzo J. Stookey
U.S. Dep. Surveyor.

Volume
#
R0296

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ..... showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Informal affidavits see book V. Tp. 85 R. 20 W.

FINAL OATH OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Informal affidavits see book V. Tp. 85 R. 20 W.

Subscribed 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 ..... United States Surveyor General for ....., bearing date of the ..... 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.

Infinal off. [illegible]

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, November 30, 1903

The foregoing field notes of the survey of The South and West Boundaries of Township 11 South Range 19 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stockey under his contract No. 216, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Cunningham

United States Surveyor General.

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

.....

United States Surveyor General.

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Filed May 31. 1907. EBL

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4—679.

Exp. J.L.B.

BOOK A-296

H.F.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 11 S Range 19 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J. St..., United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced Aug 13 1899, 189

Survey completed Aug 20 1899, 189

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high 52-17-78

low 48-56

clay 52.79

52-66-34

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward — Chainman
Richard Orr — "
George S. Stookey — Moundman
Roger Millward — Axeman
Roger Millward — Flagman

For preliminary affidavits see book B.L. of S.R.&W.

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BOOK A-296

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

.....

Subdivisions of T. 11. S. R. 19. W.

Chains	
	On account of the survey of the E. boundary of this Tp. being discontinued at the cor. of secs 1, 6, 7 & 12. because of impassable mountains and non agricultural land therefore I proceed as follows
	Survey commenced Aug 13, 1899 with the instruments described in book. a.
	From the cor. of secs 1, 6, 7 & 12 on E. bdy of township heretofore described
	Thence Drew
	West on true line bet. secs 1 & 12 up gentle ascent along N face of hill.
3.00	Top of ridge bears N 60° W & S 60° E.
8.10	Enter aspen timber bears N 60° W and S. 60° E.
10.80	Bottom of hollow. drains N 60° W.
12.15	Leave timber. bears N 60° W & S 60° E.
18.00	Enter scattering mahogany timber bears N.W.S.
18.50	Top of ridge, bears N 80° W & S 80° E.
21.00	Begin descent over huge granite boulders ledges and pinnicles. leave timber
38.68	Base of perpendicular granite pinnicle 75 ft. high.
40.00	This point falls on a granite ledge sloping from W. face of pinnicle.
	Dent a cross (x) at exact cor. point for 1/4 sec. cor. mark 1/4 on the N. side and raise a mound of stone 2 ft base 1½ ft high N of cor.
	Pits impracticable.
	Continue descent over huge granite boulders and ledges and small sage brush swales.
53.50	Ravine drains N 60° W. and begin ascent.
62.20	Top of ascent, begin descent.
72.40	Bottom of hollow, drains N 60° W. and ascend.
77.85	Top of ascent, begin descent.
80.00	Set a sandstone 18 x 6 x 6 ins. 12 ins.

here

Subdivisions of T. 11 S. R. 19 W.

Chains	
	in the ground for cor. of secs 1.2, 11-12, marked 1 notch on E. and 5 notches on S. edges, raised a mound of stone 2 ft base 1½ ft high N. West of cor. Pits impracticable.
	Land broken and mountainous. Soil 2" to 8" rate, stony
	Timber scattering mahogany, and ashes in hollows.
	Mountainous land 80.00 chs.
	From cor. of secs. 1.2, 11-12
	Thence Run.
	S 00° 01' E. on true line bet secs 11 & 12
	Over broken ground through dense sage brush undergrowth up gentle ascent.
5.00	Top of ascent bears E & W.
17.60	Begin descent, bears E. & W. enter scattering mahogany timber bears E. & W.
20.34	Bottom of hollow, drains N 75° W. and begin ascent.
23.20	Leave mahogany timber, bears E. & W.
34.75	East end of a huge granite boulder, ascent becomes very steep.
38.65	Top of rocky ridge, bears E. & W. This point is about 600 ft above the bench land 1 mile W.
40.00	Set a granite stone 18 x 8 x 8 ins 12 ins in the ground for ¼ sec. cor. marked ¼ on W. face: raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
49.00	Ravine, drains S 60° W
51.00	Begin descent, bears E. & W. among huge granite boulders, domes and pinnacles
63.00	Bottom of swale, drains S 60° W.
66.20	Enter mahogany timber bears E. & W.
69.25	Top of ridge bears S 60° W. and N 60° E.

Subdivisions of T. 11. S R 19 W.

Chains	
	Granite stone 10 ft high 3 ft W. of line and begin descent.
70.00	Leave mahogany timber, bears E. W.
78.40	Granite dome 18 ft. high 3 ft. E. of line
79.50	Enter cherry aspen & willows bear E. W.
80.00	Set a granite stone 18 x 8 x 8 ins 12 ins in the ground for cor to secs. 11, 12, 13 & 14 marked 1 notch on E. edge 4 notches on S. edge, raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
	An aspen 10 ins in diameter bears N 45° E. 25 lks dist. marked T 11 S R 19 W S 12 B. T.
	An aspen 8 ins in diameter bears N 45° W. 10 lks dist marked T 11 S R 19 W S. 11. B. T.
	No other trees within limits.
	Land mountainous
	Timber, scattering mahogany, and ashes on hillsides.
	Soil 3" rate, stony.
	Mountainous land 80 chs.
	From cor. of secs 11, 12, 13 & 14
	Thence I run
	S. 0° 01' E. bet secs 13 & 14.
.10	Stream of pure water 4 lks wide drains N 45° W.
1.75	Leave aspen timber bears E & W. and begin very steep ascent over very rocky ground.
12.50	Top of ridge 350 ft above last named sec cor. bears E & W. and begin steep descent.
25.23	Bottom of hollow drains S 65° W and ascend.
26.80	Top of ridge bears E. & W.
30.50	Bottom of hollow drains N 65° W.

Subdivisions of T. 11 S. R. 19 W.

Chains	
35.00	Top of ridge bears N 60° W & S 60° E. and begin steep descent.
40.00	Set a granite stone 15 x 7 x 6 ins 10 ins. in the ground, on W. face of mountain for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft base 1½ ft high W. of cor.
	An ashen tree 10 ins in diam. bears S 65° W. 35 lks dist marked 1/4 S. 14 B.T.
	An ashen 10 ins. in diameter bears S 85° E. 23 lks dist. marked 1/4 S 13 B.T.
40.24	Stream of pure water 5 lks wide drains W.
	Enter ashen timber bear E. & W.
40.75	Leave " " " "
41.65	Top of ridge bears S 65° W. & N 65° E. and descend
47.25	Dry bed of creek drains S 60° W.
53.00	" " " " " N 40° W.
54.80	Begin very steep rocky ascent
64.00	Top of main ridge 260 ft above last named 1/4 sec. cor. bears N. 45° W.
71.30	Begin descent into hollow
72.60	Bottom of hollow drains N 45° W.
75.75	Top of ridge bears N 40° W. & S 40° E.
80.00	Set a granite stone 30 x 30 x 20 ins 20 ins in the ground for cor of secs 13. 14. 23 & 24 marked 1 notch on E. and 3 notches on S. edges, located among huge granite boulders and small ashen trees. raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	Land mountainous
	Soil. 4" rate, stony.
	Timber scattering mahogany and ashen along streams.
	Mountainous land. 80. 00 chs.

Subdivisions of T. 11 S R 19 W.

Chains	
	From cor. of secs 13.14.23 & 24
	Thence down
	S 0°01' E. bet. secs 23 & 24
	Over rugged mountain land down gentle descent
4.00	Bottom of descent, enter aspen timber, bears E & W.
9.10	Creek of pure water 7 lks wide flows W.
10.25	Begin steep ascent through timber and underbrush.
16.00	Top of ridge bears N 65° W & S. 65° E. and begin gentle descent.
22.00	Bottom of hollow, drains N 70° W.
28.00	Top of ridge bears N. 70° W & S 70° E.
28.50	Leave timber bears E & W. and begin gradual descent.
36.50	Enter timber bears E & W.
38.60	Bottom of hollow, drains N 70° W.
40.00	Set a granite stone 15X8X6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	A pine 7 ins in diam. bears N 45° W. 41 lks. dist. marked 1/4 S 23. B.T.
	A pine 6 ins in diam. bears N. 5° W. 24 lks dist. marked 1/4 S 23 B.T.
40.50	Top of ridge bears N 70° W & S 70° E. and begin descent.
45.75	Creek of pure water 7 lks wide flows N 70° W.
47.42	Leave timber, bears N 70° W & S 70° E.
48.00	Top of ridge bears N 70° W & S. 70° E.
49.50	Bottom of hollow drains N 65° W. & begin steep ascent
49.70	Enter timber bears E & W.
79.30	Top of ascent of granite ledge or cliff

Subdivisions of T. 11 S. R. 19 W.

Chains 250 ft above the last named 1/4 sec. cor. and begin abrupt descent.

80.00 Stationary granite stone 30 X 12 X 6 ins. above ground for cor. of secs. 23, 24, 25 & 26 marked 1 notch on E. edge and 2 notches on S. edges raised a mound of stone 2 ft base 1½ ft high W. of cor.

Pits impracticable.

Apple tree 8 ins in diam. bears N 15° E. 10 lks. dist marked T. 11 S. R. 19 W. S. 24 B. T.

No other trees within limits.

Land mountainous

Soil stony 4" pale.

Timber, mahogany aspen and pine

Mountainous land 80.00 chs.

Aug 14th. 1899.

From the cor. of secs. 23, 24, 25 & 26

Thence run

N. on true line bet. secs 23 & 26

Over broken mountainous land. down very steep descent over boulders and ledges through timber and dense undergrowth.

37.65 Leave timber bears N & S.

40.00 Set a granite stone 15 X 10 X 6 ins 10 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face. raised a mound of stone 2 ft base 1½ ft high W. of cor.

Pits impracticable.

42.22 Stream of pure water 5 lks wide flows N. 55° W.

58.00 Foot of steep mountain

58.50 Enter aspen timber bears N 40° W and S. 40° E.

Subdivisions of T 11 S. R 19 W.

Chains	
58.80	Road bears N. 25° W & S 25° E.
59.00	Stream of pure water 8 lks wide flows N. 20° W.
60.95	Dry bed of creek. drains N. 25° W. and ascend
62.55	Seave aspen bears N 30° W & S 30° E.
67.00	Top of ascent bears N 30° W & S. 30° E.
80.00	Set a granite stone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 22. 23. 26 & 27 marked 2 notches on S. & E. edges, raised a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable. Sand mountainous and rolling Soil stony 2" & 3" rate. Timber, scattering pine and mahogany with aspen skirting the streams. Mountainous land 58.00 chains Sand covered with dense sage brush undergrowth 22.00 chains.
	From the cor. of secs. 22. 23. 26 & 27 Thence run S. 0° 01' E. on true line bet secs 26 & 27 Over rolling bench land at foot of mountain through dense sage brush undergrowth up gentle ascent.
24.00	Top of ascent and continue about level.
40.00	Set a granite stone 15 x 10 x 8 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face, raised a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable
41.50	Enter scrub aspen, bears E & W.
44.80	Small stream 1 lk wide flows W. from spring

Subdivisions of T. 11. S. R. 19 W.

Chains	
	1.00 ch E.
45.00	Leave aspen bears E. & W.
47.00	Enter " " "
47.20	Small stream, flows W. from spring 1.00 E.
47.30	Leave aspen, bears E. & W.
55.00	Begin descent into hollow
56.25	Small spring 50 lks E.
59.62	Granite boulder 10×10×10 ft. on line
60.00	Bottom of hollow and stream of pure water 4 lks wide flows W. skirted with aspen and pine timber and begin ascent bears E. & W.
60.75	Granite boulder 30×30×30 ft. on line.
61.50	Granite dome 40 ft. high 2 ft. E. of line
75.50	Top of ascent bears E. & W. begin descent.
80.00	Set a granite stone 15×10×8 ins. 10 ins. in the ground for cor. of secs 26. 27. 34 & 35, on brow of hill at top of steep descent into ravine, marked 2 notches on E and 1 notch on S. edges raised a mound of stone 2 ft base 1½ ft high W. of cor.

Pits impracticable

Land rolling somewhat rough and broken.

Soil stony 2" & 3" rate

Timber scattering mahogany with aspen and pine skirting the streams

Land covered with dense sage-brush and aspen undergrowth 80.00 chs.

Subdivisions of T. 11 S. R. 19 W.

Chains	
	From cor. of secs. 26. 27. 34 & 35
	Thence Run
	S. 0°01. E. on true line bet. secs 34 & 35.
	Over rough mountainous land
	along E. side of creek.
3.41	Stream of pure water 1 lk wide flows
	W.
14.50	Creek of pure water 5 lks wide flows
	N. 30 W.
22.00	Begin very steep ascent
40.00	Set a sandstone 15 X 10 X 6 ins. 10 ins.
	in the ground for 1/4 sec cor. marked
	1/4 on W. face raised a mound of
	stone 2 ft base 1½ ft high W. of
	cor.
	Pits impracticable.
51.42	Top of ridge 300 ft above creek bed
	bears E. & W.
57.35	Bottom of hollow 100 ft below
	ridge. drains W. and begin ascent
61.00	Top of small ridge. bears E. & W.
64.40	Bottom of swale. drains W. and ascend.
73.00	Top of low ridge. bears E. & W. and
	descend into hollow.
80.00	Set a granite stone 15 X 12 X 6 ins 10
	ins. in the ground for cor. to secs
	2. 3. 34 & 35. marked 2 notches on E
	and 4 notches on W. edges, raised
	a mound of stone 2 ft. base 1½
	ft high W. of cor.
	Pits impracticable.
	Land mountainous and rough
	Soil stony & rate.
	Timber, scattering pine and
	mahogany with aspen skirting
	the streams.
	Mountainous land 80.00 chs.
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Subdivisions of T. 11 S. R. 19 W.

Chains	
	From the cor. of secs 1, 2, 11 & 12 heretofore described
	Thence I run
	N 0° 01' W. on true line bet secs 1 & 2:
	Over rolling ground down rather steep descent
5.70	Bottom of hollow, stream of pure water 3 lks wide flows W and begin rather steep ascent.
23.90	Top of ridge bears E. & W. and begin gentle descent.
40.00	Set a quartzite stone 15×6×6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Continue over almost level ground or sloping W.
50.00	Begin gentle descent.
54.30	Bottom of descent, stream of pure water 3 lks wide flows W. begin gentle ascent.
59.15	Waterdetch bears N 65° W.
66.00	Top of ascent begin gentle descent.
71.10	Bottom of hollow, drains W., begin gentle ascent.
72.80	Top of ascent.
80.00	Intersect N. bdy of Tp. 10.50 chs. E. of Stand. Co. which is red sandstone 3.1 [illegible] marked [illegible] of secs 35 & 36, where I set a quartzite stone 18×8×8× ins 12 ins. in the ground for closing cor. of secs. 1 & 2. marked CC on S. face with 1 groove on the E, and 5 grooves on the W. faces raised a mound of stone 2 ft. base 1½ ft. high S. of cor.
	Pits impracticable.
	Sand rolling broken and rolling
	Soil 2" & 3" rate gravelly.
	Timber, few scattering mahogany
	Sand coverd with dense undergrowth 80.00 ch

Subdivisions of T. 11 S. R. 19 W.

Chains	
	From the cor of secs 22, 23, 26 & 27, heretofore described
	Thence run
	N. 0°01' W. on true line bet. secs 22 & 23
	Over land cut by ravines and water-courses, and rolling, down gentle descent
13.85	Bottom of descent, stream of pure water 6 lks wide, flows N. 65° W.
	Stream skirted with aspen.
14.75	Road bears N. 65° W. & S. 65° E.
21.10	Fine stream of pure water 10 lks wide, flows N. 65° W.
30.00	Stream of pure water 5 lks wide flows N. 70° W. Continue down gentle descent. Aspen timber begins 5.00 chs down stream
32.25	Foot of descent, bears E. & W. Continue over land covered with huge granite boulders.
40.00	Set a granite stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stone 2 ft. base 1½ ft high W. of cor.
	Pits impracticable.
43.15	Road bears E. & W.
59.00	Begins gentle descent.
80.00	Set a granite stone 15 x 10 x 10 ins 10 ins. in the ground for cor of secs 14, 15, 22 & 23. marked 3 notches on the S. and 2 notches on the E. edges, raised a mound of stone 2 ft. base 1½ ft high W. of cor.
	Pits impracticable
	Land rolling and cut with streams
	Soil stony 2" & 3 rate
	Timber Aspen skirting the streams.
	Land covered with dense sagebrush undergrowth. 80.00 chs.

Subdivisions of T. 11 S. R. 19 W.

Chains	
	From the cor. of secs 14, 15, 22 & 23
	Thence Drum,
	E. on random line bet. secs. 14 & 23
40.00	Set temp. 1/4 sec cor.
80.00	The cor. of secs. 13, 14, 23 & 24.
	Thence Drum
	N. on true line bet. secs. 14 & 23
	Over rolling and broken ground through dense sagebrush and huge granite boulders.
1.50	Begin ascent, bears N 55° W & S 55° E.
5.30	Top of ridge bears N 55° W & S 55° E. and descend.
12.00	Descent becomes steep. bears N 45° W & S 45° E.
14.70	Bottom of steep descent bears N 45° W. & S. 45° E.
24.15	Enter aspen timber bears N 45° W & S 45° E.
26.80	Stream of pure water 5 lks wide flows N 45° W.
27.52	Leave aspen timber, bears N 45° W & S 45° E.
30.00	Dry bed of creek, drains N 30° W.
31.00	Begin steep ascent, bears N 40° W & S 40° E.
33.00	Top of ascent bears N 40° W & S 40° E.
40.00	Set a sandstone 15 x 8 x 6 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stone 2 ft base 1½ ft high N. of cor.
	Pits impracticable.
63.88	Enter aspen timber bears N 30° W. & S. 30° E.
64.20	Creek of pure water 5 lks. wide flows N. 30° W.
64.50	Leave aspen timber, bears N 30° W & S 30° E and continue through dense sage brush and granite boulders
80.00	The cor. of secs 14, 15, 22 & 23.

Subdivisions of T. 11 S. R. 19 W.

Chains

Sand broken and rolling
Soil, boulders 3" rate
Timber, aspen skirting the streams
Sand covered with dense sagebush
undergrowth 80.00 chs.

From cor. of secs. 14.15. 22 & 23.
Thence Run
N 0° 01' W. on true line bet secs 14 & 15
Over rolling land covered with
dense sagebrush, down gentle
descent among granite boulders
12.30 Stream of pure water 3 lks wide, flows
N 60° W. Slate boulders
15.06 Stream of pure water 8 lks wide flows
N 65° W.
All streams skirted with birch and
aspen.
34.55 Dry bed of creek drains N 60° W.
38.10 Fine stream of pure water 8 lks
wide flows N 60° W.
40.00 Set a granite stone 18 x 12 x 10 ins. 12
ins. in the ground for 1/4 sec. cor.
marked 1/4 on W. face, raised a
mound of stone 2 ft base 1½ ft
high W. of cor.
Pits impracticable.
44.70 Small stream 10 ins flows N 45° W.
46.60 Stream of pure water 6 lks. wide
flows N 45° W. Soil 1" rate inclined to
be damp and grassy.
80.00 Set a granite stone 18 x 12 x 8 ins 12 ins
in the ground for cor. of secs 10.11.14 & 15
marked 4 notches on the S. and 2
notches on the E. edges, raised a

Subdivisions of T. 11 S R 19 W.

mound of stone 2 ft base 1½ ft high
N. of cor.
Pits impracticable
Sand rolling
Soil 1st & 2d rate sandy.
Timber, aspen and birch skirting
the streams.
Sand covered with dense sage
brush undergrowth 80.00 chs.

From the cor. of secs 10, 11, 14 & 15
Thence Run
E. on random line bet secs 11 & 14
40.00 Set temp. ¼ sec. cor.
80.00 The cor. of secs 11, 12, 13 & 14.
Thence Run
N. on true line bet. secs 11 & 14.
Over broken and rolling ground
through aspen timber and dense
undergrowth. proceed along
N.E. face of mountain ridge
1.50 Leave timber bears N 65° W & S 65° E.
continue among granite boulders
and domes.
12.50 Top of ridge, bears N 65° W. & S 65° E. and
begin descent.
28.00 Pass over rocky point bears N 45° W &
S 45° E.
40.00 Set a granite stone 15 x 8 x 8 ins. 10
ins. in the ground for ¼ sec. cor.
marked ¼ on N face, raised a
mound of stone 2 ft base 1½ ft. high
N. of cor.
Pits impracticable.
52.50 Begin descent into ravine, bears
N 45° W & S 45° E.

Subdivisions of T. 11 S R 19 W.

Chains	
53.65	Enter aspen and birch timber. bears N 60° W & S 60° E.
54.00	Stream of pure water 4 lks wide and begin ascent, stream flows N.W.
54.75	Leave timber, bears N 60° W & S 60° E.
57.00	Top of ascent bears N 60° W & S 60° E. and descend gently among granite boulders.
80.00	The cor. of secs 10.11.14 & 15
	Land, broken and rolling
	Soil, boulders and gravel 3" rate
	Timber, aspen and birch skirting the streams.
	Land covered with dense undergrowth 80.00 chs.
	From the cor. of secs 10.11.14 & 15
	Thence run
	N. 0° 01' W. on true line bet secs 10 & 11,
	Over land sloping gently to the N.W. through dense sage brush undergrowth and huge granite boulders.
19.00	Begin descent, bears N 65° W & S 65° E.
19.87	Stream of pure water 6 lks wide fringed with aspen, flows N 65° W and begin ascent, bears N 65° W & S 65° E.
21.20	Top of ascent. Aspen timber ends 20.00 ch W.
40.00	Set a granite stone 18 X 10 X 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
46.00	Begin very gentle descent.
80.00	Set a granite stone 18 X 12 X 6 ins. 12 ins in the ground for cor. of secs.

Subdivisions of T11. S. R 19 W.

Chains	2, 3, 10 & 11. marked 5 notches on the S. & 2 notches on the E. edges, raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	Sand gently sloping to the N. W.
	Soil. boulders 5" rate
	Timber. aspen skirting the streams
	Sand covered with dense sagebrush undergrowth 80.00 chs.
	From the cor. of secs 2, 3, 10 & 11
	Thence I run
	E. on random line bet secs 2 & 11.
40.00	Set temp. ¼ sec. cor.
80.00	The cor. of secs 1, 2, 11 & 12.
	Thence I run
	W. on true line bet. secs 2 & 11.
	Down steep descent among scattering mahogany timber and dense sagebrush undergrowth.
2.60	Bottom of hollow, drains N 60° W. and ascend
6.80	Top of ascent bears N 50° W & S 50° E.
9.00	Begin descent into swale, bears N 50° W & S 50° E.
22.70	Top of ridge, bears N 60° W & S 60° E. and descend into hollow
28.10	Bottom of hollow drains N 45° W.
29.00	Begin ascent, bears N 45° W & S 45° E.
33.35	Top of ridge bears N 45° W & S. 45° E. and descend.
36.80	Bottom of hollow, drains N 45° W. and ascend
38.00	Top of small ridge bears N 45° W & S 45° E.
40.00	Set a granite stone 15 x 6 x 6 ins.

Subdivisions of T. 11 S. R. 19 W.

Chains	
	10 ins. in the ground for 1/4 sec. cor. marked on N. face, raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
46.65	Top of small ridge, bears N. 45° W. & S. 45° E.
60.75	Ravine drains N. 50° W.
74.85	Ravine drains N. 50° W.
80.00	The cor. of secs. 2, 3, 10, & 11.
	Land mountainous and rolling. Soil, boulders 3" rate. Timber, scattering mahogany on the first 20. chs. Land covered with dense sage-brush undergrowth. 80.00 chs.
	Aug. 15. 1899.
	Aug. 15, 1899. at 9.50 p.m. l.m.t. observed Polaris at eastern elongation at the cor. of secs. 2, 3, 10 & 11, in accordance with the Manual of instructions and mark the line thus determined by a tack driven into a wooden plug firmly set in the ground 5 chs. N. of my station.
	Aug. 16, 1899 at 7.30 a.m. I lay off the azimuth of Polaris 1°37' to the W. and mark the true meridian thus determined by driving a tack into a wooden plug W. of the point established

Subdivisions of T 11 S. R 19 W.

Chains	
	last night. The magnetic bearing of the true meridian is N. 16°51' W. which reduced by the table on page 100 of the Manual gives the mean magnetic declination 16°45' E.
	Beginning at the cor. of secs 2. 3. 10 & 11. from the true meridian I lay off an angle of 0°01' to the W. Thence I run N 0°01' W. on true line bet secs. 2 & 3. Over undulating ground slightly descending through dense sage brush undergrowth.
20.00	Low boulder ridge bears N 60° W & S 60° E.
28.00	Low ridge bears E & W.
32.55	Dry wash drains S 60° W.
40.00	Set a granite stone 15 X 8 X 6 ins 10 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
43.75	Top of low ridge bears E & W.
64.20	Begin steep descent into ravine, bears N 70° W & S 70° E.
68.25	Bottom of ravine drains N 80° W. and ascend.
73.40	Top of ascent, bears N 80° W.
79.80	Intersect N. bdy. of Tp 10.64 chs. E. of which is a white flint stone 6 x 10 x 6 above ground marked [illegible] Stand cor of secs 34 & 35 where I set a granite stone 18 X 10 X 8 ins. 12 ins. in the ground for closing cor. of secs 2 & 3. marked CC on W. face with

2 grooves on E. and 4 grooves on W. faces, raised a mound of stone 2 ft. base 1½ ft. high S. of cor.
Pits impracticable
Land gently rolling
Soil, gravel 3" rate.
No timber
Land covered with dense sagebrush undergrowth 79.80 chs.

From the cor. of secs 3, 4, 33 & 34 on S bdy of Tp. heretofore described
Thence run
N 0°02 W. on true line bet. secs 33 & 34
Over gently undulating ground covered with dense sagebrush undergrowth.

1.00 Begin gentle ascent, bears E. & W.
5.50 Top of ascent bears E. & W. and descend
14.00 Bottom of descent, bears E. & W. and begin very gentle ascent.
22.00 Top of ascent, bears E. & W. and begin very gentle descent.
40.00 Set a quartzite stone 18X8X8 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face, raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
48.70 Bottom of hollow, drains N 65° W. and continue along W. slope of side-hill.
80.00 Set a quartzite stone 18X8X8 ins. 12 ins. in the ground for cor. of secs 27, 28, 33, & 34, marked 1 notch on S. and 3 notches on E. edges, raised a mound of stone 2 ft base 1½

Subdivisions of T. 11 S R 19 W.

ft high N. of cor.
Pits impracticable.
Land, gently rolling
Soil 1 & 2" rate, sand clay and gravel.
No timber
Land covered with dense sage brush undergrowth 80.00 chs.

From the cor. of secs. 27, 28, 33 & 34
Thence Dun
E. on random line bet. secs 27 & 34
40.00 Set temp. 1/4 sec. cor.
80.00 The cor. of secs 26, 27, 34 & 35.
Thence Dun
N. on true line bet secs 27 & 34.
Over broken and undulating ground covered with dense sage brush undergrowth.
Descend into hollow.
6.00 Enter aspen timber bears N 60° W & S 60° E.
6.47 Stream of pure water 5 lks wide flows N 60° W.
6.90 Leave aspen timber. bears N 60° W & S 60° E.
11.00 Begin gentle descent among large granite boulders.
40.00 Set a granite stone 18 x 12 x 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on north face, raised a mound of stone 2 ft base 1 1/2 ft. high N of cor.
Pits impracticable.
Continue descent among boulders
60.14 Road to mine of Shebazine bears N 45° W and S 45° E.
67.00 Begin steep descent into creek bed

Subdivisions of T. 11. S. R. 19 W.

Chains	
	bears N 55° W & S 55° E.
69.00	Fifteen Mile Creek: fine stream of pure water 12 lks wide flows N 55° W. fringed with aspen and birch and ascend.
70.50	Top of ascent and begin gentle descent, granite boulders become smaller.
80.00	The cor. of secs 27. 28. 33 & 34. Land somewhat rough and rolling Soil, boulders & rate. Timber, aspen and birch fringing the stream Land covered with dense sagebush undergrowth 80.00 chs.
	From cor. of secs 27. 28. 33 & 34 Thence I run N 0° 05 W. on true line bet. secs 27 & 28. Over undulating ground covered with dense sagebush undergrowth
5.80	Begin steep descent into hollow bears N 45° W & S 45° E.
10.40	Fifteen Mile Creek. 12 lks wide flows N 45° W.
11.44	Arm of creek 3 lks wide drains N 40° W. and begin steep ascent
12.50	Top of steep ascent, bears N 45° W & S 45° E
34.65	Road to Queen of Sheba mine bears N 45° W and S 45° E.
40.00	Set a granite stone 15 x 8 x 8 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face. raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
44.32	Stream of pure water 5 lks wide flows N 50° W. skirted with birch.

Chains	
45.116	Spring of pure water on the line. flows N 50° W. leave buck bears N 50° W. S 50° E.
80.00	Set a granite stone 18x8x6 ins 12 ins. in the ground for cor. of secs 21.22.27 & 28. marked 2 notches on the S. and 3 notches on the E. edges raised a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable. Land undulating Soil 1" & 2" rate Gravel No timber Land covered with dense sage brush undergrowth. 80.00 chs.
	From the cor. of Secs 21.22.27 & 28 Thence Run E. on random line bet secs 22 & 27
40.00	Set temp ¼ sec cor.
80.00	The cor. of secs 22.23.26 & 27. Thence Run N. on true line bet. secs. 22 & 27. Over undulating ground. with gentle ascent. through dense sage brush undergrowth.
4.00	Begin descent into ravine
9.64	Bottom of ravine, drains N. and begin gentle ascent.
14.00	Top of ascent bears N. & S. and descend
40.00	Set a granite stone 18x14x6 ins 12 ins in the ground for ¼ sec. cor. marked ¼ on N. face. raised a mound of stone 2 ft base 1½ ft. high N. of cor Pits impracticable.

Subdivisions of T. 11 S. R. 19 W.

Chains	
80.00	The cor. of secs. 21, 22, 27 & 28. Land slightly undulating or sloping gently to the N.W. Soil 2d rate, gravel. No timber Land covered with dense sage-brush undergrowth 80.00 chs.
	From the cor. of secs 21, 22, 27 & 28 Thence run N 0° 02' W. on true line bet. secs 21 & 22 Over bench land sloping gently to the N.W. covered with dense sagebrush undergrowth among scattering granite boulders.
40.00	Set a granite stone 15 X 6 X 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
79.90	Road, bears S 45° W & S 45° E.
80.00	Set a granite stone 15 X 8 X 8 ins. 10 ins. in the ground for cor. of secs 15, 16, 21 & 22 marked 11 S. on N.E. and 19 W. on S.E. faces, 3 notches on S. & E. edges, raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable. Land sloping gently to the N.W. Soil 1 & 2 rate, clay and gravel. No timber Land covered with dense sagebrush undergrowth 80.00 chs.

Subdivisions of T 11 S. R 19 W.

Chains From the cor. of secs. 15, 16, 21 & 22
Thence Drum
E. on random line bet. secs 15 & 22
40.00 Set temp 1/4 sec. cor.
80.00 The cor. of secs 14, 15, 22 & 23
Thence Drum
N. on true line bet. secs 15 & 22
Over slightly undulating ground covered with dense sagebrush undergrowth
8.50 Top of low ridge, bears N 45° W & S. 45° E.
40.00 Set a granite stone 18 X 12 X 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft base 1½ ft high N. of cor.
Pits impracticable.
75.37 Road, bears N 60° W & S 60° E.
78.00 Stream 5 lks wide, flows N 65° W.
80.00 The cor. of secs 15, 16, 21 & 22.
Land slightly undulating
Soil, gravel and boulders 3" rate
No timber
Land covered with dense sagebrush undergrowth 80.00 chs.

From the cor of secs 15, 16, 21 & 22
Thence Drum
N 0° 02' W on true line bet secs 15 & 16
Over slightly undulating ground through dense sagebrush undergrowth and scattering granite boulders.
1.37 Stream 5 lks wide, flows N 65° W.
4.80 Road, bears N 60° W & S 60° E.
40.00 Set a granite stone 18 X 10 X 4 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft

Subdivisions of T 11 S R 19 W.

W. of cor.
Pits impracticable.
47.50 Top of low ridge covered with boulders bears N 60° W & S 60° E.
68.68 Road, bears N 60° W & S 60° E.
76.59 Ditch, drains N 65° W.
78.10 Dry bed of creek, drains N 65° W.
79.07 Dry bed of creek, drains N 65° W.
80.00 Set a granite stone 15 X 14 X 8 ins. 10 ins in the ground for cor of secs 9, 10, 15 & 16. marked with 4 notches on the S. and 3 notches on the E. edges; raised a mound of stone 2 ft base 1½ ft. high W. of cor.
Pits impracticable.
Land undulating
Soil, gravel and boulders 8" rate
No timber
Land covered with dense sagebrush undergrowth 80.00 chs.

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From the cor. of secs 9, 10, 15 & 16
Thence Run
E. on random line bet. secs 10 & 15
40.00 Set temp. ¼ sec cor.
79.98 The cor. of secs 10, 11, 14 & 15.
Thence Run
N. on true line bet. secs 10 & 15.
Over undulating ground covered with dense sagebrush undergrowth and scattering granite boulders.
34.40 Road, bears N 45° W & S 45° E.
36.05 Stream 6 lks wide, flows N 45° W.
39.99 Set a granite stone 18 X 12 X 7 ins. 12 ins in the ground for ¼ sec. cor. marked ¼ on N face; raised a mound of stone 2 ft base 1½ ft high N. of cor.
Pits impracticable

Subdivisions of T11 S R19 W.

Chains	
79.98	The cor. of secs 9.10.15 & 16.
	Sand undulating
	Soil, boulders 3" rate
	No timber
	Sand covered with dense sagebrush undergrowth 79.98 chs.
	From the cor. of secs 9.10.15 & 16
	Thence I run
	N. 0° 02' W. on true line bet secs 9 & 10.
	Over undulating ground, covered with dense sagebrush undergrowth and scattering granite boulders.
40.00	Set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable.
44.43	Road, bears N 45° W. & S 45° E.
68.65	Dry bed of creek, drains N 45° W.
80.00	Set a granite stone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs 3.4.9 & 10. marked with 5 notches on the S. and 3 notches on the E. edges; raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
	Sand undulating
	Soil, boulders 3" rate
	No timber
	Sand covered with dense sagebrush undergrowth 80.00 chs.

Subdivisions of T 11 S. R 19 W.

Chains	
	From the cor. of secs 3. 4. 9 & 10.
	Thence Land
	Con random bet. secs 3 & 10
40.00	Set temp. 1/4 sec. cor.
80.02	The cor. of secs 2. 3, 10 & 11.
	Thence Run
	N. on true line bet. secs 3 & 10.
	Over slightly undulating ground, covered with dense sagebrush undergrowth and granite boulders.
40.01	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft base 1 1/2 ft high N. of cor.
	Pits impracticable.
75.25	Road, bears N. 10° W. & S. 10° E.
80.02	The cor. of secs 3. 4. 9 & 10.
	Land slightly undulating.
	Soil boulders & gravel 3" late.
	No timber.
	Land covered with dense sagebrush undergrowth 80.02 chs.
	From the cor. of secs 3. 4. 9 & 10
	Thence Run
	N 0° 02 W. on true line bet. secs 3 & 4
	Over rolling land covered with dense sagebrush undergrowth.
19.00	Begin gradual ascent
24.00	Road, bears N. 10° W. & S. 10° E.
24.50	Top of low ridge, bears N 35° W. & S. 35° E. and descend rather steep descent.
31.25	Bottom of steep descent, bears N. 35° W. and S. 35° E. and ascend gradually
37.00	Road, bears N 45° W. & S. 45° E.

Subdivisions of T. 11 S. R. 19 W.

Chains	
40.00	Set a granite stone 18 x 10 x 10 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on the W. face; raised a mound of stone 2 ft base 1 1/2 ft. high W. of cor.
	Pits impracticable
58.00	Top of gradual ascent and begin descent to Tp line.
79.86	Intersect N. bdy of Tp. 10.91 chs E. of the Natl cor. of secs 33 & 34, where I set a granite stone 18 x 12 x 8 ins 12 ins. in the ground for closing cor. of secs 3 & 4. marked C.C. on S. 3 grooves on E. & W. faces; raised a mound of stone 2 ft base 1 1/2 ft high S. of cor.
	Pits impracticable.
	Sand rolling
	Soil, 3" rate, gravel.
	No timber
	Sand covered with dense sagebrush undergrowth 79.86 chs.

Subdivisions of T 11 S R 19 W.

Chains	
	From the cor. of secs 4, 5, 32 & 33
	(at W. Bdy of Township and heretofore described)
	Thence Run.
	N 0° 03 W. on true line bet. secs 32 & 33
	Over rolling undulating ground
	Covered with dense sagebrush under-growth.
5.65	Ravine. drains N 45° W. and begin gradual ascent.
13.47	Top of low ridge. bears N 35° W and S 35° E. and desced into ravine
26.22	Bottom of ravine, drains N 30° W. and ascend.
38.00	Top of low ridge bears N 30° W & S 30° E.
40.00	Set a quartzite stone 18x10x8 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
47.30	Begin descent into ravine
50.82	Bottom of ravine. drains N 30° W.
80.00	Set a quartzite stone 18x8x8 ins 12 ins. in the ground for cor. of secs. 28. 29 32 & 33. marked with 1 notch on the S. and 4 notches on the E. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Sand rolling
	Soil 2" rate, gravel.
	No timber
	Sand covered with dense sagebrush undergrowth 80.00 chs.

Subdivisions of T. 11. S. R. 19 W.

Chains	
	From the cor. of secs 28, 29, 32 & 33
	Thence Drun
	E. on random line bet secs 28 & 33.
40.00	Set temp. 1/4 sec. cor.
80.04	The cor of secs 27, 28, 33 & 34
	Thence Drun
	N. on true line bet. secs. 28 & 33.
	Over undulating ground, cut with ravines and covered with dense sagebrush undergrowth up gentle ascent.
6.34	Top of low ridge bears N 45° W. and S 45° E.
9.93	Bottom of ravine, drains N 45° W. and begin gradual ascent.
20.00	Top of low ridge bears N 45° W & S 45° E. and descend into ravine
25.68	Bottom of ravine, drains N 40° W. and begin gentle ascent
29.60	Top of low ridge, bears N 43° W & S 43° E. and begin gentle descent into ravine.
32.65	Bottom of ravine, drains N. 40° W. and begin gentle ascent
36.00	Top of low ridge, bears N 40° W and S. 40° E. and continue on very gentle descent.
40.02	Set a quartzite stone 15 x 8 x 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 3 ft base 1½ ft. high N. of cor.
	Pits impracticable
46.68	Road, bears N. 35° W. and S 35° E.
80.04	The cor. of secs 28, 29, 32 & 33
	Land rolling
	Soil 2" rate, clay and gravel.
	No timber
	Land covered with dense sagebrush undergrowth 80.04 chs.

Subdivisions of T. 11 S. R. 19 W.

Chains	
	From the cor. of secs 28 & 29, 32 & 33.
	Thence run
	N. 0° 03' W. on true line bet secs 28 & 29
40.00	Set a quartzite stone 18 X 10 X 6 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18 X 18 X 12 ins. N. and S. of stone, 3 ft. dist.; and raised a mound of earth 3½ ft base 1½ ft high N. of cor.
65.69	Road. bears N. 60° W. & S. 60° E.
80.00	Set a quartzite stone 18 X 12 X 6 ins. 12 ins. in the ground, for cor. of secs 20, 21, 28 & 29. marked with 2 notches on the S. and 4 notches on the E. edge; dug pits 18 X 18 X 12 ins in each sec. 5½ ft. dist.; and raised a mound of earth 4 ft base 2 ft. high N. of cor.
	Land almost level
	Soil 18" to 2" sale. sand and clay.
	No timber.
	Land covered with dense sagebrush undergrowth 80.00 chs.
	From the cor. of secs. 20, 21, 28 & 29
	Thence run
	E. on random line bet. secs 21 & 28
40.00	Set temp. 1/4 sec cor.
80.00	Intersect N. and S. line 6 chs. S. of the cor. of secs. 21, 22, 27 and 28.
	Thence run
	S. 89° 57' W. on true line bet secs 21 & 28
	Over very slightly rolling ground covered with dense sagebrush undergrowth
35.05	Road, bears N. 20° E and S. 20° W.
40.00	Set a quartzite stone 18 X 10 X 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face;

raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
51.00 Stream 5 lks wide, drains N. 45° W.
58.20 Fifteen Mile Creek 8 lks wide flows N. 60° W.
64.62 Branch of Fifteen Mile Creek 8 lks wide, flows N. 60° W.
76.80 Road, bears N. 15° W. and S. 15° E.
80.00 The cor. of secs. 20, 21, 28 and 29.
Land very gently rolling
Soil 1st & 2d rate, sand and clay.
No timber
Land covered with dense sagebrush undergrowth 80.00 chs.

From the cor. of secs. 20, 21, 28 & 29
Thence run
N. 0° 03' W. on true line bet. secs. 20 & 21.
Through dense sagebrush undergrowth
12.65 Branch of Fifteen Mile Creek 8 lks wide, flows N. 68° W.
13.10 Fifteen Mile Creek 6 lks wide, flows N. 68° W.
37.28 Dry bed of stream, drains N. 60° W.
40.00 Set a quartzite stone 18 x 12 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on the W. face; raised a mound of stone 2 ft base 1½ ft. high W. of cor.
Pits impracticable
41.35 Irrigation ditch, drains N. 55° W.
44.00 Dry bed of creek, drains N. 55° W.
80.00 Set a quartzite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and

Subdivisions of T. 11 S. R. 19 W.

Chains 4 notches on the E. edges; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable.
Land very slightly rolling
Soil 2" rate, sandy.
No timber
Land covered with dense sage-brush undergrowth 80.00 chs.

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From the cor. of secs. 16, 17, 20 & 21.
Thence Run
N. 89° 57' E. on random line bet secs 16 & 21.
40.00 Set temp. ¼ sec. cor.
79.94 The cor. of secs 15, 16, 21 and 22.
Thence Run
S. 89° 57' W. on true line bet secs 16 and 21.
Through dense sagebrush under-growth.
39.97 Set a quartzite stone 18 x 12 x 8 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable.
65.02 Road to Queen of Sheba Mine bears N. 15° W. and S. 15° E.
73.00 Road to Queen of Sheba Mine bears N. & S.
79.94 The cor. of secs 16, 17, 20 & 21.
Land very gently rolling
Soil 1" & 2" rate, clay and sand.
No timber
Land covered with dense sage brush undergrowth 79.94 chs

Subdivisions of T. 11. S. R. 19 W.

Chains	
	From the cor. of secs. 16, 17, 20 and 21
	Thence run
	N. 0° 03' W. on true line bet. secs. 16 and 17.
	Over land covered with dense sage brush.
22.62	Road to Queen of Sheba Mine bears N. 20° W. and S. 20° E.
40.00	Set a granite stone 18 X 12 X 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
54.00	Road to Queen of Sheba Mine bears N. 20° W. and S. 20° E.
57.70	Irrigation ditch, drains N. 30° W.
66.00	Stream 6 lks. wide, flows N. 30° W.
80.00	Set a granite stone 18 X 9 X 9 ins. 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on the S. and E. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Land very gently rolling
	Soil 2" date, sand and clay.
	No timber
	Land covered with dense sage brush undergrowth 80.00 chs.
	From the cor. of secs. 8, 9, 16 and 17.
	Thence run
	N. 89° 57' E. on random line bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. & S. line 6 lks. N. of the cor. of secs. 9, 10, 15 and 16.

Subdivisions of T. 11 S. R. 19 W.

Chains	
	Thence from
	N. on true line bet. secs 9 & 16
	Over gently rolling land through
	dense sagebrush undergrowth
0.29	Dry bed of stream, drains N. 60° W.
2.30	" " " "
9.50	Irrigation ditch flows N. 60° W.
40.00	Set a granite stone 15 x 14 x 10 ins. 10
	ins. in the ground for 1/4 sec. cor.
	marked 1/4 on N. face, raised a
	mound of stone 2 ft. base 1½
	ft. high N. of cor.
	Pits impracticable
59.05	Stream 5 lks wide flows N. 30° W.
61.15	Road, bears N. 30° W. and S. 30° E.
80.00	The cor. of secs. 8, 9, 16 & 17.
	Land gently rolling
	Soil, sandy 2nd rate.
	No timber
	Land covered with dense sagebrush
	undergrowth 80.00 chs.
	From the cor. of secs 8, 9, 16 & 17
	Thence from
	N. 0° 03' W. on true line bet. secs
	8 & 9
	Over gently rolling ground, through
	dense sagebrush undergrowth.
27.00	Begin descent into Creek bottom
	bears N. 45° E. & S. 45° W.
29.75	Bottom of steep descent.
30.10	Enter Antelope Lake's (Indian) field
	a very irregular indosure general
	bearing of fence is N. 50° E. & S. 50° W.
40.00	Set a quartzite stone 18 x 8 x 8 ins 12
	ins in the ground for 1/4 sec.
	cor. marked 1/4 on N. face; raised
	a mound of stone 2 ft base 1½ ft
	high N. of cor.
	Pits impracticable.

From the last named 1/4 sec. cor.
Antelope Jake's cabin bears S 45° W.
10.00 chs dist.
46.62 Irregular line of fence (north side of
Indian Jake's field) bears N 50° E & S 50° W.
47.70 Creek 6 lks wide, flows N. 25° E.
63.50 Begin ascent from creek bottom
bears N 20° E & S 20° W.
64.00 Top of ascent bears N 25° E & S 25° W.
80.00 Set a quartzite stone 18 x 10 x 8 ins 12 ins
in the ground for cor. of secs 4.5.8
& 9 marked 5 notches on S. and 4 notches
on E. edges, raised raised a mound
of stone 2 ft base 1½ ft high N. of cor.
Pits impracticable
Land gently rolling
Soil sandy 1" & 2" rate
No timber
Land covered with dense sagebrush
undergrowth 63.50 chs.

.350
16.50

From the cor. of secs 4.5.8 & 9
Thence run
E. on random line bet. secs 4 & 9
40.00 Set temp. 1/4 sec. cor.
80.04 Intersect N. and S. line at the cor. of secs 3.4.9 & 10
Thence run
N. on true line bet. secs 4 & 9.
Over rolling land through dense undergrowth
14.50 Dry bed of stream, drains N 50° W.
40.02 Set a quartzite stone 15 x 12 x 2 ins
10 ins in the ground for 1/4 sec. cor.
marked 1/4 on N. face; raised a
mound of stone 2 ft base 1½ ft
high N. of cor.
Pits impracticable
52.75 Begin descent into creek bottom
bears N 35° E & S 35° W.
54.00 Bottom of descent bears N 35° E & S 35°
W. enter creek bottom.

Subdivisions of T 11 S R 19 W.

Chains	
56.58	Dry bed of stream, drains N 35° E.
64.10	Dry bed of stream, drains N 30° E
67.30	Begin ascent from creek bottom bears N 30° E. and S. 30° W.
68.30	Top of ascent, bears N. 30° E. and S. 30° W.
	Waterdick, same bearing as above.
80.04	The cov. of secs 4, 5, 8 and 9.
	Sand gently rolling.
	Soil 2" rate, clay and sand.
	No timber
	Sand covered with dense sage brush undergrowth 80.04 chs.
	From the cov. of secs 4, 5, 8 and 9
	Thence I run
	N. 0° 03' W. on true line bet. secs. 4 and 5.
	Over gently rolling land
	Covered with dense sagebrush
31.82	Road, bears N 40° E and S 40° W.
40.00	Set a quartzite stone 15 x 7 x 6 ins. 10 ins. in the ground for 1/4 sec. cov. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft. high W. of cov.
	Pits impracticable
79.73	Intersect N. bdy of Tp. 10.54 chs. E. of the Stand Cr of secs 32 and 33. which is fluid line Cr 1/16 in a tongue of marked sec. lines as described by the Surveyor General
	where I set a quartzite stone 18 x 12 x 8 ins. 12 ins in the ground for closing cor for secs 4 and 5 marked with C.C. on the S. 2 grooves on the W. and 4 grooves on the E. faces; raised a mound of stone 2 ft base 1½ ft. high S. of cov.
	Pits impracticable.

Chains

Land gently rolling
Soil 2nd rate, gravel.
No timber
Land covered with dense sage-
brush undergrowth 79.73 chs.

From the cor. of secs. 5, 6, 31 & 32 on S. Bdy of Township and Section described
N. 0°03' W. on true line bet. secs. 31 and 32.
Through foot hills along the E. side of mountain through scattering cedars and pignon pine timber
1.50 Bottom of hollow, drains N. 60° E. and begin ascent.
11.50 Top of ridge, bears N. 60° E. and S. 60° W. and descend
26.57 Bottom of hollow, drains N. 60° E. and ascend.
32.63 Top of ridge, bears N. 60° E. and S. 60° W. and descend
37.00 Bottom of hollow, drains N. 65° E. and ascend
40.00 Set a stone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft high W. of cor.
Pits impracticable.
47.60 Top of ridge, bears N. 65° E. and S. 65° W. and descend.
51.20 Bottom hollow, drains N. 64° E. and ascend.
58.00 Top of small ridge, bears N. 60° E. and S. 60° W. and descend.
62.66 Bottom of hollow, drains N. 60° E. and ascend.
71.00 Top of cedar ridge bears N. 50° E. and S. 50° W. and descend.

Subdivisions of T. 11 S. R. 19 W.

Chains	
80.00	Set a limestone 18X10X6 ins. 12 ins in the ground for cor of secs 29.30, 31 & 32, marked with 1 notch on the S. and 5 notches on the E. edges; raised a mound of stone 2 ft base 1½ ft. high W. of cor.
	Pits impracticable
	Land mountainous and broken
	Soil stony, 3" rate.
	Timber scattering cedar and mahogany.
	Mountainous land 80.00 chs.
	From the cor. of secs 29, 30, 31 & 32.
	Thence Drew
	E. on random line bet secs 29 & 32.
40.00	Set temp. ¼ sec. cor.
80.06	The cor. of secs 28, 29, 32 and 33.
	Thence Drew
	W. on true line bet. secs 29 and 32.
	Over very gently rolling land through dense sage brush.
	Gently ascending.
23.00	Top of low ascent. bears N. 40° W. and S. 40° E. and descend.
24.25	Bottom of ravine, drains N. 40° W. and ascend.
26.00	Top of ascent, bears N. 40° W.
40.03	Set a quartzite stone 18X8X6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
53.00	Begin steep descent into creek bottom bears N. & S.
58.13	Bottom of descent bears N. and S.

Subdivisions of T 11 S R 19 W.

Chains	
61.83	Dry bed of creek, drains N 20° E.
62.45	Foot of ascent from creek bottom, bears N. and S.
64.13	Top of ascent, bears N. and S.
69.37	Road, bears N. and S. and ascend to cov.
80.06	The cov. of secs 29. 30, 31 and 32.
	Sand gently rolling
	Soil 2" rate, sandy
	No timber
	Sand covered with dense sage brush undergrowth 80.06 chs.
	From the cov. of secs 29. 30. 31 and 32.
	Thence I run
	W. on random line bet secs 30 and 31
40.00	Set temp. 1/4 sec cov
77.55	The cov. of secs 25, 30, 31 and 36. on West Bdy of township & therefore described.
	Thence I run
	E. on true line bet. secs. 30 and 31
	Over rough mountainous land covered with cedar and pinion pine timber.
	Ascend W. side of mountain steep
19.22	Top of mountain 600 ft. above beach land, bears N. 15° E. and S. 15° W. and descend gradually.
37.55	Set a limestone 18 x 12 x 8 ins. 12 ins. in the ground for 1/4 sec. cov. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cov.
	Pits impracticable.
58.65	Bottom of descent, hollow, or ravine, drains S 60° E. and ascend.
60.74	Top of small ridge, bears S. 60° E. and N. 60° W.

Subdivisions of T. 11 S. R 19 W.

Chains	
77.55	The cor. of secs 29.30. 31 and 32.
	Land mountainous and rough
	Soil. stony 4" rate
	Timber. cedar and pinion pine
	Mountainous land 77.55 chs.

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From the cor. of secs. 29.30, 31 and 32.
Thence run
N. 0° 03' W. on true line bet secs. 29 and 30
Over rather broken land, cut by ravines and covered with dense sagebrush
7.75 Top of low ridge, bears N 65° E. and S. 65° W.
15.75 Bottom of hollow or ravine, drains N. 65° E. and ascend.
23.00 Top of low ridge, bears N. 65° E and S. 65° W. and descend.
27.25 Bottom of hollow or ravine, drains N 65° E. and ascend.
40.00 Set a limestone 18X8X6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1 1/2 ft high W. of cor.
Pits impracticable.
41.50 Begin gradual descent.
69.72 Road, bears N. 20° W. and S 20° E.
80.00 Set a limestone 18X18X6 ins, 12 ins in the ground for cor. of secs. 19. 20. 29 and 30. marked with 2 notches on the S. and 5 notches on the E. edges; raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable
Land broken and rolling.

Subdivisions of T. 11 S. R. 19 W.

chains	
	Soil 3" rate. gravel.
	No timber
	Land covered with dense sagebrush
	undergrowth 80.00 chs.
	From the cor. of secs 19, 20, 29 and 30.
	Thence runs
	E. on random line bet. secs 20. and 29
40.00	Set temp. 1/4 sec. cor.
80.00	The cor. of secs. 20. 21. 28 and 29.
	Thence runs
	N. on true line bet secs 20 and 29.
	Over gently rolling bench land
	covered with dense sagebrush.
15.00	Road, bears N. 45° W. and S 45° E.
20.70	Ravine, drains N. 45° W.
32.00	Begin steep descent, bears N 45° W and S 45° E.
33.85	Bottom of hollow, drains N 45° W. and ascend.
37.00	Top small ridge, bears N 40° W and S. 40° E.
37.80	Ravine, drains N 43° W.
40.00	Set a quartzite stone 18X10X6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft base 1½ ft. high N. of cor.
	Pits impracticable.
45.40	Top of descent into creek bottom. bears N 15° E and S. 15° W.
49.05	Bottom of steep descent bears N 15° E and S. 15° W.
	Also irrigation ditch, drains N 12° E.
49.95	Dry bed of creek, drains N. 15° E.
55.21	Foot of steep ascent from creek bottom bears N. and S.

Subdivisions of T. 11 S. R. 19 W.

Chains	
57.35	Top of ascent, bears N. and S.
72.06	Road, bears N. and S.
80.00	The cor. of secs. 19, 20, 29 and 30.
	Sand rolling and cut by ravines
	Soil, 2" rate. gravel.
	No timber.
	Sand covered with dense sagebrush
	undergrowth 80.00 chs.
	From the cor. of secs. 19, 20, 29 and 30
	I trence down
	N. on random line, bet. secs 19 & 30.
40.00	Set temp. 1/4 sec. cor.
77.40	The cor. of secs. 19, 24, 25 and 30, on North boundary of Township described
	I trence down
	E. on true line bet. secs. 19 and 30
	Over mountainous and broken land.
	Covered with dense sagebrush and scattering
	cedar and pinion pine timber.
9.30	Road, bears N. 40° E. and S. 40° W.
10.26	Road, bears N. 45° E. and S. 45° W.
11.65	Ravine, drains N. 40° E.
12.15	Road, bears N. 45° E. and S. 45° W.
16.40	Low ridge, bears N. 30° W. and S. 30° E.
24.65	Enter cedar and pinion pine
	timber, bears N. and S.
28.80	Bottom hollow or ravine, drains
	N. 45° W.
35.40	Top of ridge, bears N. 45° W. and S. 45° E.
37.40	Set a limestone 18 x 8 x 6 ins. 12 ins.
	in the ground for 1/4 sec. cor. marked
	1/4 on N. face; raised a mound of
	stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
	A pinion 10 ins. in diam. bears
	S. 20° E. 25 lks dist. marked 1/4 S. 30. B.T.
	A pinion pine 12 ins in diam. bears

Subdivisions of T. 8. R. 17 W.

Chains	
	N. 50° W. 20 lks. dist. marked 1/4 S. 17 B.T.
50.00	Top of N. point of small mountain 250 ft. above the creek, bears N. and S. and begins steep descent
63.40	Foot of steep descent, leave timber bears N. and S. and continues down very gradual descent.
73.47	Road, bears N. 10° W. and S. 10° E.
77.40	The cor. of secs. 19, 20, 29 and 30.
	Land mountainous and broken
	Soil stony 3rd rate
	Timber, scattering cedars and pinon pine.
	Mountainous land 63.40 chs
	Land covered with dense sage brush undergrowth 14.00 chs.
	From the cor. of secs. 19, 20, 29 and 30
	Thence run.
	N. 0°03' W. on true line bet secs 19 and 20
	Over almost level bench land covered with dense sagebrush.
11.00	Small clump of cedars 1.00 ch. through them.
40.00	Set a quartzite stone 18x10x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
40.77	Road, bears N. 65° E. and S. 65° W.
80.00	Set a quartzite stone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked 3 notches on the S. and 5 notches on the E. edges; raised a mound of stone 2 ft.

Subdivisions of T. 11 S. R. 19 W.

Chains.	
	1½ ft. high W. of cor.
	Pits impracticable
	Sand, level bench
	Soil, 2" rate, clay.
	No timber
	Land covered with dense sagebrush
	undergrowth 80.00 chs.
	From the cor. of secs 17, 18, 19 and 20
	Thence Drun
	E. on random line bet. secs 17 and 20
40.00	Set temp. 1/4 sec. cor.
80.04	The cor. secs 16, 17, 20 and 21.
	Thence Drun
	N. on true line bet. secs 17 and 20.
	Over almost level ground ground
	Covered with dense sagebrush
22.04	Ditch flows N 35° W.
34.66	Begin steep descent into creek bottom
	bears N and S.
35.54	Foot of steep descent, bears N and S.
38.34	Creek 6 lks. wide, flows N 15° E.
40.02	Set a quartzite stone 18 X 8 X 4 ins. 12
	ins. in the ground for 1/4 sec. cor.
	marked 1/4 on N. face; raised a
	mound of stone 2 ft. base 1½ ft.
	high W. of cor.
	Pits impracticable.
	From this point the S.W. cor. of the
	upper Indian enclosure bears
	about N. 8.00 chs. dist.
41.04	Begin steep ascent from creek
	bottom, bears N and S.
43.04	Top of steep ascent, bears N and S.
47.48	Road, bears N and S.
74.62	Road, bears N 40° E. and S 40° W.
80.04	The cor. of secs. 17, 18, 19 and 20.

Subdivisions of T. 11 S. R. 19 W.

Chains Land almost level.
Soil 2" rate. clay.
No timber
Land covered with dense sage
brush undergrowth 80.04 chs.

From the cor. of secs 17, 18, 19 and 20
Thence Run
N. on random line bet. secs 18 and 19
40.00 Set temp. 1/4 sec. cor.
77.35 The cor. of secs. 13, 18, 19 and 24. on West Boundary
Thence Run
E. on true line bet secs. 18 and 19.
Over almost level land
covered with dense sage brush
7.00 Road, bears N 80° W. and S. 80° E.
37.35 Set a quartzite stone 15 X 7 X 6 ins. 12
ins. in the ground for 1/4 sec. cor.
marked 1/4 on N. face; raised a
mound of stone 2 ft. base 1½ ft
high N. of cor.
Pits impracticable.
77.35 The cor. of secs 17, 18, 19 and 20.
Land almost level.
Soil 2" rate. clay.
No timber.
Land covered with dense sage-
brush undergrowth 77.35 chs.

From the cor. of secs 17, 18, 19 & 20
Thence Run
N. 0° 03' W. on true line bet. secs 17 & 18
Over almost level land, covered
with dense sagebrush undergrowth
39.00 Road, bears N. 45° E & S 45° W.

Subdivisions T 11 S R 19 W.

40.00	Set a limestone 15 x 7 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
80.00	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for cor. to secs 7. 8. 17 & 18 marked with 5 notches on E. and 4 notches on S. edges, raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Sand level
	Soil, clay and sand, 1" & 2" rate
	No timber
	Land covered with dense sage-brush undergrowth 80.00 chs.
	From the cor. of secs 7. 8. 17 & 18
	Thence run
	E. on random line bet secs 8 & 17.
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect land S line 6 lks S. of cor. of secs 8. 9. 16 & 17.
	Thence run
	S. 89° 57' W. on true line bet. secs 8 & 17.
	Over almost level land, through dense sagebrush undergrowth
6.62	Small stream, flows N. 25° W. 1 lk wide
7.34	Road, bears N. 25° W. and S. 25° E.
	Fence corner bears S. 50 lks dist.
10.00	Fence bears N. 25° W. and S. 25° E.
12.60	" " N. 25° E. & S. 25° W.
14.06	Foot of ascent, bears N. & S.
14.56	Top " " " "
15.80	Irrigation ditch drains N. 25° E.
19.94	Road, bears N. 45° E. & S. 45° W.
21.16	Begin descent into creek bottom bears N. & S.
22.16	Foot of descent into creek bottom

Subdivisions T11S R19W.

Chains bears N19°E.
28.16 Creek 5 lks wide flows N.30° E.
30.64 Irrigation ditch, drains N.30° E.
32.26 Fence, bears N45° E. and S45° W.
33.26 Road, bears " " " " "
Also foot of ascent from creek bottom bears N45° E. and S.45° W.
36.06 Top of ascent from creek bottom bears N45° E. and S45° W.
39.00 Road, bears N20° E. and S.20° W.
40.03 Set a quartzite stone 18x8x8 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stone 2 ft base 1½ ft high N. of cor.
Pits impracticably.
From this point the Indian cabins bear as follows:
Indian Jim's cabin bears S44° E. 12.00 dist.
Indian Pete's cabin bears S29° E 16.00 chs. dist. Indian Charley's cabin bears S19° E. 22. chs dist. and Fish Spring Charley's cabin bears S25° E 28. chs dist.
80.06 The cor of secs 7.8.17&18
Land almost level
Soil, clay and sand 1"&2" rate.
No timber
Land covered with dense sagebrush
undergrowth 48.00 chs.

48.00
32.06

From the cor. of secs. 7.8.17&18
Thence Down
On random line bet. secs 7&18
40.00 Set iron for 1/4 sec. cor.
77.42 Intersect the W. bdy of the Tp at the cor of secs. 7.12.13&18 heretofore described.
Thence Down
On true line bet secs. 7&18

Subdivisions of T. 11 S. R. 19 W.

Chains	
	Over almost level land
	Through dense sagebrush undergrowth.
10.57	Ravine, drains N. 30° W.
37.42	Set a lime stone 18 X 8 X 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
38.32	Ravine, drains N.
42.90	Ravine, drains N. 25° W.
77.42	The cor. of secs. 7. 8. 17 and 18.
	Land almost level
	Soil 1" and 2" rate, clay and sand
	No timber
	Land covered with dense sagebrush undergrowth 77.42 chs.
	Aug 19. 1899.
	From the cor. of secs 7. 8. 17 and 18
	Thence Land
	N. 0° 03' W. on true line bet. secs. 7 and 8.
	Over almost level sagebrush land
40.00	Set a lime stone 15 X 7 X 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
40.38	Road, bears S. 45° E. and N. 45° W.
80.00	Set a quartzyte stone 18 X 8 X 8 ins 12 ins. in the ground for cor. of secs. 5. 6. 7 and 8 marked with 5 notches on the Land E. edges; raised a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.

Subdivisions of T11S. R19W.

Chains	
	Land level bench Soil 2" rate, clay. No timber Land covered with dense sage brush undergrowth 80.00 chs.
	From the cor. of secs. 5, 6, 7 and 8 Thence run N89°57' E. on random line bet. secs. 5 and 8.
40.00	Set temp. 1/4 sec. cor.
80.00	The cor. of secs. 4, 5, 8 and 9 Thence run S89°57' W. on true line bet. secs. 5 and 8 Over level sagebrush bench land.
8.33	Road, bears N20° E. and S20° W.
40.00	Set a quartzite stone 15 X 5 X 7 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable
80.00	The cor. of secs. 5, 6, 7 and 8. Land level bench Soil 1" and 2" rate, clay. No timber Land covered with dense sage brush undergrowth 80.00 chs.
	From the cor. of secs. 5, 6, 7 and 8 Thence run West on random line bet. secs 6 and 7.
40.00	Set temp. 1/4 sec. cor.
77.45	The cor. of secs 1, 6, 7 and 12 on West Bdy of Township, thereto fore described

Subdivisions of T. 11 S R 19 W.

Chains	
	Thence I run
	E. on true line bet. secs. 6 and 7.
	Over level sagebrush bench land.
7.45	Road. to Indian cabins. bears N 60° W and S. 60° E.
37.45	Set a quartzite stone 15×8×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stone 2 ft base 1½ ft high N. of cor.
	Pits impracticable.
77.45	The cor. of secs. 5. 6. 7 and 8.
	Sand level bench.
	Soil 1" and 2" rate, clay.
	No timber
	Sand covered with dense sage brush undergrowth 77.45 chs.
	From the cor. of secs. 5. 6. 7 and 8
	Thence I run
	N 0° 03' W. on true line bet. secs 5 and 6
	Over level sagebrush bench.
40.00	Set a quartzite stone 18×8×8 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stone 2 ft base 1½ ft high W. of cor
	Pits impracticable.
79.60	Intersect W. [illegible] of Tp. 10.20 chs. E. of which is a flint [illegible] 6×8×8 [illegible] not marked [illegible] as described by the [illegible]
	the stand cor of secs. 31 and 32, set a quartzite stone 18×8×6 ins. 12 ins in the ground for closing cor. of secs. 5 and 6 marked C.C. on S. 1 groove on W. and 5 grooves on E. faces; raised a mound of stone 2 ft base 1½ ft. high S. of cor.
	Pits impracticable
	Sand. level bench

Subdivisions of T11 S. R 19 E.

Chains	Soil 1" and 2" rate, clay and sand. No timber Sand covered with dense sagebrush undergrowth 79.60 chs.

Volume
#
R0296

General Description
T. 1 S. R. 19 W.

This tp. consists mainly of bench land for the most part rolling but almost level in the N.W. portion. It is fairly well watered by numerous small streams, and is well timbered in the extreme eastern part of the tp.

From the 1/4 sec. cor. bet. secs 22 & 23 Ibapah peak, one of the highest peaks in Utah being 12101 ft. above sea-level, bears S 40°15' E. From this line I lay off an angle of 90° to the right and run off a base of 40 chs. and measure the angle bet. said base and a line to Ibapah peak which is 80°06'. I am thus enabled to locate the peak.

There is a small Indian village situated in the E 1/2 of secs 8 & 17 and the W. 1/2 of secs. 9 & 16.

They reside in houses not the usual tent or lodge and cultivate small tracts of land using the waters of Fifteen Mile Creek and other adjacent streams for purposes of irrigation. I found indications of iron copper and silver in the S.E. portion of the tp. but not sufficient to return any portion as mineral land.

I could find no trace whatever of the desert entries of John E. Dooly No 1906, Fred Snively No. 1907, R. S. Gash No 1932, J. Matley No 1933. and Frank Baxter No. 1997.

They all seem to have long since been abandoned.

Alonzo J. Stookey
U.S. Deputy Surveyor

Aug 20. 1899.

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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.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

For final affidavits see book N. Tp. 8 S. R. 20 W.

FINAL OATH OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

For final affidavits see book N. Tp. 8 S. R. 20 W.

Subscribed 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 ..... United States Surveyor General for ..... bearing date of the ..... 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, December 30, 1903, 189

The foregoing field notes of the survey of The subdivisional lines of Township 11 South Range 19 West of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

executed by Alonzo J. Stookey under his contract No. 216, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward Anderson
United States Surveyor General.

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

..... *United States Surveyor General.*

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Filed Jan. 3. 1903

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T.

BOOK A-296

FIELD NOTES

OF THE SURVEY OF THE

South Boundary

of

Township 11 South Range 20 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Monzo J. Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct. 29, 1897

Survey commenced Aug 21, 1899

Survey completed July 21, 1899

6—151

Length 0 42.50

Chains 28.87

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward	Chainman
Richard Orr	"
George S Stookey	Moundsman
Roger Millward	Fireman
Roger Millward	Flagman

For preliminary affidavits see book A. Tp 7 S R 6 W

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BOOK A-296

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

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

South Boundary of T 11 S. R 20 W.

Chains	
	Survey commenced Aug 21. 1899 For description of transit etc see "Book A"
	From the cov. of Tps 11 & 12 S. Rs 19 & 20 W. as established by myself thereto fore described Thence I run
	Wo true line bet. secs 1 & 36 up rather steep ascent, through scattering pine, mahogany and cedar timber.
6.58	Top of ridge 600 ft high. bears N. 25° E. and S. 25° W. and begin very steep rocky descent over limestone ledges.
33.23	Hollow, drains N. 50° W. and begin gentle ascent.
37.70	Top of ridge, bears N. 50° W. and S 50° E. and descend.
40.00	Set a quartzite 24 x 10 x 8 ins 18 ins. in the ground for 1/4 sec cov. marked 1/4 on N. face, raised a mound of stone 2 ft base 1 1/2 ft. high N. of cov.
	Pits impracticable.
	A cedar 18 ins. in diameter bears S. 84° W. 06 lks dist. marked 1/4 S 1 B. T.
	A cedar 24 ins. in diameter bears N. 89° E. 12 lks dist. marked 1/4 S 36 B. T.
42.50	Intersect state line bet. Utah and Nevada 28.87 chs. S. of M. P. No 104. which is a cedar post marked and witnessed as described by the Surveyor General.
	Set a quartzite stone 18 x 8 x 6 ins. 12 ins in the ground for closing cov. of Tps 11 and 12 S. Rs 20 W. marked P.C., 1 groove and U. on E. 6 grooves on N and S. and N. on W. faces and raised a mound of stone

South Boundary of T11S R20W.

Chains 2 ft. base 1½ ft. high E. of cor.
Pits impracticable
A cedar 10 ins. in diameter
bears S30°E. 12 lks dist. marked
T12S. R20W. S1. B.T.
A pinion pine 12 ins. in diameter
bears N.45° E. 28 lks dist. marked
T11S. R20W. S36 B.T.
Land mountainous and rough
Soil stony, 3rd rate
Timber scattering cedar pine and
mahogany.
Mountainous land 42.50 chs.

Boundaries of T11S R20W.

Latitude, departures and closing errors.

Line Designated	True Bear	Dist.	Latitude N.	Latitude S.	Departures E.	Departures W.
E. bdy of T11S R20W.	N—	479.60	479.60			
N. " " "	W—	42.37				42.37
Utah & Nevada bdy	S—	480.17		480.17		
S. bdy T11S R20W.	E—	42.50			42.50	
Convergency						.05
Totals			479.60	480.17	42.50	42.42
			479.60		42.42	
Error in lat.				.57	0.08	Error in Dep.

For general description see notes of subdivisions of this Tp.

Alonzo J. Stookey
U.S. Dep. Surveyor.

Aug 21. 1899.

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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.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

For final affidavits see book V. Tp. 8 S. R. 20 W.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ meridian, _____ of _____ which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

For final affidavits see book V. Tp. 8 S. R. 20 W.

Subscribed 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 _____ United States Surveyor General for _____, bearing date of the _____ 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, November 30, 1903, 189

The foregoing field notes of the survey of the South Boundary of Township 11 South Range 20 West of the Salt Lake Base & Meridian, Utah _____ _____ _____ _____ _____ executed by Alonzo J. Stanley under his contract No. 246, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M. Anderson
United States Surveyor General.

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

_____
United States Surveyor General.

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Filed Jan. 3. 1899

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U.

BOOK A-296

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 11 South Range 20 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Moses J. Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced August 21, 1899

Survey completed " 22, 1899

6—151

Mech 2 52 15

Clay 1 26 68

[illegible] 73.00

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward	Chainman
Richard Orr	"
George S. Stookey	Moundman
Roger Millward	Axman
Rooger Millward	Flagman

For preliminary affidavits see book B. Sp 75. R.C.W.

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BOOK A-296

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

..., *Chainman.*

..., *Chainman.*

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

Subdivisions of T11S R20W.

Chains	
	Survey commenced Aug 21, 1899. For description of transit etc see Book "A".
	From the cor. of secs. 25, 30, 31 & 36 as established by myself and heretofore described.
	Thence Run
	N. on true line bet. secs. 25 and 36, gently ascending through thick pine, cedar and mahogany timber
18.00	Top of ridge, bears N. 80° W. and S 80° E.
40.00	Set a quartzyte stone 18×8×8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
	A cedar 18 ins. in diameter bears S. 75° E. 50 lks dist. marked 1/4 S 36 B.T.
	A pine 10 ins. in diameter bears S 38° E. 45 lks dist. marked 1/4 S. 36 B.T.
42.54	Intersect state line bet. Utah and Nevada at a point 21.63 chs. S. of M.P. No 103 which is a cedar post marked and witnessed as described by the Surveyor General.
	Set a quartzyte stone 20×8×6 ins. 15 ins. in the ground for closing cor. of secs 25 and 36 marked C.C., 1 groove and N. on E. 1 groove on S. 5 grooves on N. and N. on W. faces; and raised a mound of stone 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable.
	A pine 8 ins. in diameter bears N. 87° E. 20 lks dist marked

T 11 S. R 20 W. S 25 B. T.
No other trees within limits
Land mountainous
Soil gravelly 3° rate
Timber, cedar pine and mahogany
Mountainous land 42.54 chs.

The falling being above the allowable limit I retrace the state line bet. Mile Posts 103 & 104 and find it to be 73.90 chs. thus proving my work within limits.

From the cor. of secs. 19, 24, 25 and 30 as established by myself and heretofore described.
Thence I run
N. on true line bet. secs. 24 & 25
Overrolling land sloping to the N.W. covered with pine and cedar timber
15.00 Leave timber bears N and S.
17.45 Road, bears N and S.
20.50 Enter cedar timber bears N and S.
31.95 Road bears N. and S.
37.00 Leave timber bears N and S.
40.00 Set a quartzite stone 18 x 10 x 6 ins. 12 ins in the ground for 1/4 sec cor. marked 1/4 on N. face; raised a a mound of stone 2 ft base 1 1/2 ft. high N. of cor.
Pits impracticable
A cedar 10 ins. in diameter bears N. 70° E. 1.20 chs dist. marked 1/4 S. 24 B. T.
A pine 15 ins. in diameter bears N. 35° E. 1.50 chs dist marked 1/4 S. 24 B. T.
40.60 Road bears N. 30° E. and S 30° W.
42.44 Intersect state line bet. Utah and Nevada 21.43 chs. S. of M. P. No 102 which is a cedar post.

Subdivisions of T 11 S R 20 W.

Chains	
	marked and witnessed as described by the Surveyor General.
	Set a quartzite stone 18 X 6 X 6 ins. 12 ins in the ground for closing cor. of secs. 24 and 25. marked C.C., 1 groove and N on E. 2 grooves on S. 4 grooves on N. and N. on W. faces; and raised a mound of stone 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable
	Land gently rolling.
	Soil, gravelly, 2nd rate.
	Timber, cedar and pine
	Land covered with timber, or dense undergrowth 42.47 chs.
	From the cor. of secs. 13, 18, 19 and 24 as established by myself and heretofore described
	Thence run
	N. on true line bet. secs 13 and 24
	Over land almost level covered with dense sagebrush undergrowth
3.00	Spring Creek, course N. 35° W. 10 lks wide
5.74	Road, bears N. 45° W. and S. 45° E.
7.00	Enter scattering cedar timber, bears N. and S.
40.00	Set a quartzite stone 18 X 6 X 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18 X 18 X 12 ins. E. & W. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
	A cedar 12 ins. in diameter bears S. 20° E. 6 lks. dist. marked 1/4 S. 24 B.T.
	A cedar 8 ins. in diameter bears N. 35° W. 24 lks. dist. marked 1/4 S 13 B.T.
42.52	Intersect state line bet. Utah

Subdivisions of T. 11 S. R. 20 W.

Chains	
	and Nevada 21.21 chs. S. of M.P. No 101 which is a cedar post marked and witnessed as described by the Surveyor General.
	Set a quartzite stone 15 x 12 x 8 ins. 10 ins. in the ground for closing cor. of secs 13 and 24. marked C.C., 1 groove and N on E., 3 grooves on N and S., and N on W. faces; dug pits 24 x 18 x 12 ins crosswise on each line N and S. 3 ft. dist. and E. of stone 7 ft. dist. and raised a mound of earth 4 ft base 2 ft high E. of cor.
	A cedar 12 ins in diameter bears S. 18° E. 1.15 chs. dist. marked T. 11 S. R. 20 W. S 24 B.T.
	No other trees within limits
	Land gently sloping N.
	Soil. sandy. B" rate
	Timber scattering cedars
	Land covered with dense under-growth of timber 42.52 chs.
	From the cor. of secs. 7, 12, 13 & 18 as established by myself and heretofore described
	Thence Run
	N. on true line bet. secs. 12 and 13
	Over land almost level covered with dense sagebrush undergrowth
12.90	Road, bears N and S.
40.00	Set a quartzite stone 15 x 8 x 7 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face.
	Dug pits 18 x 18 x 12 ins. E & W. of stone 3 ft dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
42.34	Intersect state line bet. Utah and Nevada 21.18 chs. S. of M.P. No 100. which is a cedar post marked

Chains	and witnessed as described by the Surveyor General.
	Set a quartzite stone 15X8X6 ins. 10 ins. in the ground for closing cor. of secs. 12 and 13 marked C.C., 1 groove and 12 on E., 4 grooves on S and 2 grooves on N. and 12 on W. faces; dug pits 24X18X12 ins. crossing on each line N and S. 3 ft. dist. and E. of stone 7 ft. dist.; and raised a mound of earth 4 ft base 2 ft high E. of cor.
	Land level bench
	Soil sandy, 3" rate
	No timber
	Land covered with dense sage-brush undergrowth 42.34 chs.
	From the cor. of secs. 1, 6, 7 & 12, as established by myself and heretofore described.
	Thence Run
	W. on true line bet. secs. 7 & 12, over level land covered with dense sage brush undergrowth.
9.74	Road, bears N and S.
40.00	Set a quartzite stone 15X8X6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18X18X12 ins. E. and W. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
42.38	Intersect state line bet. Utah and Nevada 21.23 chs. S. of M. P. No 99. which is a cedar post marked and witnessed as described by the Surveyor General.
	Set a quartzite stone 18X8X6 ins. 12 ins. in the ground for closing cor. of secs. 7 & 12; marked C.C., 1 groove and 12 on E. 5 grooves on S. 1 groove

Chains on N. and N. on W. faces: dug pits 24×18×12 ins. crosswise on each line. N. and S. 5 ft. dist. and E. of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft high E. of cor.
Sand level bench.
Soil, sandy 2 rate
No timber
Sand covered with dense undergrowth 42.28 chs.

For Polaris observations in this Tp see notes on W. bdy T11S R19W.

General Description

This Tp. in the south is mountainous and broken, and is covered with a fair growth of pine, cedar and mahogany timber. Towards the north it becomes level and the timber gives place to a dense growth of sagebrush.
There are no traces of mineral in the Tp., it is very poorly watered and contains no settlers.

Alonzo J. Stookey
U.S. Dep. Surveyor.

Aug 21. 1899.

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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.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

Informal affidavits below

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

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

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

Informal affidavits below

.....

Subscribed 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 ..... United States Surveyor General for ....., bearing date of the ..... 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.

For final affidavit see Book W. Ip 58 [illegible]

.....
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, November 30, 1903, 189

The foregoing field notes of the survey of the subdivisional lines of Township 11 South Range 20 West of the Salt Lake Base & Meridian, Utah

executed by Alonzo J. Stookey under his contract No. 26, dated October 29, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

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

.....
United States Surveyor General.

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Filed Jan. 3. 1907

Ex. L. 3. 2. P.

4—670.

V.

BOOK A-296

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

North V Boundary

of

Township 8 South Range 20 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Mary J. Stokes, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced August 24, 1899

Survey completed August 24, 1899

6—151

North B of high 27.21'

Closing 16.30'

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward	Chainman
Richard Orr	"
George S. Stookey	Moundman
Roger Millward	Axeman
Roger Millward	Flagman

For preliminary affidavit see book A. Fp 75 R 6 W

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BOOK A-296

INDEX DIAGRAM.

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain 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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North Boundary T8S R20W.

Chains

Survey commenced Aug 24.1899 for description of transit etc. see Book "G."
At the cor. of Tps 7 and 8 S. Rs 19 and 20 W. which is a limestone 6 x 12 x 10 ins. above ground marked and witnessed as described by the Surveyor General.
I observe Polaris at eastern elongation at 9h 14 pm. l m.t in accordance with the Manual of instructions and mark the line thus determined by a tack driven in a wooden plug set in the ground 5.00 N. of my station

Aug 24.1899 at 7.00 a m I lay off the Azimuth of Polaris 1°37' to the west and mark the true Meridian thus determined by driving a tack into a wooden plug firmly set in the ground W. of the mark established last night.
The magnetic bearing of said true meridian is N. 17°22' W. which reduced by the table on page 100 of the Manual, gives the mean magnetic declination 17°16' E.

From the meridian thus determined I lay off an angle of 90°00' to the W.
Thence I run
W. on true line bet. secs 1 and 36 over rolling ground through scattering cedar timber and dense sagebrush undergrowth

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N. Boundary T. 8 S R 20 W.

Chains	
27.21	Intersect the State line bet. Utah and Nevada 16.30 chs. S. of M.T. No 80. which is a cedar post marked and witnessed as described by the Surveyor General. Set a limestone 15 x 10 x 8 ins. 10 ins. in the ground for closing cor. of secs. 1 and 36 marked C C. on E. with 6 grooves on N and S. faces dug pits 30 x 24 x 12 ins crosswise on each line N. and S. 4 ft. and E. of stone 8 ft dist. and raised a mound of earth 5 ft base 2½ ft high P. of cor. this stone was also marked U. on E. and N. on W. faces. A cedar 10 ins. in diameter bears N 15° E. 75 lks dist. marked T 7 S. R 20 W. S 36 B.T. A cedar 2 ft. in diameter bears S. 75° E. 82 lks. dist. marked T 8 S. R 20 W. S 1. B.T. Land rolling and slightly broken Soil. clay and gravel State Timber scattering cedar. Land covered with dense undergrowth 27.21 chs.

Line Designated	True Bearing	Dist.	Latitude N	Latitude S	Departure E.	Departure W.
E. bdy. T8S R20W.	N. 0°07' E.	320.00	320.00		.68	
" " " "	N. 3°15' W.	43.30	43.23			2.46
" " " "	N. —	39.99	39.99			
" " " "	N. 0°17' E.	79.70	79.70		.39	
N. " " "	W. —	27.21				27.21
Utah & Nevada bdy line	S. —	483.70		483.70		
S. bdy. T8S R20W.	E. —	28.56			28.56	
Convergency						0.03
Totals			482.92	483.70	29.63	29.70
				482.92		29.63
Error in latitude				0.78	Error in Dep.	0.07

For General Description see notes of subdivisions

Aug 24, 1899.

Alonzo J. Stockey
U.S. Dep. 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 S.W. & N. bdys. T. 7 S. R. 6 W., the N. & S. bdy. T. 7 S. R. 7 W., the W. bdy. T. 6 S. R. 6 W., W. & N. bdy. T. 5 S. R. 6 W., the N. bdy. T. 5 S. R. 7 W., the E. & S. bdy. of T. 12 S. R. 17 W., the E. bdy. T. 11 S. R. 19 W., the S. & W. bdy. T. 11 S. R. 19 W., the S. bdy. T. 11 S. R. 20 W. and the N. bdy. T. 8 S. R. 20 W. Salt Lake Base & Meridian showing the respective capacities in which they acted:

Hyrum Millward, Chainman.
Richard Orr, Chainman.
G. S. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, 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 S.W. & N. bdys. T. 7 S. R. 6 W., the N. & S. bdys. T. 7 S. R. 7 W., the W. bdy. T. 6 S. R. 6 W., the W. & N. bdys. T. 5 S. R. 6 W., the N. bdy. T. 5 S. R. 7 W., the E. & S. bdys. T. 12 S. R. 17 W., the E. bdy. T. 11 S. R. 19 W., the S. & W. bdy. T. 11 S. R. 19 W., the S. bdy. T. 11 S. R. 20 W. & the N. bdy. T. 8 S. R. 20 W. of the Salt Lake Base & 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

Hyrum Millward, Chainman.
Richard Orr, Chainman.
G. S. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, Flagman.

Subscribed and sworn to before me this 24 day of August, 1899

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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BOOK A-296

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 Jacob B. Blair United States Surveyor General for Utah, bearing date of 29 day of October, 1897, 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 S.W.&N. bdys. T7S R6W the N&S bdys T7S R7W, the W bdy T6S R6W, the W&N bdy T5S R6W, the N bdy T5S R7W, the E&S bdys T12S R17W, E bdy T11S R19W, the S&W bdy T11S R19W, the S bdy T11S R20W and the N bdy T8S R20W of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes in book A.C. F.I.K.M.Q.R.T.&V 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; 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.

Alonzo J Stookey
United States Deputy Surv

Subscribed by said Alonzo J Stookey, and sworn to before me this 3rd day of January, 1902

Edward H Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah November 30 1902

The foregoing field notes of the survey of the North Boundary of Township 8 South Range 20 West of the Salt Lake Base and Meridian, Utah

executed by Alonzo J Stookey under his contract No. 216, dated October 29, 1897, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Edward H Anderson
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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Ent. J.L.P.

4—679.

W.

BOOK A-296

R.S.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 8 South Range 20 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Alonzo J. Stookey, United States Deputy Surveyor,

Under his Contract No. 216, dated Oct 29, 1897

Survey commenced August 24, 1899

Survey completed August 24, 1899

6—151

High 1-63.34

Clay 1-21.82

Reservoir E Bdy high 2 02 99

Rt [illegible] 79.15

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Hyrum Millward Chainman
Richard Orr "
George S. Stookey Moundman
Roger Millward Axeman
Roger Millward Flagman

For preliminary affidavit see book B. Ff. 7 S. R.C.W.

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BOOK A-296

INDEX DIAGRAM.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level
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 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 ....., 189

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 ....., 189

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 ....., 189

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 .....

..... *Flagmar*

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

SEAL

.....

.....

Subdivisions of T 8 S. R 20 W.

Chains	
	Survey commenced Aug 24. 1899. for description of transit etc see "Book "A."
	I commence at the cor. of secs. 25 30 31 & 36 Tp 8 S. Rs 19 and 20 W. which is a granite stone 10x10x10 ins. above ground marked and witnessed as described by the Surveyor General.
	Thence I run
	West on true line bet. secs 25 and 36 over land sloping slightly to the S. E.
28.81	Intersect the state line bet. Utah and Nevada 20.62 chs S. of M. P. No 86, which is a cedar post marked and witnessed as described by the Surveyor General.
	Set a lava stone 15x10x7 ins. 10 ins. in the ground for closing cor. of secs 25 and 36. marked C. Cr. and 1 groove on E. with 1 groove on S. and 5 grooves on N. and U on E. and U on W. faces; dug pits 24x18x12 ins crosswise on each line N. and S. 3 ft. and E. of stone 7 ft. dist and raised a mound of earth 4 ft base 2 ft high E. of cor.
	Sand almost level
	Soil, clay and sand 3" rate
	No timber
	Sand covered with dense under-growth 28.81 chains.

3

Subdivisions of T 8 S R 20 W

Chains From the cor. of secs. 19, 24, 25 and 30 which is a granite stone 4x8x7 ins. above ground marked and witnessed as described by the Surveyor General Thence Drum.
N. on true line bet. secs. 24 and 25 over ground sloping slightly to the N. E.
29.15 Intersect the state line bet. Utah and Nevada 20.68 chs. S. of M. P. No 84 which is a cedar post marked and witnessed as described by the Surveyor General.
Set a lava stone 15x10x7 ins. 10 ins. in the ground for closing cor. of secs 24 and 25. marked C.C. and 1 groove on E with 2 grooves on S and 4 grooves on N and N on E and N on S faces; dug pits 24x18x12 ins crosswise on each line N and S. 3 ft. and E. of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E. of cor.
Land almost level.
Soil clay and sand 3" rate
No timber.
Land covered with dense undergrowth 29.15 chs.

From the cor. of secs. 13, 18, 19 and 24 which is a granite stone 7x7x5 ins. above ground marked and witnessed as described by the Surveyor General Thence Drum
N. on true line bet. secs 13 and 24 over undulating ground
29.28 Intersect the state line bet. Utah and Nevada 20.30 chs. S.

Subdivisions of T 8 S R 20 W.

of M. P. No 83 which is a cedar post marked and witnessed as described by the Surveyor General.
Set a lava stone 15×8×6 ins. 10 ins. in the ground for closing cor. of secs 13 and 24. marked C.C. and 1 groove on E with 3 grooves on N and S and N on E and N on S faces; dug pits 24×18×12 ins. crosswise on each line N. and S 3 ft. and E of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft. high E of cor.
Sand slightly undulating.
Soil sand and clay. 3" rate
Timber. few scattering cedars
Sand covered with dense under-growth 29.28 chs.

From the cor. of secs. 7.12.13 and 18 which is a granite stone 10×12×10 ins. above ground marked and witnessed as described by the Surveyor General.
Thence
N. on true line bet. secs. 12 and 13 over gently rolling ground through scattering cedars.
29.31 Intersect the state line 30.15 chs.
S. of M. P. No 83 which is a cedar post marked and witnessed as described by the Surveyor General.
Set a lava stone 15×10×6 ins. 15 ins. in the ground for closing cor. of secs. 12 and 13. marked C.C. and 1 groove on E with 4 grooves on S and 2 grooves on N and N on S and N on E faces; dug pits 24×18×12 ins.

Subdivisions of T8S R20W

Chains	crosswise on each line N. and S. 3 ft. and E. of stone 7 ft. dist. and raised a mound of earth 4 ft. base 2 ft high E. of cor.
	Sand slightly rolling.
	Soil, clay and sand. 3" rate
	Timber, few scattering cedars
	Sand covered with dense under-growth 29.31 chs.
	Knowing from previous retracements that the survey of the west side of sec. 7. T8 R19 W is erroneous both in alignment and measurement, I proceed as follows
	From the cor. of secs. 7 and 18. T8S. R19W. already described.
	Thence I run
	N. 3°15' W. on true line for the 1/4 sec. cor. of sec 7.
40.06	Set a limestone 15×8×6 ins. 10 ins. in the ground for 1/4 sec. cor. for sec. 12. T8S. R20W. marked 1/4 on W. face, raised a mound of stone 2 ft. base 1 1/2 ft high W. of cor.
	Pits impracticable.
43.30	The 1/4 sec. cor. for sec 7. which is a limestone 6×10×8 ins. ~~ins~~ above ground marked and witnessed as described by the Surveyor General, which I remark as the 1/4 cor of sec 7. only
	Thence I run
	N. on true line with continuous measurements
80.06	Set a limestone 15×8×6 ins. 10 ins. in the ground for cor. of secs 1 and 12 marked with 1 notches on the N. and 5 notches on the S. edges.
	Raised a mound of stone 2 ft base

Subdivisions of T. 8 S. R. 20 W.

Chains 1½ ft high W. of cor.
Pits impracticable.
From this cor. the cor. of secs 6 and 7 bears N. 3.23 chs. dist. and from which & obliterate all marks pertaining to secs. 1 and 12. T. 8 S. R. 20 W.
Sand, slightly rolling.
Soil clay and sand, 3" rate
Timber, few scattering cedars.
Sand covered with dense under-growth 80.06 chs.

From the cor. of secs. 1 and 12 as set by myself & heretofore described
Thence Drum
N. on true line bet. secs. 1 and 12.
Over ground almost level.
26.81 Intersect state line bet. Utah and Nevada 20.07 chs. S. of M. P. No. 1 which is a cedar post marked and witnessed as described by the Surveyor General.
Set a limestone 16 x 7 x 6 ins. 12 ins in the ground for closing cor. of secs 1 and 12. marked C.C. on E. with 1 groove on N and 5 grooves on S. facis; dug pits 24 x 18 x 12 ins. crosswise on each line N. and S 3 ft. and E. of stone 7 ft dist. and raised a mound of earth 4 ft. base 2 ft high E. of cor.
Sand almost level
Soil, clay and sand 3" rate
No timber.
Sand covered with dense undergrowth 26.81 chs.

Subdivisions of T 8 S. R 20 W.

Chains

Knowing from previous retracements that the W. bdy. of sec 6. T 8 S R 19 W. is erroneous both in alinement and measurement, I proceed as follows:

From the cor. of secs 1 and 12 T. 8. S. R 20 W as set by myself.

Thence I run

N. on true line over gently rolling ground

3.23 The cor. of secs. 6 and 7. T 8 S. R 19 W.

Thence I run with continuous measurements.

N 0°17' E. on true line for a flag previously set at the cor. of Tps 7 and 8 S. Rs 19 and 20 W. which is plainly visible.

40.00 Set a limestone 15 x 8 x 6 ins. 10 ins in the ground for 1/4 sec. cor. of sec 1. T 8 S R 20 W. marked 1/4 on W. face raised a mound of stone 2 ft base 1½ ft high W. of cor.

Pits impracticable.

43.23 The 1/4 sec. cor. of sec 6, T 8 S R 19 W, which is a cedar post 2 ft high marked and witnessed as described by the Surveyor General. which I remark for check

82.93 The cor. of Tps 7 and 8 S. Rs 19 and 20 W. lime stone described

Land slightly rolling

Soil, sandy, 3rd rate

Timber scattering cedar

Land covered with dense under-growth 82.93 chs.

Subdivisions of T 8 S R 20 W.

Chains	My closing distance on M. P. No 81 is 20.07 while on M. P. No 80 it is 16.30 and after retracing the W. bdy. of sec. 6. T 8 S. R 19 W. I am still out of limit.
	I then proceed as follows:
	From M. P. No 81.
	Thence Run
	N. on random line
79.15	M. P. No 80. which proves my work within limits.
	Still finding that my exterior lines will not close within limits I set a flag at the S W cor. of T 8 S R 19 W. and setting my transit at the cor. of sec 7. 12, 13 and 18 from which point the flag is plainly visible. I take the course of the line bet. my transit and the flag and find it to be S. 0° 07' W.
	For Polaris observation this Tp. see notes on N. bdy.

General Description.

This Tp. is mainly level land in the south, and becomes slightly rolling toward the north.
There are a few scattering cedars in the north and the whole Tp. is covered with a dense growth of sagebrush undergrowth.
There are no springs or other bodies of water on this tp. and while the soil is of fair quality it has no settlers. There are no indications of mineral in this Tp.

Aug 24. 1899.

Alonzo J. Stookey
U.S. Deputy Surveyor.

Note:- There being no notary public or other officer authorized to administer oaths within reasonable distance at the completion of this survey, therefore in order to save time and expense I administer the final oaths myself.

Alonzo J. Stookey
U.S. Deputy Surveyor.

Throughout this survey there are a number of cases where the requisite number of bearing trees could not be found within limits in each of the two, three, or four secs. as the case might be.

In all such cases the number of bearing trees required have been marked even if some of the sections contained no trees, thus making two or three bearing appear in one section when no trees were within limits in the other.

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 T7S R6W, T7S R7W, T6S R6W, T6S R7W, T5S R6W, T5S R7W, T12S R17W, T11S R19W, T11S R20W and T8S R20W Salt Lake Base & Meridian showing the respective capacities in which they acted:

Hyrum Millward, Chainman.
Richard Orr, Chainman.
G. L. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, 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 T7S R6W, T7S R7W, T6S R6W, T6S R7W, T5S R6W, T5S R7W, T12S R17W, T11S R19W, T11S R20W and T8S R20W 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.

Hyrum Millward, Chainman.
Richard Orr, Chainman.
G. L. Stookey, Moundman.
, Moundman.
Roger Millward, Axman.
, Axman.
Roger Millward, Flagman.

Subscribed and sworn to before me this 24 day of August, 1899

SEAL

Alonzo J. Stookey
U. S. Deputy Surveyor

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BOOK A-296

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 Jacob B. Blair United States Surveyor General for Utah, bearing date of 29 day of October, 1897, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surv General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivisions of T7S R 6W, T7S R 7W, T6S R 6W, T6S R 7W, T5S R 6W, T5S R 7W, T12S R 17W, T11S R 19W, T11S R 20W and T8S R 20W of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes in books B.D.S.H.J.L.P.S.U.W. 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; 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.

Alonzo J. Stookey
United States Deputy Surve

Subscribed by said Alonzo J. Stookey, and sworn to before me this 3d day of January 1903

Edward H. Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 30 1903, 18

The foregoing field notes of the survey of the subdivisional lines of Township 8 South Range 20 West of the Salt Lake Base & Meridian Utah

executed by Alonzo J. Stookey under his contract No. 26, dated October 29, 1897, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Gene

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

United States Surveyor Gene

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BOOK A-296

FIELD NOTES

OF THE ~~SURVEY~~ resurvey OF THE

SOUTH BOUNDARY OF

Township NO.28 S., Range No.4 East,

Of the Salt Lake Base and *Meridian,*

in the state of Utah.

AS SURVEYED BY

Harvey D.Heist, *United States Deputy Surveyor,*

er his Contract No. 251, *dated* February 12,1902. *189*

ey commenced September 3,1902. *189*

ey completed September 5,1902. *189*

Primary - 5 - Bdy. Lights 3-26-10 ✓
" " Lows 2-04-07 ✓

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

William Walquist	Chainman
Earl V.Woolley	"
Arthur N.Munger	Moundman
Oley Sorenson	"
Harry Payne	Axman
Harry Payne	Flagman

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BOOK A-296

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, William Walquist and Earl V. Woolley 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 resurvey of the S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and Meridian Utah.

William O. Walquist, Chainman.
Earl V. Woolley, Chainman.

Subscribed and sworn to before me this 3rd. day of September, 1902., 189

Harvey D. Hurst
U.S. Deputy Surveyor

SEAL

We, Arthur N. Munger and Oley Sorenson 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 S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and Meridian, Utah.

Arthur N. Munger, Moundman.
Oley Sorenson, Moundman.

Subscribed and sworn to before me this 3rd. day of September, 1902., 189

Harvey D. Hurst
U.S. Deputy Surveyor

SEAL

~~We,~~ I, Harry Payne and ~~do solemnly swear that we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the resurvey of the S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Axman.
..., Axman.

Subscribed and sworn to before me this 3rd. day of September, 1902., 189

Harvey D. Hurst
U.S. Deputy Surveyor

SEAL

I, Harry Payne, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of the S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Flagman.

Subscribed and sworn to before me this 3rd. day of September, 1902., 189

Harvey D. Hurst
U.S. Deputy Surveyor

SEAL

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-I-

Retracement of the South bdy.of T.28.S.,R.4E.

Survey commenced,September 3rd.1902.,and executed with a W.& L.E.Gurley light mountain transit,No-with solar attachment,the horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc. The instrument was examined,tested on the true meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,May 27th,1902.

I examine the adjustment of the instrument and find them correct,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 m meridian determined by observation on Polaris,I proceed as follows:

At the cor.of Tps.28and29S.,Rs.4and5E.lat38°19'57"N.; long.111°27'21"W.,I set off 38°20'N.on the lat.arc: 7°39'N.onthe decl.arc;and at 4h0m.p.m.,l.m.t.,determine with the solar a meridian and mark a point there of, on a stone set firmly in the ground,five chains N.of the cor.

At 8h.39m.,p.m.,l.m.t.,I observe polaris at eastern elongation,in accordance with the manual of instructions,and mark a point in line thus determined on a peg driven in the ground, 5chs.N.of my station.

September 3rd. 1902.

September4th.1902.,At 7 a.m.,l.m.t.,I lay off the azimuth of Polaris,1°33' to the W. and mark the meridian thus determined,by cutting a small groove in the stone set September 3rd.,on which the meridian falls 0.4 ins. east of the mark determined by the solar. At 8h.0m.a.m.,l.m.t.,I set off 38°20'N. on the lat.arc;7°25'N.on the decl.arc;and mark a point in the meridian determined with the solar,by a cross on the rock already in place 5 chs. N. of my station; this falls 0.3 ins. E. of the meridian established

by the Polaris observation.

The solar apparatus,by p.m.and a.m. observations,defines positions for meridians,respectively about 0'2I"W.and 0'I6"E. of the meridian established by the Polaris observation;therefore,I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian,at 8h.0m.a.m.,l.m.t.,is N.I5°30'W.the angle thus determined gives the mag.decl.I5°30'E.

From said Tp.cor.which is a trachyte stone 20XI2XI2 ins above ground firmly set and marked as described by the surveyor general,I retrace W.on the S.bdy.of the Tp.bet.secs.I and 36;and at 40.00 chs.after dilligent search no trace of the old ¼ sec.cor. can be found, therefore,I continue the retracement and find no cors. until at 440.17 chs.,fall 26 lks.S.of the ¼ sec. cor.bet.secs.6 and 3I,which is a trachyte stone I4XI2 XI2 ins.above ground firmly set and marked as described by the surveyor general,the bearing trees have been destroyed;Iremark trees as follows;A pinon 8 ins. in diam.bears N.23°W.25 lks.dist.marked ¼S31 BT.,A pinon 8ins.in diam.bears S.I3°W.30lks.dist., marked ¼S6 BT. The course of this line is therefore N.89°58'W.,and the dist.440.I7 chs.

As all the cors.are missing I resurvey the S.bdy.of the Tp.as follows;

September 4th.I902.

September 5th.I902.

At 8h.Am.,l.m.t.,I set off 38°20'N. on the lat.arc; 7°02'N. on the decl.arc;.and determine a true meridian with the solar at the cor.of Tps.28 and 29 S. Rs.4 and 5 E., heretofore described,

Thence I run

Resurvey of the South boundary of T.28 S.,R.4 E.

chains

N.89°58'W.on resurvey

along the south boundary of the Tp.bet.secs.I and 36.

Ascend over rolling stony land,

25.00 Brush and stone fence bears N.E.and S.W.

38.75 Same fence N.W. and S.E.

40.01½ After dilligent search no trace of the old ¼ sec.cor. can be found,seta trachyte stone I8XI2X8 ins.I2 ins. in the ground for reestablished ¼ sec. cor.marked ¼ s on the N. face; and raised a mound of stone 2 ft base,I½ ft high, N. of cor. Pits impracticable.

William A.Holt's house,bears N.50°W.I0 chains dist.

45.00 Enter scattering cedar & pinon timber,bears N.& S.

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

80.03 After dilligent search no trace of the old sec. cor. can be found,set a trachyte stone I5XI5XI2 ins.I0 ins. in the ground for reestablished cor. to sec. I,2,35 and 36,marked with I notch on the east and 5 notches on the west. , and raised a mound of stone 2 ft.base,I½ ft.high west of cor.Pits impracticable.

Land, rolling.

Soil,stony; 3rd.rate.

Timber, scattering cedar and pinon.

N.89°58'W.on resurvey

along the south boundary of Tp.bet.secs.2 and 35.

Descend over broken land,through scattering cedar.

I.00 Ravine I00 ft.deep course,S.E. ,ascend.

9.50 Foot of sand-stone ledge,25 ft.high bears N.W.and S.E.

I0.50 Top of ridge, 250 ft. high, bears N.W. and S.E. descend.

29.00 Ravine, 200 ft. deep, course S.E. ascend.

37.75 Dry run,3X3ft. course S.E.

40.01½ After dilligent search no trace of the old ¼ sec.cor. can be found,set a trachyte stone 20XI5XI0 ins.I5 ins. in the ground for reestablished ¼ sec. cor.

Resurvey of the South boundary of T.28 S.,R.4 E.

chains	
	marked ¼ on N.face,from which a pinon tree 5 ins. in diameter, bears S.45°E. I4 lks.,marked ¼S. 2, B T; no other bearing trees within limits; raise a mound of stone 2ft.base, 1½ ft. high, north of cor. Pits impracticable.
67.50	Top of ridge, bears N.and S. descend.
77.90	Brown's creek,3 lks. wide,course S.E. ascend.
80.03	After dilligent search no trace of the old sec. cor. can be found, set a sandstone I4XI0 X7 ins.I0 ins. in the ground for reestablished cor.to sec. 2,3,34 and 35 marked with 2 notches on the east and 4 notches on the west edges,and raise a mound of stone 2 ft. base, 1½ feet high, west of cor. Pits impractiable.
	Land,mountainous.
	Soil,stony;3rd. rate.
	Timber, scattering cedar.
	Mountainous land, 80.03 chains.
	September 5 :At this cor. I set off 6°58'N.on the decl. arc;and,at II-58 l.m.t.,observe the sun on the meridian;the resulting latitude is 38° 20' N.
	N.89°58'W on resurvey along the south bdy. of theTp. bet.secs.3 and 34.
	Ascend over broken land,through scattering cedar and pinon timber.
I4.50	Ridge,bears N.W.and S.E. descend.
40.0I½	After dilligent search no trace of the old ¼ sec.cor. can be found,set a trachyte I6XI2X5 ins.II ins. in the ground for reestablished ¼ sec. cor.,marked ¼S on N. face, from which a pinon tree I0 ins. in diam. bears N.62°E. 56 lks.dist.marked ¼S34 B T, a pinon 6 ins. in diam.bears S.8°W. 25 lks. marked ¼S 3 B T.
45.00	Ravine,40 ft. deep,course S.E. ascend.
52.00	Spur,projects N.E. descend.
80.03	After dilligent search no trace of the old cor.

Resurvey of the South boundary of T.28 S.,R.4 E.

chains	
	can be found,set a sand stone I8XI2X6 ins.I2 ins in the ground for reestablished cor. to secs.3,4,33and 34.marked with 3 notches on the E.andW. edges and raise a mound of stone 2ft.base,1½ft.high,W.of cor. Pits impracticable.
	Land,broken.
	Soil,stony,3rd.rate.
	Timber,scattering cedar and pinon.
	N.89°58'W.on resurvey
	along the S.bdy. of Tp. bet.secs.4 and 33, Ascend over broken sand stone ledges,bearing N. and S.
6.00	Enter heavy timber,bears N.andS.cedar and pinon.
39.25	Dry run,3X2ft.,course N.E.
40.01½	After dilligent search no trace of the old cor. can be found,set a trachyte stone I8XI4X5 ins.I2 ins. in the ground,for reestablished ¼ sec.cor. marked ¼S on N.face,from which a pinon I0 ins in diam. bears N. I25 lks.,marked ¼S 33 BT.A cedar 9 ins. in diam. bears S.8°E 20 lks dist.marked ¼S4 BT.
80.03	After dilligent search no trace of the old sec.cor. can be found,set a sand stone I4X I2X8 ins. I0 ins. in the ground for re-established cor. to secs. 4,5, 32 and 33, marked with 2 notches on the W. and 4 notches on the E. edges,from which acedar 6 ins. in diam. bears N.I8°E.62 lks.dist.,marked T28S R4E S33 BT.,A pinon I0 ins.in diam.bears S.72°E.39 lks.dist. marked T29S R4E S4 BT.A cedar I0 ins.in diam.bears S.68°W.3I lks.dist.marked T29S R4E S5 BT.A pinon 6 in ins.in diam.bears N.26°W. 35 lks.dist.marked T28S R4E S32 BT.
	Land,broken.
	Soil,stony,3rd.rate.
	Timber,heavy cedar and pinon.
	Heavily timbered, 76.03 chains.

Resurvey of the South boundary of T.28 S.,R.4 E.

chains

N.89°58'W on resurvey

along the south bdy.of Tp.bet.secs.5and32over broken land,through heavy cedar and pinon timber.

7.00 Head of ravine,course S.75°E.ascend.

27.75 Top of sand stone ledge,300ft.high,leave timber,bears N.and S.

39.00 Top of ridge and mountain,bears N.and S.descend.

40.01½ After dilligent search no trace of the old cor can be found,set a sand stone I8XI2XI0 ins. I2 ins. in the ground for re-established ¼ sec.cor. marked ¼S on the N. face, from which a pinon I5 ins.in diam.bears N.72°E.29 lks.dist. marked ¼S 32 BT. Apinon I2 ins.in diam.bears N.3°E. 32 lks.dist.marked ¼S 32 BT.

62.50 Descend over broken sand stone ledges,bears N.andS.

73.00 Foot of same ledges,300ft.high,leave timber bears N&S.

80.03 After dilligent search no trace of the old sec.cor. can be found,set a sand stone I6XI2X9 ins.II ins.in the ground for re-established cor.to secs.5,6,3I and 32,marked with 5 notches on the E. and one notch on the W. edges, and raise a mound of stone 2 ft. base, I½ft. high,W. of cor. Pits impracticable.

Land,mountainous.

Soil,stony,,3rd.rate.

Timber,cedar and pinon.

Mountainous land *or* heavily timbered, 80.03 chains.

—

N.89°58'W. on resurvey

along the S.bdy.of Tp.bet.secs.6 and 3I.

Descending over broken sand stone ledges bearing N.& S.

28.50 Bottom of canon,600 ft. below mountain,course S.W. ascend through cedar and pinon timber,bears N.and S.

3I.00 Leave sand stone formation,bears N.and S.

40.02½ The ¼ sec.cor.on the S.bdy.of Tp.bet.secs.6 and 3I heretofore described.

Land,mountainous.

Resurvey of the South boundary of T.28 S.,R.4 E.

Soil,stony.

Timber,cedar and pinon.

Mountainous land,40.02 chains.

September 5th.1902.

Note; For general discription,see subdivision of this township.

Harvey L. Keist

U.S.Deputy surveyor.

There being no notary public or other officer authorized to administer oaths within a reasonable distance at the beginning or ending of this survey in order to save time and expense,I administer the preliminary and final oaths,myself.

Harvey L. Keist

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 marking the lines and corners described in the foregoing field notes of the re-survey of the S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

William Walquist, *Chainman.*
Earl V. Woolley, *Chainman.*
Arthur H. Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
Axman.
Harry Payne, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist United States Deputy Surveyor, in re-surveying all those parts or portions of the S.Bdy. of T.28 S., R.4 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been re-surveyed by him and under his direction; and that said re-survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

William O. Walquist, Chainman.
Earl V. Woolley, Chainman.
Arthur H. Munger, Moundman.
Oley Sorensen, Moundman.
Harry Payne, Axman.
Axman.
Harry Payne, Flagman.

Subscribed and sworn to before me this 5th. day of September, 1902, 189

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, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 12th. day of February, 1902, 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 Utah, the Manual of Surveying Instructions, and the laws of the United States, re surveyed all those parts or portions of the S. Bdy. of T. 28 S., R. 4 E. of the Salt Lake Base and meridian, in the state of Utah., which are represented in the foregoing field notes as having been re surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said re survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such re 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.

Harvey D. Heist
United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1903, 189

Edward H. Anderson
Surveyor-General of Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26 1904, 189

The foregoing field notes of the re survey of South Boundary of Township 28 South Range 4 East of the Salt Lake Base & Meridian Utah

executed by Harvey D. Heist under his contract No. 251, dated February 12 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the re surveys they describe, are hereby approved.

Edward H. Anderson
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-296

FIELD NOTES

OF THE SURVEY OF THE

E-A-S-T B-O-U-N-D-A-R-Y

of

Township No. 28 South, Range No. 4 East.

Of the Salt Lake Base and *Meridian,*

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist, *United States Deputy Surveyor,*

Under his Contract No. 251, *dated* February 12, 1902

Survey commenced September 6, 1902. *189*

Survey completed September 6, 1902. *189*

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BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

William Walquist	Chainman
Earl V.Woolley	"
Arthur H.Munger	Moundman
Olev Sorenson	"
Harry Payne	Axman
Harry Payne	Flagman

BOOK A-296

INDEX DIAGRAM.

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, William Walquist and Earl V. Woolley 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 E.Bdy.T.28 S.,R.4 E.,and the N.and E.Bdys.of T.30.S., R.3 E. of the Salt Lake Base and Meridian, Utah.

William Walquist, Chainman.
Earl V. Woolley, Chainman.

Subscribed and sworn to before me this 6th. day of September, 1902., 189

SEAL

Harvey L. Reist
U.S. Deputy Surveyor

We, Arthur N. Munger and Oley Sorenson do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the E.Bdy.of T.28 S.,R.4 E.,and the N.and E.Bdys.of T.30 S.,R.3 E. of the Salt Lake Base and Meridian, Utah.

Arthur N. Munger, Moundman.
Oley Sorenson, Moundman.

Subscribed and sworn to before me this 6th. day of September, 1902., 189

SEAL

Harvey L. Reist
U.S. Deputy Surveyor

~~We~~, I, Harry Payne ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the E.Bdy.of T.28 S.,R.4 E.,and the N.and E.Bdys.of T.30 S.,R.3 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Axman.
, Axman.

Subscribed and sworn to before me this 6th. day of September, 1902., 189

SEAL

Harvey L. Reist
U.S. Deputy Surveyor

I, Harry Payne, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the E.Bdy.of T.28 S.,R.4 E.,and N.&.E.Bdys.of T.30 S.,R.3 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Flagman.

Subscribed and sworn to before me this 6th. day of September, 1902., 189

SEAL

Harvey L. Reist
U.S. Deputy Surveyor

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East boundary of T.28 S., R.4 E.

chains

Survey commenced, September 6, 1902.

and executed with the instrument described in book "A" of this survey.

I know the instrument to be in adjustment from recent test made at the cor. of Tps.28 and 29 S., Rs.4and 5 E. and recorded in book"A"

At the cor. of TPs.28 and 29 S.,Rs.4and 5 E.,heretofore described, I set off 38°20'N.on lat.arc; 6°40'N. on decl.arc; and at [illegible], determine a true meridian with the solar, thence I run

North on the East bdy. of Tp.,bet. secs.31 and 36.

Ascend over rocky land.

3.00 Spur, projects east, descend.

4.35 Enter bottom land,bears east and west.

4.65 Wash 2[illegible]X20 ft. course east,

5.00 Wash 20X20 ft.,course east.

20.00 Bottom of Heath canon course east, ascend.

20.40 Begin abrupt ascent, over broken sand stone ledges, bears east and west.

40.00 Point for ¼ sec. cor. falls on steep slope subjects to slide and is not set.

43.05 Set a sand stone 40X18X10 ins.30 ins. in the ground and mound of rock, for W.C. cor. to ¼ sec. cor. marked W c ¼ on the west face,raise a mound of stone 2 ft. base, 1½ ft. high west of cor. Pits impracticable.

49.10 Sand stone spur ridge,800 ft. above sec. cor. bears N.W. and S.E. descend.

76.10 South side of box canon, bears east and west.

79.00 bottom of canon, 500 ft. deep , course east.ascend.

80.00 Set a sand stone 15X12X10 ins. 10 ins. in the ground for cor.of secs. 25,30,31 and 36, marked with one notch on the south and 5 notches on the north edges, raise a mound of stone 2 ft. base, 1½ ft. high west of cor. Pits impracticable.

East boundary of T.28 S.,R.4 E.

chains	
	Land, mountainous.
	Soil,stony,3 rd. and 4 th. rate.
	No timber.
	Mountainous land, 80.00 chains.
	—
	North,bet. secs. 25 and 30.
	ascending over broken sand stone ledges,bearing aast and west.
3.50	North side of canon, 500 ft deep,bears E.& W.descend.
I6.00	Bottom of ravine,200 ft,deep,course S.E.ascend.
40.00	Ridge, bears N.W. and S.E. descend.
	Set a sandstone I4XI3XI0 ins. I0 ins. in the ground for ¼ sec. cor.marked ¼ S on the west face,raise a mound of stone 2 ft. base, 1½ ft. high west of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, stony, 4 th. rate.
	No timber.
	Mountainous land, 40.00 chains.
	Note;On account of high broken sand stone ledges and worthless land, I discontinue further survey on this line.
	September 6th. I902.
	Note;for general discription,see,subdivision of this township.
	Harvey dl. Kirst
	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:

In final affidavits see book D. Tp 30 SR 3 E

....., *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 .....

In final affidavits see book D. Tp 30 SR 3 E

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed 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 ..... United States Surveyor General for ....., bearing date of the ..... 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.

In final official seal book D. 1 p. 308 P. 3 E.

.....
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, February 26 1904, 189

The foregoing field notes of the survey of the East Boundary Township 28 South Range 4 East of the Salt Lake Base & Meridian, Utah

executed by Harvey D. Hurst under his contract No. 251, dated February 12 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-296

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FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N L-I-N-E-S

of

Township No.28 South, Range No.4 East.

Of the Salt Lake Base and *Meridian,*

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist, *United States Deputy Surveyor,*

Under his Contract No. 251, *dated* February 12, 1902.

Survey commenced September 7, 1902. *189*

Survey completed September 10, 1902. *189*

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BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

William Walquist	Chainman
Earl V.Woolley	"
Arthur H.Munger	Moundman
Oley Sorenson	"
Harry Payne	Axman
Harry Payne	Flagman

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PRELIMINARY OATHS OF ASSISTANTS.

We, William Walquist and Earl V. Woolley 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.28 S., R.4 E., and T.30 S., R.3 E. of the Salt Lake Base and Meridian, Utah.

William Walquist, Chainman
Earl V. Woolley, Chainman

Subscribed and sworn to before me this 7th day of September, 1902, 189

SEAL

Harvey M. Reist
U.S. Deputy Surveyor

We, Arthur M. Munger and Oley Sorenson 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.28 S., R.4E., and T.30 S., R.3 E. of the Salt Lake Base and Meridian, Utah.

Arthur M. Munger, Moundman
Oley Sorenson, Moundman

Subscribed and sworn to before me this 7th day of September, 1902, 189

SEAL

Harvey M. Reist
U.S Deputy Surveyor

We, I, Harry Payne and ..... do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Subdivisions of T.28 S., R.4 E., and T.30 S., R.3 E. of the Sa rk BasC and Meridian, Utah.

Harry Payne, Axman
..... Axman

Subscribed and sworn to before me this 7th day of September, 1902, 189

SEAL

Harvey M. Reist
U.S. Deputy Surveyor

I, Harry Payne, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivisions of T.28 S., R.4 E., and T.30 S., R.3 E. of the Salt aLke Base and Meridian, Utah.

Harry Payne, Flagman

Subscribed and sworn to before me this 7th day of September, 1902, 189

SEAL

Harvey M. Reist
U.S. Deputy Surveyor

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Subdivision of T.28 S.,R.4 E.

chains	
	Survey commenced, September 7 th.,I902.
	and executed with the instrument described in book "A" of this survey.
	I know the instrument to be in adjustment fromrecent observation made at the cor.of Tps.28 and 29 S.,Rs. 4 and 5 E. and recorded in book "A" of this survey.
	At the cor.of secs.I,2,35 and 36,heretofore described on the S.bdy.of the Tp. At 8 a.m., l.m.t., I set off 38°20'N.on lat.arc,6°18'N.on decl.arc,and determine a meridian with the solar,Thence I run
	N.0°0I'W.bet. secs. 35 and 36.
	Ascending over broken land,through scattering cedar and pinon timber.
I3.00	Brush fence, bears N.W.and S.E.
I3.65	Top of ridge,bears N.W.and S.E. descend.
I9.50	Enter bottom,bears N.W.and S.E.along bottom,through dense artimesa.
2I.00	Dry run,course S.E.
3I.50	Flume, bears E.and W.
33.00	Leave bottom and dense artimesa,ascend broken hills, bears N.W. and S.E.
40.00	250 ft.above bottom,set a sand stone 24XI5XI5 ins.I8 ins. in the ground for ¼ sec.cor.,marked ¼ on W. face and raise a mound of stone 2 ft.base,4ft. high W. of cor. Pits impracticable.
53.00	Spur,projects W. descend.
80.00	Set a sand stone I5XI2XI0 ins.I0 ins. in the ground for cor. of secs. 25,26,35 and 36.,marked with one notch on the S.and E.edges,raise a mound of stone 2 ft. base,4ft.high W.of cor. Pits impracticable.
	Land,mountainous.
	Soil,stony and clay,2nd.and 4th.rate.
	Timber,scattering cedar and pinon.
	Mountainous and dense under grouth,80.00 chs.

Subdivision of T.28 S.,R.4 W.

chains	
	S.89°58'E.,random line bet.secs.25 and36.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect E. bdy.of Tp.5 lks.S.of the cor.of,secs.25-30 31 and 36,heretofore described.
	Thence I run
	West,on a true line bet.secs.25 and 36.
	Descend over broken land,through scattering cedar.
7.00	Bottom of canon, course S.80°E.,ascend.
I5.00	Broken sand stone ledges,bears N.W. and S.E.
40.00	Falls on ground subject to slides and is not set.
49.25	Set a sand stone I5XI0X6 ins. I0 ins.in the ground for witnesscor.to $\frac{1}{4}$ sec.cor. marked WC $\frac{1}{4}$ on the N.face,raise a mound of stone 2 ft. base,1$\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
57.I5	Top of ridge, I000 ft. above sec.cor.bears N.and S. descend.
7I.00	Top of sand stone ledges,300 ft. high, bears N.and S.
73.00	Foot of same ledges,descend over broken hills.
80.04	The cor. of secs. 25,26,35 and 36. 800 ft. below ridge.
	Land,mountainous.
	Soil,stony, 4th. rate.
	Timber, scattering cedar.
	Mountainous land,80.04 chains.
	September 7th. At this cor. I set off 6°I3'N. on the decl.arc;and at IIh.58 m. a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 38°2I'
	N.0°0I'W.,bet.secs. 25 and 26.
	Descending over broken land through scattering cedar and pinon timber.
3.50	Ravine,I00 ft. below cor. course S.W. ascend.
7.50	Spur,projects E. descend
I6.00	Ravine,I50 ft. deep, course S.E. ascend.
40.00	Top of ridge,bears NW. and S.E.,descend.
	Set a sand stone I5XI0X9 ins. I0 ins in the ground

Subdivision of T. 28 S., R. 4 E.

chains	
	for ¼ sec. cor., marked ¼ on W. face, and raise a mound of stone 2ft. base, 1½ ft. high, W. of cor. Pits impracticable.
61.00	Canon 600 ft. below ridge, course S.E. ascend.
80.00	Set a sand stone 15X10X8 ins. 10 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with one notch on the E. and 2 notches on the S. edges, and raise a mound of stone 2 ft, base, 1½ ft. high W. of cor. pits impracticable.
	Land, mountainous.
	Soil, stony, 4 th. rate.
	Timber, scattering cedar and pinon.
	Mountainous land, 80.00 chains.
	From the cor. of secs. 2-3-34 and 35, heretofore described on the S. bdy. of the Tp., I run
	N. 0°01' W. bet. secs. 34 and 35.
	Descending over rolling land through scattering cedar and pinon.
3.50	Browns creek, 3 lks. wide, pure water flows S.E. ascend
5.00	Enter heavy cedar and pinon timber, bears E. and W.
40.00	Set a sand stone 18X12X6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face, from which a cedar 10 ins. in diam. bears N. 65°E. 30 lks., marked ¼ S35 B T. A pinon 6 ins. in diam. bears W. 16 lks. marked ¼ S34 B T.
49.00	Begin abrupt ascent, leave heavy timber, bears E and W.
60.60	Top of high sand stone ledges, 500 ft. above the sec. cor., bears E. and W.
66.00	Descend. over broken sand stone ledges, bearing N.W. and S.E.
80.00	Falls on sand stone ledge, mark X on ledge, for cor. of secs. 26, 27, 34 and 35, with one notch on the S. and 2 notches on the E. of cross, and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous.
	Soil, sandy and stony, 2 nd. and 4 th. rate.

Subdivision of T.28 S.,R.4 E.

chains	
	Timber,cedar and pinon.
	Mountainous land and heavily timbered, 80.00 chains.
	—
	S.89°58'E. on a random line bet.secs.26 and 35.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.09	Intersect N.and S.line ; [illegible] at the cor. of secs. 25,26,35 and 36.
	Thence I run
	N.89°58'W. on a true line bet. secs.26 and 35.
	Descending over broken land, through scattering cedar and pinon timber.
I.90	Bottom of ravine,I00 ft. deep,course S.ascend.
24.20	Point of high sand stone spur, projects S.descend.
40.04	Set a sand stone I5XI3X8 ins. I0 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face,raise a mound of stone 2 ft. base,1½ ft. high N. of cor.
	Pits impracticable.
47.00	Ravine,I50 ft. deep, course S.E.,ascend.
80.09	The cor. of secs. 26,27,34 and35.
	Land,mountainous.
	Soil, stony, 3 rd.and4 th.rate.
	Timber,cedar and pinon.
	Mountainous land, 80.09 chains.
	September 7 th.I902.
	—
	September 8 th.I902.
	At the cor. of secs. 26,27, 34 and35.,I set off 38°20' N.on the lat.arc;5°55'N.on the decl.arc;and at 8 a.m. l.m.t.,determine a true meridian with the solar.
	N.0°0I'W.bet. secs.26,and 27.
	Over broken foot hills,through scattering cedar and pinon timber.
38.50	Dry run, course E.
40.00	Set a sand stone I4XI0X9 ins. I0 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W.face,raise a mound

Subdivision of T.28 S.,R. 4 E.

chains	
	of stone 2 ft. base, 7½ ft. high W. of cor. Pits impracticable.
	Note; On account of broken and worthless country I discontinue further survey on this line.
	Land, Mountainous.
	Soil, stony, 4th. rate.
	Timber, scattering cedar and pinon.
	Mountainous land, 40.00 chains.
	From the cor. of secs. 3-4-33 and 34, heretofore described on the S. bdy. of the Tp., I run N.0°02'W. bet. secs. 33 and 34.
	Descend over broken land, through scattering cedar and pinon timber.
I.00	Dry run, course, E.
I7.00	Dry run, course S.E. ascend.
40.00	Set a sand stone I5XI0X7 ins. I0 ins in the ground for ¼ sec. cor. marked ¼ on W. face, raise a mound of stone 2 ft. base, I½ ft. high W. of cor. Pits impracti-able.
53.00	Begin steep broken ascent, bears E. and W.
62.20	Top of sand stone ledges, 500 ft. above sec. cor. bears E. and W.
68.00	Top of ridge, bears E. and W. descend.
80.00	Set a sand stone I6XIIX7 ins. II ins. in the ground for cor. to secs. 27, 28, 33 and 34., marked with one notch on the S. and 3 notches on the E. edges. raise a mound of stone 2ft. base, I½ ft. high W. of cor. Pits impractiaable.
	Land, mountainous.
	Soil, sandy and stony, 2nd. and 4th. rate.
	Timber, stattering, cedar and pinon.
	Mountainous land, 80.00 chains.
	S.89°58'E. on a random line, bet. secs. 27 and 34.
40.00	set temp. ¼ sec. cor.
80.06	Inter sect N. and S. line, I6 lks. S. of the cor. of secs. 26, 27, 34 and 35.

Subdivision of 6T.28 S., R.4E.

chains	
	Thence I run
	S.89°55'W. ona true line bet. secs.27 and 34.
	Ascending over broken sand stone ledges,bearing N.and S.,through scattering cedar andpinon timber.
5.50	Ridge,bears N.and S. descend.
9.00	Top of sand stone ledgas,300 ft.high,bear N.andS.
II.00	Foot of same,descend over broken foot hills.
2IQ00	Leave hills,bear N.and S. enter dense artimesa.
40.03	Set a sand stone I8XI2XI2 ins.I2 ins.in the ground for ¼ sec. cor. marked ¼S on tha N. face,raise a mound of stone 2 ft, base, I½ ft. high N. of cor. Pits impracticable. along nearly level land.
44.00	Enter heavy cedar and pinon timber,bears N. and S.
55.70	Creek,2 lks.wide,in wash IOXIO ft,course S.
66.20	Leave timber,bears N.and S.
	Browns creek,3lks. wide pure water flows S.E. ascend.
80.06	The cor.of secs. 27,2833 and 34.
	Land ,Mountainous.
	Soil,sandy and stony,3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land and dense under growth 80.06 chains.
	September 8th. At this cor. I set off 5°5I'N. on decl. arc: and at 11h.58m. observe the sun on the meridian the resulting lat. is 38°2I' N.
	N.0°02'W. bet. secs 27 and28.
	Descending over rolling land;through dense artimesa and scattering cedar and pinon timber.
I7.50	Browns creek,3 lks. wide,pure water flows S.E.ascend.
40.00	Set a sand stone I4XI3XI0 ins.I0 ins.in the ground for ¼ sec. cor. ;marked ¼S on W. face, raise a mound of stone 2 ft, base,I½ ft. high W. of cor. Pits impracticable.
45.00	Begin abrupt ascent over broken foot hills ,bears N.W. and S.E.

Subdivisions of T. 28 S., R. 4 E.

CHAINS	
60.50	Top of sandstone ledges, 400 ft. high, bear N.W. and S.E.
80.00	Set a sandstone 14x14x7 ins., 9 ins. in the ground, for 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.
	Land mountainous.
	Timber, cedar and pinon.
	Soil, sandy and stony, 3rd. and 4th. rate.
	Mountainous land and dense undergrowth on 80.00 chs.
	September 8th., 1902.
	Sept. 9, 1902, At the cor. of secs. 4-5-32 and 33, heretofore described, on the S. bdy. of the Tp., at 8 a.m., l.m.t., I set off 38°20'N. on lat. arc, 5°33'N. on decl. arc, and determine a true meridian with the solar. Thence I run
	N. 0° 03'W. bet. secs. 32 and 33.
	Over broken and rocky land, descend through scattering cedar and pinon timber.
38.00	Dry run, course S.E. Ascend.
40.00	Set a sandstone 18x10x8 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.
59.00	Begin abrupt ascent, bears E. and W.
60.00	Top of sandstone ledges, 400 ft. high, bears E. and W. Descend.
74.00	Dry run, course S.W.
80.00	Set a trachyte stone 18x12x8 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. edges, from which
	A cedar 8 ins. diam., bears N. 87°E., 35 lks. dist., marked T. 28S., R. 4 E S 28 B T.
	A pinon 12 ins. diam, bears S. 57°E., 101 lks. dist., marked T 28 S R 4 E S 33 B T.
	A pinon 8 ins. diam., bears S. 23°W., 58 lks. dist. marked T 28 S R 4 E S 32 B T.
	A pinon 6 ins. diam., bears N. 43°W., 17 lks. dist.,

CHAINS	
	marked T 28 S R 4 E S 29 B T.
	Land mountainous.
	Soil, sandy and stony 3rd. and 4th. rate.
	Timber, cedar and pinon.
	Mountainous land on 80.00 chs.
	S.89°58'E., on a random line, bet. secs. 28 and 33.
40.00	Set temp. ¼ sec. cor.
80.07	Intersect N. and S. line 7 lks. N. of the cor. of secs, 27-28-33 and 34. Thence I run
	N.89°55'W. on a true line bet. secs. 28 and 33.
	Over broken sandstone ledges bearing NW and SE, ascend abruptly through scattering cedar and pinon timber.
23.25	Top of ledges, 400 ft. high, bear N. and S.
28.20	Spur projects N. Descend.
32.30	Ravine, 100 ft. deep, course N. Ascend.
35.00	Spur, projects N. Descend.
36.75	Ravine, 100 ft. deep, course N. Ascend.
38.10	Sandstone ledges 50 ft. high, bear N. and S.
40.03½	Seta sandstone 18x8x5 ins., 12 ins in the ground, for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon 6 ins. diam., bears N.59°E., 35 lks. dist., marked ¼ S 28 B T. A pinon 8 ins. diam., bears S.74°W., 68 lks. dist., marked ¼ S 33 B T.
60.00	Ridge bears N. and S. Descend.
72.00	Ravine 75 ft. deep, course S.W. Ascend.
79.00	Spur, projects S. Descend.
80.07	The cor. of secs. 28-29-32 and 33.
	Land mountainous.
	Soil, stony 4th. rate.
	Timber cedar and pinon.
	Mountainous land on 80.07 chs.
	N.0° 03'W. bet. secs. 28 and 29.
	Along the west side of mountain, over broken land, through heavy cedar and pinon timber.
40.00	Set a sandstone 14x10x8 ins., 9 ins. in the ground.

Subdivision of T.28 S., R.4 E.

chains

for ¼ sec.cor. marked ¼ on the W. face, from which a pinon 3 ins. in diam. bears N.36°E. 34 lks. dist. marked ¼S 28 BT., A Cedar 6 ins. in diam. bears W. 9 lks. dist. marked ¼S 29BT.

80.00 Set a sand stone I5XI0X9 ins. I0 ins. in the ground for cor. of secs. 20,2I,28,and29, marked with 2 notches on the S. and 4 notches on the E. edges, from which a pinon 4 ins. in diam. bears N8°E.I0 lks. dist. marked T28S R4E S 2I BT., a pinon 5 ins. in diam. bears SI9°E. 48 lks. dist.marked T 28 S R4E S28 BT.,A pinon9 ins. in diam. bears S.48°W. 57 lks. dist. marked T28S R4E S 29 BT., A pinon 5 ins. in dia diam.bears N82°W. 45 lks dist. marked T28S R4E S20 BT.

Land mountainous. Soil rocky 4th.rate. Timber, cedar and pinon. Mountainous and heavily timbered 80.00 chs.

Sept.9, At this cor. I set off 5°29'N. on decl. arc, and at 11h.57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°21'N.

S.89°55' E. on a random line bet. secs. 2I and 28.

40.00 set temp.¼ sec. cor.

80.I0 Intersect N. and S. line I0 lks S. of the cor. of secs. 2I,22, 27 and 28.

Thence I run

N.89°59'W. on a true line bet. secs.2I and 28.

Descending over broken land, through scattering cedar and pinon timber.

9.00 Sand stone ledges, 250 ft. high, bears N.W. and S.E.

I6.00 Foot of broken land, bears N.W.andS.E., descend gradually through dense artimesa.

33.00 Browns creek, 3 lks wide, course S.E.ascend.

40.05 Set a sand stone I5XI0X8 ins. I0 ins. in the ground for ¼ sec. cor. marked ¼ on the N. face, raised a mound of stone 2 ft. base, I½ ft. high N. of cor. Pits impracticable.

44.00 Leave dense artimesa, ascend broken hills, bears N.and S

54.00 Top of sand stone ledges, 300ft.high, bears N.andS.

Subdivision of T.28 S.,R.4 E.

chains	
	Ascend, gradually.
74.00	Top of ridge,bears N. and S. descend.
80.10	The cor. of secs. 20,21,28 and29.
	Land,mountainous.
	Soil,stony, 4th. rate.
	Timber, cedar and pinon.
	Mountainous land,and dense undergrowth, 80.10 chains.
	Note; I discontinue further survey North on account of broken and worthless country.
	September 9th.1902.
	—
	September 10th.1902. At the cor. of secs.5,6,31 and 32,on the S.bdy.of Tp.,I set off 38° 20'N. on lat. arc;5°11'N.on the decl.arc;and at 8a,m,l.m.t., determine a true meridiam with the solar.
	N.0°03'W.bet.secs.31and 32.
	Descending over broken foot hills and sand stone ledges,throughscattering cedar and pinon timber.
34.00	Canon, 300 ft. deep, course S.W. ascend.
40.00	Set a sand stone 16X10X9 ins. 11 ins. in the ground for ¼ sec. cor. ,marked ¼ on the W. face,raise a mound of stone 2ft.base,1½ ft. high W. of cor.
	Pits impracticable.
68.50	Sand stone ledges 200 ft.high,bears N.W.andS.E.
80.00	Set a sand stone 17X10X6 ins. 11 ins. in the ground for cor.of secs.29,30,31 and 32, marked with one not notch on the S. and 5 notches on the E. edges, from which a pinon 5 ins. in diam. bears N9°E.19 lks.dist. marked T28S R4E S29 BT., A pinon 8 ins.in diam. bears S67°E. 56 lks. dist., marked T28S R4E S32 BT., A pimon 9 ins. in diam. bears S.57°W.48 lks. dist. ma marked T28S R4E S 31 BT.,A cedar 10 ins. in diameter bears N.62°W. 109 lks. dist. marked T28S R4E S 30 BT
	Land,mountainous.
	Soil,stony clay,4th. rate.
	Timber,cedar and pinon.

Subdivisions of T.28 S.,R.4 E.

chains

Timber,cedar and pinon.

Mountainous land,80.00 chains.

S.89°58'E., on a random line,bet.secs.29 and 32.

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line 11 links S.of the cor.of secs.28,29,32 and 33.

Thence I run

S.89°57'W. on atrue line bet. secs.29 and 32.

Descend over broken land, through heavy cedar and pinon timber.

12.50 Sand stone ledges, 100 ft. high,bears N.and S.

16.00 Head of ravine,250 ft.deep,course S. ascend.

19.25 Sand stone ledges,100 ft. high, bears N. and S.

31.00 Mountain ridge, bears N.E. and S.W. descend.

40.02 Set a sand stone ,20X12X8 ins.15 ins. in the ground for ¼ sec. cor. marked ¼ on N. face,from which a pinon 8ins. in diam. bears N.63°E, 56 lks. dist. marked ¼S 29 BT.A pinon 10 ins. in diam. bears S.17°E. 35 lks. dist marked ¼S 32 BT.

51.00 Dry run,course S.W.

80.04 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

Soil, stony, 4 th. rate.

Timber, heavy cedar and pinon.

Mountainous land and heavily timbered,80.04 chains.

Note; I discontinue further surveys in this Tp. on account of broken and worthless country.

September 10 th.1902.

GENERAL DISCRIPTION.

The portion of the township surveyed comprises of stony sand and clay soil,and is mostly mountainous, ahigh-sand stone ledge extends east and west and is cut by box canons making it almost impassable.

Heath canon in sec. 36 hasa small bottom of fertile

land.

Browns creek runs through rolling sand hills ,in which there is good grazeing,thewater from this creek is used in the township south.

Cedar and pinon timber is found throughout the township.

William A.Holt is located in the S.W. ¼ of sec.36, He has about 4 acres of land under cultivation and the improvements are valued at about $ 200.

There are no indications of mineral in the township.

There are no other settelers in the township.

September 10th. 1902.

Harvey L. Heist

U.S.Deputy surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ..... showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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, February 2, 1904 189

The foregoing field notes of the survey of the subdivisional lines of Township 28 South Range 4 East of the Salt Lake Base & Meridian, Utah

executed by Harry D. Reid under his contract No. 257, dated February 12, 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M. Anderson

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-296

FIELD NOTES

OF THE SURVEY OF THE

N.3.B.

NORTH AND EAST BOUNDARIES OF

Township No. 30 S., Range No. 3 East,

Of the Salt Lake Base and *Meridian,*

in the state of Utah.

AS SURVEYED BY

Harvey D. Heist, *United States Deputy Surveyor,*

nder his Contract No. 251, *dated* February 12, 1902, *189*

rvey commenced September 10, 1902, *189*

rvey completed September 17, 1902, *189*

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NAMES AND DUTIES OF ASSISTANTS.

William Walquist	Chainman
Earl V. Woolley	"
Arthur N. Munger	Moundman
Olev Sorenson	"
Harry Payne	Axman
Harry Payne Flagman	

For preliminary affidavits see book B. Tp 28 S R 4 E

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BOOK A-296

INDEX DIAGRAM.

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

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level th
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 o

.....

....., *Chainma*

....., *Chainma*

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 establishme
of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

....., *Moundmo*

....., *Moundmo*

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 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 ....., 189

SEAL

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

....., *Flagm*

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

SEAL

-I-

East boundary of T.30 S.,R.3 E.

Survey commenced,September I0th.I902,and executed with a W.& L.E.Gurley light mountain transit,No.-. with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each-other ,reading to single minutes of arc,which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the true meridian at Salt Lake City,found correct,and was approved by the surveyor general for Utah,May 27th.I902.

I examine the adjustments of the instrument of the transit,and found them correct,then,to test the solar apperatus,by comparing its indications,resulting from solar observations made during a.m. and p.m. hours,witha meridian determined by observation on Polaris,I preceed as follows;

At a point 5 chs.S.of the cor. of TPs.29 and30 S.,Rs. 3 and 4 E.,

I set off 38°15'N.on the lat.arc;5°04'N. on the decl. arc;and at 4 p.m.,l.m.t.,determine with the solar a meridian and mark the point thereof,on a stone firmly set in the ground 5 chs. N.of my station.

At 8h.I2m.,p.m.,l.m.t.,I observe Polaris at eastern elongation ,in accordance with the manual of instructions,and mark thepoint in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

September I0th.I902.

—

September IIth.I902,At 7h.30m.,a.m.,l.m.t.,I lay off the azimuth of Polaris,I°33'to the W.and mark the meridian thus determined,by cutting a small groove in the stone set September I0th.on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h.0m.,a.m.,l.m.t.,I set off 38°15'N.on the lat. arc;4°49'N. on the decl.arc;and mark a point in the

East boundary of T.30 S.,R.3 E.

chains	
	meridian determined with the solar,by a cross on the stone already set 5chs.N.of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.
	The solar apperatus,by p.m. and a.m. observations,defines positionsvfor meridians,about 0'I6" on each side 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. I5°30'W.;the angle thus determined gives the mag. decl. I5°30'E.
	I begin at the cor of Ts.29 and 30 S.,Rs.3 and 4 E., in lat.38°I4'43"N.,long. III°33'58"W.which is a granite stone I0XI0X8 ins.above ground marked and witnessed as described by the surveyor general.
	Thence I run
	South on the East bdy.of the Tp. bet.secs.I and 6.
	Descending over broken stony land,through heavy aspen and pine timber.
6.50	Ravine,300ft.deep,course N.E. begin abrupt ascent.
40.00	Set a trachyte stone I4XI0X5 ins.I0 ins. in the ground for ¼ sec.cor.marked ¼ on the W. face, from which an aspen 4 ins.in diam.bears S.37°E.4lks.dist. marked ¼S6 BT.An aspen 4ins. in diam. bears S.45°W. 5lks.dist.marked ¼SI BT.
66.50	Top of abrupt ascent,bears N.E. and S.W.800ft.above ravine.
68.50	Spur,projects S.W.,descend
80.00	Set a trachyte stone I8XI2X4 ins.I2 ins.in the ground for cor.of secs. I,6,7 andI2,marked with one notch on the N. and 5 notches on the S.edges,from which an aspen 5ins. in diam.bears N.2I°E.I4 lks.dist.marked T30S R4E S6 BT.A pine I2 ins.in diam.bearsS.6I°E.37 lks.dist.marked T30S R4E S7 BT. Apine 8 ins.in diam.

East Boundary of T.30 S.R.3 E.

Chains.	
	bears S.48° W.54 lks. dist., marked T.30 S R 3 E S 12 B T .
	An aspen 2 ins. diam. bears N.70°W.19 lks. dist. marked T 30 S R 3 E S 1 B T
	Land mountainous.
	Soil stony, 3rd. rate.
	Timber aspen and pine.
	Mountainous land and heavily timbered 80.00 chs.
	South bet. secs. 7 and 12
	Descending through heavy pine and aspen timber.
14.00	Ravine, 100 ft. deep, course W.
	Ascend.
40.00	Set a trachyte stone 15x10x8 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W face.
	From which
	An aspen 3 ins. diam. bears E.10 lks. dist., marked ¼ S.7 B T
	An aspen 5 ins. diam. bears N.80°W.4 lks. dist. marked ¼ S 12 B T .
76.00	Enter burnt timber, bears N.E. and S.W.
80.00	Set a trachyte stone 18x15x6 ins. 12 ins. in the ground, for corner of secs. 7-12-13 and 18, marked 2 notches on N. and 4 notches on S. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony loam; 4th. rate.
	Timber pine and aspen.
	Mountainous land, and heavily timbered 80.00 chs.
	September 11, 1902, At this corner I set off 4°44'N. on the decl. arc, and at 11 h. 57 m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 38°13' N.

East Boundary of T.30 S.R.3 E.

CHAINS.	
	South bet. secs.13 and 18
	Ascending over boulders, through scattering pine and aspen timber.
38.00	Top of steep ascent, bears N.E. and S.W.
	Leave burnt timber.
40.00	Set a trachyte stone 15x12x8 ins.10 ins. in the ground, for ¼ sec.cor., marked ¼ S. on W. face; from which
	A pine 10 ins. diam. bears N.6°E. 10 lks. dist., marked ¼ S.18 B T.
	A pinon pine 8 ins. diam. bears N.18°W. 10 lks. dist., marked ¼ S 13 B T .
48.00	Divide of Boulder Mountain, ridge bears N.E. and S.W.
	Descend.
51.00	Leave timber, bears E. and W.
56.00	Leave boulders bear E. and W.
60.00	Marsh, bears E. and W.
80.00	In marsh.
	Set a trachyte stone 15x10x12 ins.10 ins. in the ground for corner of secs.13-18-19 and 24, marked with 3 notches on N. and 3 notches on S. edges, ; raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous and level.
	Soil stony and loam; 1st. and 4th. rates.
	Timber heavy aspen and pine.
	Mountainous land, and heavily timbered land 60.00 chs.
	September 11, 1902.

September 12, 1902, at the corner of secs.13-18-19 and 24, I set off 4°26' N. on the decl. arc, and 38°11' N. on the lat. arc, and at 8 a.m. l.m.t. determine a meridian with the solar.

East Boundary T.30 S.R.3 E.

CHAINS.	
	South bet. secs. 19 and 24
	Through marshy land,
2.00	Leave marshy land.
	On account of marshy land, set a trachyte stone 15 x12x8 ins. 10 ins. in the ground, for witness corner to secs. 13-18-19 and 24, marked W. C on E. face, with 3 notches on N. and S. edges; raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Begin steep ascent over boulders, bearing E. and W.
18.00	Enter heavy pine and aspen timber, bears E. and W.
40.00	Set a trachyte stone 16x10x5 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ S on W. face, from which
	A pine 30 ins. diam. bears S. 29°E. 18 lks. dist. marked ¼ S 19 B T .
	A pine 6 ins. diam. bears S. 4°W., 17 lks. dist., marked ¼ S 24 B T .
58.00	Ridge bears E. and W.; descend.
74.00	Leave timber, bears E. and W.
80.00	Set a trachyte stone 20x10x6 ins. 15 ins. in the ground, for corner of secs. 19-24-25 and 30, marked with 4 notches on N. and 2 notches on S. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony and loam, 1st. and 4th. rates.
	Mountainous land and heavily timbered 78.00 chs.

	South bet. secs. 25 and 30
	Descending over rocky land.
1.50	Hollow, drains E.
8.00	Enter heavy pine timber, bears N.E. and S.W.
40.00	Set a trachyte stone 18x12x8 ins. 12 ins. in the

East Boundary of T.30 S.R.3 E.

Chains.	
	ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W. face, from which
	A pine 8 ins. diam. bears N.32°E. 19 lks. dist., marked $\frac{1}{4}$ S.30 B T
	A pine 4 ins. diam. bears N.60°W. 28 lks. dist., marked $\frac{1}{4}$ S 25 B T .
59.00	Leave timber, bears E. and W.
66.75	Circular pond, 6 chs. diam. 800 ft. below ridge,
	Ascend.
80.00	Set a trachyte stone 15x9x9 ins. 10 ins. in the ground for corner to secs. 25-30-31 and 36, marked with 5 notches on N. and 1 notch on S. edges; raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony; 4th. rate.
	Timber pine.
	Mountainous land and heavily timbered land 80.00 chs.
	September 12, 1902, at this corner I set off 4°21' N. on the decl. arc, and at 11 h. 57 m. a.m. l. m. t., observe the sun on the meridian, the resulting lat. is 38°10' N.

South bet. secs. 31 and 36

	Ascend over rocky land,
39.75	Enter scattering pine timber.
40.00	Set a trachyte stone 15x10x6 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W. face, from which
	A pine 12 ins. diam. bears S.46$\frac{1}{2}$°E. 131 lks. dist. marked $\frac{1}{4}$ S 31 B T .
	A pine 5 ins. diam. bears N.15°W., 13 lks. dist., marked $\frac{1}{4}$ S.36 B T .
49.00	Enter heavy pine timber, bears E. and W.
68.00	Top of ridge, 500 ft. above pond, bears E. and W. Descend.
75.00	Leave heavy timber, bears E. and W.

EAST BOUNDARY T.30 S.,R.3 E.

CHAINS	
80.00	Set a trachyte stone 30x15x15 ins.20 ins.in the ground for standard cor.of Tps.30 S.mRs.3 and 4 E.,marked S.C.on N with 6 grooves on N. E.and W.faces,from which A pine 6 ins.diam.,bears N.78°E.,128 lks.dist marked T 30 S R 4 E S 31 B T. A pine 3 ins.diam.,bears N.87°W.48 lks.dist., marked T 30 S R 3 E S 36 B T . Land mountainous. Soil stony 3rd.rate. Timber pine. Mountainous land or heavily timbered on 80.00 chs. September 12,1902.

North Boundary T.30 S.,R.3 E.

September 16,1902,at 8 a.m.,l.m.t.,I set off 38°15'N. on lat.arc,2°53'N.on decl.arc,and determine a true meridian with the solar at the cor.of Tps.29 and 30 S., Rs.3 and 4 E.,latitude 38°14'43" N.,longitude 111°34' W.,heretofore described.

Thence I run

West on a random line along the N.bdy.of the Tp., setting temporary ¼ sec.and sec.cors.at intervals of 40.00 chs.,and at 479.52 chs.,intersect Fremont Valley Guide Meridian,29 lks.S.of the cor.of Tps.29 and 30 S.,Rgs.2 and 3 E.,heretofore described.

The falling answers to a correction of 0°02'N.or 5 lks. N.per mile,counting from the N.E.cor.of the Tp.

At this cor.I set off 38°15'N.on lat.arc,2°46'N.on decl. arc,and at 3h.0m.,p.m.,l.m.t.,determine a true meridian with the solar.

Thence I run

S.89° 58'E.on the N.bdy.of the Tp.

Bet.secs.6 and 31.

North Boundary T.30 S.R.3 E.

CHAINS	
	Over rocky land ascend through heavy cedar and pinon timber.
7.48	Top of spur projects N.
	Descend.
12.42	Road from Thurber to Boulder, bears N. and S.
13.27	Ravine 25 ft. deep, course N.
21.52	Ridge, bears N. and S., descend.
25.52	Leave timber, bears N. and S.
39.52	Set a trachyte stone 20x10x8 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.
53.48	Enter heavy cedar and pinon timber, bears N.W. and S.E.
72.02	Ravine 75 ft. deep, course N.E.
	Ascend.
79.52	Set a trachyte stone 30x10x10 ins., 27 ins. in the ground and mound of stone 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 pine 10 ins. diam., bears N.59°E., 7 lks. dist., marked T 29 S R 3 E S 32 B T.
	A pinon pine 8 ins. diam., bears S.26°E., 119 lks. dist., marked T.30 S R 3 E S 5 B T.
	A pinon pine 8 ins. diam., bears S.82½°W. 17 lks. dist. marked T 30 S R 3 E S 6 B T.
	A pinon pine 6 ins. diam., bears N.73°W., 65 lks. dist. marked T 29 S R 3 E S 31 B T.
	Land rolling.
	Soil stonyloam, 2nd and 3rd. rate.
	Timber cedar and pinon pine.
	Heavily timbered on 57.56 chs.

	S.89° 58'E., bet. secs. 5 and 32.
	Over stony land ascend through heavy cedar and pinon timber.

North Boundary of T.30 S., R.3 E.

CHAINS	
1.00	Top of ridge, bears N.W. and S.E.
	Descend.
40.00	Point for ¼ sec. cor., falls on a trachyte boulder 3x3x2 ft. above ground, I cut a cross at exact point for ¼ sec. cor., mark ¼ on N. side of cross, from which
	A pine 8 ins. diam., bears N.62°W., 20 lks. dist., marked ¼ S 32 B T.
	A pine 8 ins. diam., bears S.10°E., 18 lks. dist., marked ¼ S 5 B T.
47.70	Wagon road, bears NW and SE; leave heavy pinon pine and cedar timber.
49.50	Wagon road, bears N. and S.
	Enter bottom land bears N.W. and S.E.
	Enter dense artemisia.
63.30	Pine Creek, 8 lks. wide, course N.W.
67.00	Same creek 8 lks. wide, course S.W.
70.64	Same creek, 8 lks. wide, course N.W.
80.00	Set a trachyte stone 15x8x8 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 broken.
	Soil stony 3rd. rate.
	Timber cedar and pinon pine.
	Dense undergrowth or heavily timbered on 80.00 chs.
	September 16, 1902.

September 17, 1902, At 8 a.m., l.m.t., mI set off 38° 18' N. on lat. arc, 8°30' N. on decl. arc, and determine a true meridian with the solar at the cor. of secs. 4-5-32 and 33., Thence I run

S.89° 58' E., bet. secs. 4 and 33.,

Over bottom land through dense artemisia.

North Boundary T.30 S., R.3 E.

CHAINS	
1.00	Leave bottom land, bears N.W. and S.E.
40.00	Falls on a trachyte boulder, 2½x2x1½ ft. above ground, I cut a cross X at exact point for ½ sec. cor., mark ½ on N. face, and raise a mound of stone 2 ft. base, 1½ ft. high. N. of cor.
	Pits impracticable.
	Enter scattering cedar and pinon timber.
42.05	Point of rocky spur, projects N. descend.
50.00	Dry run, course N.
	Ascend.
60.00	Top of ridge, bears N. and S.
	Descend.
80.00	Set a trachyte stone 14x10x8 ins., 9 ins. in the ground, for cor. of 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.
	Land mountainous.
	Soil, stony 3rd. rate.
	Timber, cedar and pinon pine.
	Mountainous land and dense undergrowth on 80.00 chs.
	S.89° 58'E., bet. secs. 3 and 34.
	Descend through dense artemisia.
0.45	Dry run, course N.
	Begin abrupt ascent.
30.00	Top of spur, projects S.
	Descend.
	Enter heavy cedar and pinon pine timber, bears N. and S.
40.00	Set a trachyte stone 18x8x6 ins., 12 ins in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon pine 4 ins. diam., bears N.50°W., 19 lks. dist., marked ¼ S 34 B.T.
	A pinon pine 16 ins. diam., bears S.65°W., 10 lks.

North Boundary T.30 S., R.3 E.

CHAINS	
	dist., marked ¼ S 3 B T.
43.00	Ravine 75 ft. deep, course N. ascend.
55.50	Ridge, bears N. and S. Descend.
60.75	Ravine 150 ft. deep, course N.W. Ascend.
79.00	Spur projects N.W. Descend.
80.00	Set a trachyte stone 18x10x8 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. edges, from which
	A pine 10 ins. diam., bears N.65°E., 52 lks. dist., marked T 29 S R 3 E S 35 B T.
	A pine 3 ins. diam., bears S.59½°E., 6 lks. dist. marked T 30 S R 3 E S 2 B T.
	A cedar 9 ins. diam., bears S.62°W. 52 lks. dist., marked T.30 S R 3 E S 3 B T.
	A pine 8 ins. diam., bears N.54°W. 28 lks. dist., markedT 29 S R 3 E S 34 B T
	Land mountainous.
	Soil stony 3rd. rate.
	Timber cedar and pinon pine.
	Mountainous land, dense undergrowth or heavily timbered on 80.00 chs.
	September 17, at this cor. I set off 2°25'N. on decl. arc, and at 11h.54m., a.m., l. a. t., observe the sun on the meridian, the resulting lat. is 38°15'N.
	S.89°58'E., bet. secs. 2 and 35.
	Over rocky land, descend through heavy pine and aspen timber.
1.00	Gulch drains N.80°W.
	Begin abrupt ascent over broken land.
38.65	Top of abrupt ascent, bears N. and S.
	Begin gradual ascent.
40.00	Set a trachyte stone 12x12x12 ins. 8 ins. in the ground, for ¼ sec. cor., marked ¼ on N face, from which

North Boundary T. 30 S., R. 3 E.

CHAINS	
	A pine 18 ins. diam., bears North, 135 lks. dist., marked ¼ S 35 B T.
	A pine 12 ins. diam., bears S. 25° E., 175 lks. dist., marked ¼ S 2 B T.
80.00	Set a trachyte stone 17x12x7 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, from which
	An aspen 3 ins. diam., bears N. 10° E., 75 lks. dist., marked T 29 S R 3 E. S 36 B T.
	An aspen 14 ins. diam., bears S. 16° E., 30 lks. dist., marked T 30 S R 3 E S 1 B T.
	A pine 8 ins. diam., bears S. 52° W., 31 lks. dist., marked T 30 S R 3 E. S 2 B. T.
	An aspen 3 ins. diam., bears N. 6½° W., 62 lks. dist., marked T 29 S R 3 E S. 35 B. T.
	This cor. is set 1000 ft. above the cor. of secs. 2-3-34 and 35.
	Land mountainous.
	Soil stony 4th. rate.
	Timber pine and aspen.
	Mountainous land and heavily timbered on 80.00 chs.
	S. 89° 58' E., bet. secs. 1 and 36.
	Over rocky land, ascend through heavy aspen and pine timber.
1.00	Spur projects N. Descend.
31.50	Dry run drains N. Ascend.
39.00	Top of flat spur projects N. Descend.
40.00	Set a trachyte stone 12x10x10 ins., 8 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pine 6 ins. diam., bears N. 12° E., 60 lks. dist., marked ¼ S 36 B T.
	An aspen 3 ins. diam., bears South, 8 lks. dist., marked ¼ S 1 B T.

North Boundary T.30 S., R.3 E.

CHAINS	
45.00	Swale drains N., ascend.
50.25	Top of spur, projects N., descend.
62.00	Ravine 100 ft. deep, course N.W.
	Ascend.
71.00	Spur projects S., descend.
80.00	The cor. of Tps 29 and 30 S., Rs.3 and 4 E., heretofore described.
	Land mountainous.
	Soil stony 3rd. rate.
	Timber aspen and pine.
	Mountainous land and heavily timbered on 80.00 chs.

September 17.1902.

Note:- For general description see subdivisions of this township.

BOUNDARIES OF T.30 S., R.3 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
6th. Stan. Par. South	West	480.00				480.00
Fremont Val. Guide Mer.	North	480.00	480.00			
N. Bdy. T.30 S., R.3 E.	S.89°58'E.	479.52		0.28	479.52	
E. Bdy. T.30 S., R.3 E.	South	480.00		480.00		
Convergency					.57	
			480.00	480.28	480.09	480.00
				480.00	480.00	
Error in lat. and dep.				0.28	0.09	

Harvey H. Heisel

U.S. DEPUTY SURVEYOR.

There being no notary public or other officer authorized to administer oaths, within reasonable distance, at the beginning or ending of this survey, in order to save time and expense, I administer the preliminary and final oaths myself.

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 rking the lines and corners described in the foregoing field notes of the survey of e E.Bdy. of T.28 S., R.4 E., and the N. and E.Bdys. of T.30 S., R.3 E. of the Salt Lake Base and Meridian, Utah. owing the respective capacities in which they acted:

William Walquist, *Chainman.*

Earl V. Woolley, *Chainman.*

Arthur N. Munger, *Moundman.*

Oley Sorenson, *Moundman.*

Harry Payne, *Axman.*

, *Axman.*

Harry Payne, *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 e E.Bdy. of T.28 S., R.4 E., and the N. and E.Bdys. of T.30 S., R.3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the rner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

William Walquist, *Chainman.*

Earl V. Woolley, *Chainman.*

Arthur N. Munger, *Moundman.*

Oley Sorenson, *Moundman.*

Harry Payne, *Axman.*

, *Axman.*

Harry Payne, *Flagman.*

bscribed and sworn to before me this 17th. day of September, 1902, 189

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 12th day of February, 1902, 189 , I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the E. Bdy. of T. 28 S., R. 4 E., and the N. and E. Bdys. of T. 30 S., R. 3 E.

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

Harvey D. Heist
United States Deputy Surve

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1902, 189

Edward H. Anderson
Surveyor-General for Ut

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1904 189

The foregoing field notes of the survey of the South & East Boundaries of Township 30 South, Ranges 3 East of the Salt Lake Base & Meridian, Utah

executed by Harvey D. Heist under his contract No. 251, dated February 12, 1902 189, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
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

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BOOK A-296

FIELD NOTES

OF THE SURVEY OF THE

S-I-X-T-H S-T-A-N-D-A-R-D P-A-R-A-L-L-E-L S-O-U-T-H

through

Range No.3 East,

Of the Salt Lake Base and *Meridian,*

in the State of Utah,

AS SURVEYED BY

Harvey H. Reist, *United States Deputy Surveyor,*

Under his Contract No. 251, *dated* February 12, 1902.

Survey commenced September 12,1902.

Survey completed September 14,1902

BOOK A-295

NAMES AND DUTIES OF ASSISTANTS.

Karl V. Woolley	Chainman
Arthur H. Hunger	"
William Walquist	"
Oley Sorensen	"
Arthur H. Hunger	Rodman
Oley Sorensen	"
Harry Payne	Axman
Harry Payne	Flagman

BOOK A-296

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE Earl V. Woolley, Arthur N. Munger, William Walquist and Oley Soren
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
the Sixth Standard Parallel South, through Range No. 3 E.
of the Salt Lake Base and Meridian, Utah.

Earl V. Woolley
Arthur N. Munger
William Walquist, Chainma
Oley Sorenson, Chainma

Subscribed and sworn to before me this 12th. day of September, 1902., 19

SEAL

Harvey L. Heist
U.S. Deputy Surveyor

WE, Arthur Munger and Oley Sorenson
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
the Sixth Standard Parallel South, through Range 3 E.
of the Salt Base and Meridian, Utah.

Arthur N. Munger, Moundma
Oley Sorenson, Moundma

Subscribed and sworn to before me this 12th. day of September, 1902., 19

SEAL

Harvey L. Heist
U.S. Deputy Surveyor.

~~WE~~, I, Harry Payne ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of axm~~en~~a in the establishment of corn
and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey
the Sixth Standard Parallel South, through Range No. 3 E.
of the Salt Lake Base and Meridian, Utah.

Harry Payne, Axme
, Axme

Subscribed and sworn to before me this 12th. day of September, 1902., 19

SEAL

Harvey L. Heist
U.S. Deputy Surveyor

I, Harry Payne, 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 the Sixth Standard Paralle South, through Range No. 3 E.
of the Salt Lake Base and Meridian, Utah.

Harry Payne, Flagm

Subscribed and sworn to before me this 12th. day of September, 1902., 19

SEAL

Harvey L. Heist
U.S. Deputy Surveyor.

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Sixth Standard Parallel South, through Range 3 East.

chains

Survey commenced September I2th, I902, and executed with the instrument described in book "D" of this survey; I examine the adjustment of the instrument and find them correct, then, to test the solar apparatus, by comparing its indications, resulting from solar obs observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows;

At the standard cor. of T.30 S., Rs.3 and 4 E., set by me, this day., Lat. 38°09'30"N., Long. III°33'58"W.

I set off 38°09'N. on the lat. arc; 4°I8'N. on the decl. arc; and at 4h.0m., p.m., l.m.t., determine with the solar a meridian and mark the point three of, on a stone firmly in the ground 5 chs. N. of my station.

At 8h.4m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with manual of instructions and mark the point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

September I2th. I902.

September I3th. I902., At 7h.0m., a.m., l.m.t., I lay off the azimuth of Polaris, I°33' to the W. and mark the meridian thus determined, by cutting a small groove in the stone set September I2th. on which the meridian falls 0.3 ins. east of the mark determined by the solar. At 8h.0m., a.m., l.m.t., I set off 38°09'N. on the lat. arc; 4°03'N. on the 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 0.3 ins. east of the meridian established by the Polaris observation.

The solar apperatus, by p.m. and a.m. observations, defines positions for meridians, about 0'I6" on each side of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

Sixth Standard Parallel South, through Range 3 East.

chains	
	The magnetic bearing of the true meridian at 8h15m.a.m., l.m.t., is N.15°30'W., the angle thus determined gives the mag.decl.15°30' E.
	From the standard cor. previously described, I run West, on the tangent, S. of sec.36.
	ascend over broken land, and boulders, through scattering pine timber.
	Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 6 lks.; position of middle point
	By 1st. set, 40.03 chs.
	By 2nd. set 39.97 chs.; the mean of which is
40.00	N. $\frac{1}{4}$ lk. from the tangent,
	Set a trachyte stone 18X14X12 ins. 12 ins. in the ground for standard $\frac{1}{4}$ sec. cor., marked SC$\frac{1}{4}$ on the N. face; from which a pine tree 15 ins. in diam. bears N.62°E. 40 lks. dist. marked SC$\frac{1}{4}$S36 BT. A pine 10 ins. in diam. bears N.79°W. 10 lks. marked SC$\frac{1}{4}$S36 BT.
52.00	Top of divide on Boulder mountain, bears N. and S.
	descend, through heavy pine timber, bears N.S.
	Difference bet. 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	N. 0.008 lk. from the tangent,
	Set a trachyte stone 18X12X8 ins 12 ins. in the ground for standard cor. to secs. 35 and 36. marked S.C. on the N., with 1 groove on the E. and 5 grooves on the W. faces; From which a pine 4 ins. in diam. bears N.19°E. 19 lks dist., marked T30S R3E S36 BT., A pine 20 ins. in diam. bears N.35°W. 35 lks. dist. marked T30S R3E S35 BT.
	Land, mouhtainous.
	Soil, stony, 3rd. rate.
	Timber, heavy pine.
	Mountainous land or heavily timbered, 80.00 chs.

Sixth Standard Parallel South, through Range 3 East.

chains	
	S.89°59'W. on the tangent, S. of secs. 35.
	Descend over rocky land, through heavy timber, pine.
3.50	Hollow, course N. ascend.
9.50	Spur, projects N. descend.
14.00	Ravine, 100ft. deep, course N. ascend.
23.00	Spur, projects N. descend.
33.70	Begin abrupt descent, bears N. and S.
38.00	Foot of trachyte ledges 150 ft. high, bears N.E. and S.W.
	Difference bet. measurements of 40.00 chs., by two set of chainmen, is 8 lks.; position of middle point
	By 1st. set, 40.04 chs.
	By 2nd. set, 39.96 chs.; the mean of which is
40.00	N.0.018 lks. from the tangent,
	Set a trachyte stone 18X12X5 ins. 12 ins. in the ground for standard ¼ sec. cor. marked SC¼ on the N. face. from which an aspen tree 3 ins. in diam. bears N.38° E. 27 lks. marked SC¼S35 BT. an aspen 3 ins. in diam. N.16°W. 18 lks dist. marked SC¼ S35 BT.
	Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 12 lks., position of middle point
	By 1st. set, 80.06 chs.
	By 2nd. set, 79.94 chs.; the mean of which is
80.00	N.0.032 lks. from the tangent,
	Set a trachyte stone 18X10X8 ins. 12 ins. in the ground for standard cor. of secs. 34 and 35, marked SC on the N. with 4 grooves on the W. and 2 grooves on the E. faces, from which an aspen 4 ins in diam. bears N.14½°E. 13 lks. dist. marked T30S R3E S 35 BT. A pine 14 ins. in diam. bears N.81°W. 22 lks. dist. marked T30S R3E S34 BT.
	Land. mountainous.
	Soil, stony, 3rd. rate.
	Timber, pine.
	Mountainous land and and heavily timbered. 80.00 chs.
	At this cor. I set off 3°58'N. on the decl. arc; and at

Sixth Standard Parallel South, through Range 3 East.

chains

11h56m., a.m., l.m.t. I observe the sun on the meridian the resulting lat. is 38°09' N

S.89°58' W. on the tangent, S. of sec. 34.

Descending over rolling land, through heavy pine and aspen timber.

5.00 Birch creek, 3 lks. wide, pure water flows S.W.

29.00 Birch creek, 3 lks. wide, pure water flows N.W. ascend.

Difference bet. measurements of 40.00 chs. by two sets of chainmen, is 6 lks.: position of middle point

By 1st. set, 40.03 chs.

By 2nd. set, 39.97 chs., the mean of which is

40.00 N.0.05 lks. from the tangent,

Falls on a flat boulder 3X1X1 ft., mark X on boulder for standard ¼ sec. cor. marked SC ¼ on N. side, from which an aspen 4 ins. in diam. bears N.18°E. 47 lks. dist. marked SC ¼ S34 BT. an aspen 5 ins. in diam. bears N.5°W. 57 lks. marked SC ¼ S 34 BT.

45.00 Spur, projects N.W. descend.

78.00 Irrigation ditch, bears N. and S.

Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 10 lks.: position of middle point

By 1st. set, 80.05 chs.

By 2nd. set, 79.95 chs.: the mean of which is

80.00 N.0.07 lks. from the tangent,

Set a trachyte stone 20X8X6 ins. 15 ins. in the ground for standard cor. to secs. 33 and 34. marked SC on the N. with 3 grooves on the E. and W. faces. From which an aspen 3 ins. in diam. bears N.7°E. 105 lks. marked T 30 S R 3 E S 34 BT. An aspen 4 ins. in diam. bears N.9°W. 68 lks. marked T30S R3E S33 BT.

Land, mountainous.

Soil, stony loam, 2nd. and 3rd. rate.

Timber, heavy aspen and pine.

Mountainous land and heavy timber, 80.00 chs.

September 13 th. 1902.

Sixth Standard Parallel South, through Range 3 East.

chains	
	September I4 th.I902.At the point on the tangent 0.07I lks.S.of the standerd cor.of secs.33 and 34.
	I set off 38°09'N. on the lat.arc; 3°40'N.on the decl. arc;and at 8h.0m.,a.m.,l.m.t.,determine a meridian with the solar.Thence I run
	S.89°57'W. on the tangent,S.of sec.33.
	Descending over broken hills,through heavy pine & aspen timber.
I.75	Dry run,course S. ascend.
4.75	Top of knoll, descend.
I5.50	Basin,75 ft.deep,ascend.
34.00	Ridge,bears N.and S.descend.
	Difference bet,measurements of 40.00 chs.by two sets of chainmen,is 4 lks.,position of middle point
	By Ist.set,40.02 chs.
	By 2nd.set,39.98 chs.; the mean of which is
40.00	N.0.095 lks.from the tangent,
	Set a trachyte stone I8XI2X7 ins.I2 ins. in the ground for standard ¼ sec.cor.,marked SC¼ on the N. face.from which an 6 ins. in diam.bears N.I4½°W. 252 lks.dist.marked S.C.¼S33 BT. A pine 30 ins.in diam.bears N.22°30'E.I62 lks.dist.marked S.C.¼S33 BT.
65.00	Basin,75 ft.deep.ascend.
79.00	Basin,50 ft.deep,ascend.
	Difference bet.measurements of 80.00 chs. by two sets of chainmen,is 8 lks.,position of middle point
	By Ist.set,80.04 chs.
	By 2nd.set,79.96 chs.;the mean of which is
80.00	N.0.I3 lks.from the tangent,
	Set a trachyte stone 20XI2XI0 ins.I5 ins.in the ground for standard cor. of secs.32 and33,marked SC on the N.,with 4 grooves on the E. and 2 grooves on the W. faces. from which an aspen 8 ins.in diam.bears N.8I°E. 62 lks.dist. marked T 30 S R3 E S 33 BT. An aspen 5 ins. in diam. bears N.4°W. 207 lks.dist.

Sixth Standard Parallel South, through Range 3 East.

chains

marked T30S R3E S32 BT.

Land, broken.

Soil, stony loam, 3rd. rate.

Timber, pine and aspen.

Heavily timbered, 80.00 chs.

S.89°56'W. on the tangent, S. of sec. 32.

Ascending over rolling land, through sage brush.

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

19.50 Wagon road, bears N. and S.

30.50 Bottom of canon, 250 ft. deep, course N. ascend. through scattering aspen and pine.

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

By 1st. set, 40.04 chs.

By 2nd. set, 39.96 chs., the mean of which is

40.00 N.0.16 lks. from the tangent,

Set a trachyte 18X10X8 ins. 12 ins. in the ground for standard ¼ sec. cor., marked SC¼ on the N. face, from which an aspen 4 ins in diam. bears N.80°W. 164 lks., marked S.C¼S32 BT. no other bearing trees within limits, raise a mound of stone, 2ft. base, 1½ ft. high N. of cor. Pits impracticable.

58.75 Spur, projects N., descend.

75.00 Ravine, 200ft. deep, course N.E. ascend.

76.00 Leave timber, bears N. and S.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 12 lks.; Position of middle point

By 1st. set, 80.06 chs.

By 2nd,, set 79.94 chs., the mean of which is

80.00 N.0.20 lks. from the tangent,

Set a trachyte stone 16X12X8 ins. 11 ins. in the ground, for standard cor to secs. 31 and 32. marked SC on the N. with 5 grooves on the E. and 1 groove on the W. faces, raise a mound of stone 2ft. base, 1½ ft. high N. of cor. Pits impracticable.

Sixth Standard Parallel South, through Range 3 East.

chains	
	Land, mountainous.
	Soil, stony loam, 2nd. and 3rd. rate.
	Timber, scattering pine and aspen.
	Mountainous land, 80.00 chs.
	September I4 th. I902, At this cor. I set off 3°35'N. on the decl. arc: and at IIh56m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°09'N.
	S.89°55'W. on the tangent, S. of sec. 3I.
	Ascending broken and steep slope, through scrub sage brush.
33.00	Enter heavy pine timber, bears N.E. and S.W.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen, is 6 lks., position of middle point
	By Ist. set, 40.03 chs.
	By 2nd. set, 39.97 chs.; the mean of which is
40.00	N.0.23. lks., from the tangent,
	Set a trachyte stone I6XI6XI2 ins. II ins. in the ground for standard ¼ sec. cor., marked SC¼ on the N. face, from which a pine 6 ins. in diam. bears N.82°E. 7 lks. dist. marked SC¼S 3I BT. A pine 7 ins. in diam. bears N.20°W. 24 lks. dist. marked SC¼S3I BT.
	Enter aspen, and pine timber.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen, is I0 lks., position of middle point
	By Ist. set, 40.05 chs.
	By 2nd. set, 39.95 chs., the mean of which is
80.00	N.0.28 lks. from the tangent,
	Top of ridge, 400ft. above cor. of secs. 3I and 32. bears N.E. and S.W.
	Set a trachyte stone I5XI5XI5 ins. I0 ins. in the ground, for standard cor. of T.30S. ., Rs.2&3 E. marked SC on the N., with 6 grooves on the N., E. and W., faces., from which an aspen 6 ins. in diam.

Sixth Standard Parallel South, through Range 3 East.

chains

bears N.30°E.7 lks. dist. marked T30S R3E S31 BT., An aspen 6 ins. in diam. bears S.45°E.10 lks dist. marked T31S R3E S6 BT., An aspen 5 ins. in diam. bears S.17½°W.50 lks. dist. marked T31S R2E S1 BT. An aspen 6 ins. in diam. bears N.42°W. 45 lks. dist. marked T30S R2E S36 BT.

Land, mountainous.

Soil, stony loam, 3rd. rate.

Timber, pine and aspen.

Mountainous land *or* heavily timbered, 80.00 chs.

September 14th. 1902.

Note: For general discription see subdivision of this township.

Harvey M. Kirst

U.S. Deputy Surveyor.

There being no notary public or other officer authorized to administer oaths within a reasonable distance, at the beginning or ending of this survey, in order to save time and expense I administer the preliminary and final oaths myself.

Harvey M. Kirst

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 marking the lines and corners described in the foregoing field notes of the survey of the Sixth Standard Parallel South, through Range No. 3 E. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

Earl V. Woolley — William Walquist, *Chainman.*
Arthur N. Munger — Oley Sorenson, *Chainman.*
Arthur Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in surveying all those parts or portions of the Sixth Standard Parallel South, through Range No. 3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by 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.

Earl V. Woolley — William Walquist, *Chainman.*
Arthur N. Munger — Oley Sorenson, *Chainman.*
Arthur N. Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

Subscribed and sworn to before me this 14th day of September, 1902.

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 the 12th day of February, 1902, 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 Sixth Standard Parallel South through Range No. 3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist
United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1903, 189

Edward H. Anderson
Surveyor-General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 26 1904 189

The foregoing field notes of the survey of The Sixth Standard Parallel South through Range 3 East of the Salt Lake Base and Meridian, Utah executed by Harvey D. Heist under his contract No. 251, dated February 12 1902, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
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-296

FIELD NOTES

OF THE SURVEY OF THE

F-R-E-M-O-N-T V-A-L-L-E-Y C-U-I-D-E M-E-R-I-D-I-A-N

through

Township No.30 South,

Of the Salt Lake Base and *Meridian,*

in the state of Utah,

AS SURVEYED BY

Harvey D.Heist, *United States Deputy Surveyor,*

Under his Contract No. 251, *dated* February 12, 1902.

Survey commenced September 14,1902. *189*

Survey completed September 15,1902. *189*

6—151

G. M. - high - 1-04-50 ✓
" low - 4-75-50 ✓

6-00.00

NAMES AND DUTIES OF ASSISTANTS.

Earl V.Woolley	Chainman
Arthur N.Munger	"
William Walquist	"
Olev Sorenson	"
Arthur Munger	Moundman
Olev Sorenson	"
Harry Payne	Axman
Harry payne	Flagman

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BOOK A-296

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Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

We, Earl V. Woolley, Arthur N. Munger, William Walquist and Oley Sorenson 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 Fremont Valley Guide Meridian, through T. 30 S., bet. Rs. 2 and 3 E. of the Salt Lake Base and Meridian, Utah.

Earl V. Woolley, William Walquist, Chainman.
Arthur N. Munger, Oley Sorenson, Chainman.

Subscribed and sworn to before me this 14th. day of September, 1902, 18

SEAL

Harvey M. Reist
U.S. Deputy Surveyor

We, Arthur N. Munger and Oley Sorenson 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 Fremont Valley Guide Meridian, through T. 30 S., bet. Rs. 2 and 3 E. of the Salt Lake Base and Meridian, Utah.

Arthur N. Munger, Moundman.
Oley Sorenson, Moundman.

Subscribed and sworn to before me this 14th. day of September, 1902, 18

SEAL

Harvey M. Reist
U.S. Deputy Surveyor

We, I, Harry Payne and ..... do solemnly swear that ~~we~~ I will well and truly perform the duties of ~~axmen~~ a axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Fremont Valley Guide Meridian, through T. 30 S., bet. Rs. 2 and 3 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Axman.
....., Axman.

Subscribed and sworn to before me this 14th. day of September, 1902, 18

SEAL

Harvey M. Reist
U.S. Deputy Surveyor.

I, Harry Payne, 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 Fremont Valley Guide Meridian, through T. 30 S., bet. Rs. 2 and 3 E. of the Salt Lake Base and Meridian, Utah.

Harry Payne, Flagman.

Subscribed and sworn to before me this 14th. day of September, 1902, 18

SEAL

Harvey M. Reist
U.S. Deputy Surveyor.

Fremont Valley Guide Meridian, through Tps.30 S., bet. Rs.2 and 3 E.

Survey commenced September I4th, I902, and executed with the instrument described in book "A" of this survey; I examine the adjustment of the instrument and find them correct, then to test the solar by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows;

At the standard cor. of Tp. 30 S., Rs.2 and 3 E. on the Sixth Standard Parallel South; Set by me, this day.

lat. 38°09'30"N., long. III°40'34"W., I set off 38°09'N. on the lat. arc; 3°32'N. on the decl. arc; and at 4h.0m., p.m., l.m.t., determine a meridian with the solar and mark a point in the line thereof, on a stone firmly set set in the ground 5 chs. N. of my station.

At 7h.56m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordence with manual of instructions and mark the point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

September I4th., I902.

September I5th. I902., At 7h.0m., a.m., l.m.t., I lay off the azimuth of Polaris, I°33' to the W. and mark the meridian thus determined, by cutting a small groove in the stone set last night. on which the meridian falls at the same point as determined by the solar.

At 8h.0m., a.m., l.m.t., I set off 38°09'N. on the lat. arc; 3°I6'N. on the decl. arc; and determine a meridian with the solar; the line thus determined falls on the same point as that of the p.m. solar and the Polaris observation.

The solar, by p.m. and a.m. observations, determine the position identical; therefore, I conclude the adjustments of the instrument are correct.

The magnetic bearing of the true meridian at 8h0m., a.m., l.m.t., is N. I5°30W, the angle thus determined

Fremont Valley Guide Meridian, through Tp. 30 S., bet. Rs. 2 and 3 E.

chains

gives the mag. decl. I5°30'E.

From the cor. previously described, I run North, bet. secs. 3I and 36.

Descend over rolling land, through heavy pine and aspen timber.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 6 lks.; position of middle point

By Ist. set, 40.03 chs.

By 2nd. set, 39.97 chs.; the mean of which is

40.00 Set a trachyte I8XI0XI0 ins. I2 ins. in the ground for ¼ sec. cor. marked ¼ on the W. face, from which a pine 24 ins. in diam. bears N.6°E. 37 lks. marked ¼S 3I BT. A pine 20 ins. in diam. bears S.33°W. 25 lks. dist. marked ¼S 36.

59.00 Leave heavy timber, bears N.E. and S.W. enter sage brush.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is I2 lks. position of middle point

By Ist. set, 79.94 chs.

By 2nd. set, 80.06 chs.; the mean of which is

80.00 Set a trachyte stone 24XI2XI0 ins. I8 ins. in the ground, for cor. of secs. 25, 30, 3I and 36., marked with I notch on the S. and 5 notches on the N. edges. raise a mound of stone, 2ft. base, I½ ft. high W. of cor. Pits impracticable.

59.00/2100

Land, rolling.

Soil, stony loam, 2nd. and 3rd. rate.

Timber, pine and aspen.

Heavily timbered, 59.00 chs.

—

North, bet. secs. 25 and 30.

Descending over rolling land, through sage brush.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By Ist. set, 40.02 chs.

By 2nd. set, 39.98 chs.; the mean of which is

Fremont Valley Guide Meridian, through Tp.30 S., bet. Rs.2 and 3 E.

chains	
40.00	Set a trachyte stone 20X10X8 ins. 15 ins. in the ground for ¼ sec. cor. marked ¼S on the W. face, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable.
50.00	Head of ravine, course N.E. ascend.
59.00	Ridge, bears N.E. and S.W. descend.
	Difference bet. 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 trachyte stone 24X10X4 ins. 18 ins. in the ground for cor of secs. 19, 24, 25 and 30., marked with 2 notches on the S. and 4 notches on the N. edges., from which a pine 12 ins. in diam. bears S. 51° E. 73 lks. marked T30S R3E S30 BT. no other bearing trees within limits. raise a mound of stone 2ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Land, rolling.
	Soil, stony loam, 2nd. and 3rd. rate.
	No timber.
	—
	North, bet. secs. 19 and 24.
	Descending over rolling land, through sage brush.
33.70	Ravine, 100ft. deep, course N.E. ascend.
38.50	Top of ridge, bears N.E. and S.W. descend.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
	By 1 st. set, 40.01 chs.
	By 2 nd. set, 39.99 chs.: the mean of whith is
40.00	Set a trachyte stone 24X8X8 ins. 18 ins. in the ground for ¼ sec. cor. marked ¼S on the W. face, raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen is 4 lks.: position of middle point

Fremont Valley. Guide Meridian, through Tp. 30 S., bet. Rs. 2 and 3 E.

chains	
	By 1st set, 8002 chs.
	By 2nd set, 7998 chs., the mean of which is
80.00	Set a trachyte stone I4XI2X8 ins. I0 ins. in the ground, for cor. of secs. I3, I8, I9 and 24. marked with 3 notches on the N. and S. edges. raised a mound of stone 2ft. base, I½ft. high W. of cor. Pits impraticable.
	Land, rolling.
	Soil, stony loam, 2nd. and 3rd. rate.
	No timber.
	September I5th. I902, At this cor. I set off 3°II'N. on the decl. arc; and at II h. 55m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°I2'N.
	North, bet secs. I3 and I8.
	Descending over rolling land, through scrub sage brush.
3.40	Ravine, I00ft. deep, course N.E. ascend.
30.00	Flat. ridge, bears N.E. and S.W. descend.
	Difference bet, measurements of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
	By Ist. set, 40.0I chs.
	By 2nd. set, 39.99 chs., the mean of which is
40.00	Set a trachyte stone 24XI4XI0 ins. I8 ins. in the ground, for ¼ sec. cor. marked ¼S on the W. face, raised a mound of stone 2 ft. base, I½ ft. high W. of cor. Pits impracticable.
55.00	Ravine, 50 ft. deep, course N.E. ascend.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen is 3 lks. position of middle point
	By Ist. set, 80.0I½ chs.
	By 2nd. set 79.98½ chs.; the mean of which is
80.00	Set a trachyte stone I8XI0X8 ins. I2 ins. in the ground for cor. of secs. 7, I2, I3 and I8, marked with 2 notches on the N. and 4 notches on the S. edges. raise a mound of stone 2ft. base, I½ft. high W. of cor. Pits impracticable.
	Land, rolling

Fremont Valley Guide Meridian, through Tp.30 S., Rs.2 and3 E.

chains	
	Soil, stony, 2nd. and 3rd. rate.
	No timber.
	North, bet, secs.7 and12.
	Ascending over rolling land, through scrub sage brush.
	Difference bet, measure-ments of 40.00 chs. by two sets of chainmen is 2 lks. position of middle point
	By I st. set, 40.01 chs.
	By 2 nd. set 39.99 chs., the mean of which is
40.00	Set a trachyte stone 24X13X7 ins. 18 ins. in the ground, for ¼ sec. cor., marked ¼S on the W. face. raise a mound of stone 2ft. base, 1½ft. W. of cor.
	Pits impracticable.
50.00	Ridge, bears E. and W. descend.
75.50	Ravine, 75ft. deep, course N.E. ascend.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen is 4 lks. position of middle point
	By Ist. set, 80.02 chs.
	By 2nd. set, 79.98 chs., the mean of which is
80.00	Set a trachyte stone 18X14X6 ins. 12 ins. in the ground for cor. of secs. 1, 6, 7 and12, marked with 1 notch on th the N. and 5 notches on the S. edges, raised a mound of stone 2ft. base, 1½ft. high W. of cor.
	Pits impracticable.
	Land, rolling.
	Soil, stony, 2nd. and3rd. rate.
	No timber.
	North, bet. secs. 1 and6.
	Ascending over rolling land, thtough sage brush.
8.50	Spur. projects, N.E., descend.
13.35	Ravine, 50ft. deep, course N.E. ascend.
33.00	Ridge, bears N.E. and S.W. descend.
	Difference bet. measurements of 40.00 chs. by two sets of chainmen is6 lks., position of middle point
	By Ist. set, 40.03 chs.

Fremont Valley Guide Meridian, through Tp.30 S., Rs.2 and 3 E.

chains	
	By 2nd.set, 39.97 chs.: the mean of which is
40.00	Set a trathyte stone 24X10X4 ins. 18 ins. in the ground for ¼ sec.cor., marked ¼S on the W face, raise a mound of stone 2ft.base, 1½ft.high W of cor.
	Pits impracticable.
48.50	Wagon road, from Thurber to Boulder, bears N.E.andS.W.
53.50	Ridge, bears N.E.andS.W. descend.
54.50	Enter heavy timber, bears E.andW. cedar and pinon.
75.50	Ravine, 60 ft.deep, course N.W. ascend.
78.25	Spur, projects N.W. descend.
	Difference bet.measurements of 80.00 chs.by two sets of chainmen is 14 lks. position of middle point
	By 1st.set, 80.07 chs.
	By 2nd.set, 79.93 chs.; the mean of which is
80.00	Set a trachyte stone 18X12X10 ins.12 ins.in the ground for cor. of Tp.29 and 30 S., Rs.2 and3 E. marked with 6 notches on each edge, from which a pinon 10 ins.in diam.bears N.32½°E.30 lks.dist. marked T29S R3E S31 BT., A pinon 18 ins.in diam.bears S.29°E.39 lks.dist.marked T30S R3E S6 BT., A pinon 12 12 ins. in diam.bears S.86½°W.35 lks. dist. marked T30S R2E S1 BT., A pinon 8 ins.in diam.bears N.28½°W. 54 lks.dist., marked T29S R2E S36 BT.
	Land, rolling.
	Soil, stony, 3rd.rate.
	Timber, heavy cedar andpinon.
	Heavily timbered, 25.50 chs.

September 15 th.1902.

Note: For general discription see subdivision of this Tp.

Harvey L. Hirst

U.S.Deputy Surveyor.

There being no notary public or other officer, authorized to administer oaths within a reasonable distance, at the beginning or ending of this survey, in order to save time and expense, I administer the preliminary and final oaths myself.

Harry M. 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 Harvey D.Heist, 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 Fremont Valley Guide Meridian, through T.30 S., bet.Rs.2 and 3 E. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

Earl V.Woolley William Walquist, *Chainman.*
Arthur N.Munger Oley Sorenson, *Chainman.*
Arthur N.Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in surveying all those parts or portions of the the Fremont Valley Guide Meridian, through T.30 S., bet.Rs.2 and 3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by 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.

Earl V Woolley William Walquist, *Chainman.*
Arthur N Munger Oley Sorenson, *Chainman.*
Arthur N Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

Subscribed and sworn to before me this 15th. day of September, 1902.

SEAL

Harvey D. Heist
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 12th. day of February, 1902., 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 Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Fremont Valley Guide Meridian, through T. 30 S., bet. Rs. 2 and 3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1903., 189

Edward H. Anderson
Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26 1904 ~~189~~

The foregoing field notes of the survey of the Fremont Valley Guide Meridian through Township 30 South Between Ranges 2 & 3 East of the Salt Lake Base and Meridian Utah

executed by Harvey D. Heist under his contract No. 251, dated February 12 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-296

FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N L-I-N-E-S

of

Township No.30 South, Range No.3 East,

of the Salt Lake Base and *Meridian,*

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist, *United States Deputy Surveyor,*

Under his Contract No. 351, *dated* February 12, 1902.

Survey commenced September 17.1902. *189*

Survey completed September 29,1902. *189*

4—411

high 40-64-48 ✓
low 19-15-45 ✓

19-79-93

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

William Walquist	Chainman
Earl V.Woolley	"
Arthur N.Munger	Moundman
Oley Sorenson	"
Harry Payne	Axman
Harry Payne	Flagman

For preliminary office work see book C. Tp 285 R 4 E

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BOOK A-296

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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

.....

..... *Chainma*

..... *Chainma*

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 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 ....., 189

SEAL

.....

.....

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

.....

..... *Axman*

..... *Axman*

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

SEAL

.....

.....

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

..... *Flagman*

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

SEAL

.....

.....

Survey commenced September 17,1902, and executed with the instrument described in book "D" of this survey. I examine the adjustment of the instrument, and find it correct, then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by Polaris, I proceed as follows:-
At the standard corner of secs.35 and 36, on Sixth Standard Parallel South, established by me Sept.13th. in latitude 38°00'30" N., longitude 111°35'04" W., I set off 38°09'N. on the lat. arc, 2°22'N. on the decl. arc, and at 4 h.p.m.l.m.t. determine with the solar a meridian, and mark the point thereof, on a stone firmly set in the ground, 5.00 chs.N. of my station.
At 7 h.44 m.p.m.l.m.t. I observe Polaris at eastern elongation in accordance with the instructions of the Manual and mark a point in the line thus determined on a peg driven in the ground 5.00 chs.N. of my station.

Sept. 17, 1902.

Sept.18,1902, at 7 h.a.m.l.m.t. I lay off the azimuth of Polaris 1°33' to the west and mark the meridian thus determined by cutting a small groove in the stone set Sept.17th., on which the meridian falls 0.3 ins. E. of the mark determined by the solar.
At 8 A.M.l.m.t. I set off 38°09'N. on the lat. arc, 2° 08'N. on the decl. arc, and mark a point in the meridian determined with the solar by a cross on the stone already set 5.00 chs.N. of my station. This mark falls 0.3 ins. E. of the meridian established by Polaris observation.
The solar apparatus by p.m. and a.m. observations, defines positions for meridians about 0'16" E. and W.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	of the meridian established by Polaris observation, therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8 h. 30 m. a.m. l.m.t. is N.15°30'W. the angle thus determined gives the magnetic declination 15°30'E.
	From the standard cor. prisecs. 35 and 36, on S. Bdy. of Tp. heretofore described, I run N.0°01'W. bet. secs. 35 and 36
	Ascending over broken land, through heavy pine and aspen timber.
22.00	Divide of Boulder Mountain, bears N.W. and S.E.
	Thence along side of mountain.
40.00	Set a trachyte stone 15x10x9 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, from which
	An aspen 3 ins. diam. bears E. 6 lks. dist., marked ¼ S 36 B T.
	An aspen 4 ins. diam. bears N.80°W. 15 lks. dist. marked ¼ S 35 B T.
71.00	Divide Boulder Mountain, bears N.E. and S.W.
	Descend abruptly.
80.00	Set a trachyte stone 18x10x10 ins. 12 ins. in the ground for corner of secs. 25-26-35 and 36, marked with 1 notch on E. and 1 notch on S. edges, from which
	A pine tree 3 ft. diam. bears N.72°E. 33 lks. dist. marked T.30 S R 3 E S 25 B T.
	A pine tree 5 ins. diam. bears S.87°E. 10 lks. dist., marked T.30 S R 3 E S 36 B T.
	A pine tree 6 ins. diam. bears S.51°W. 27 lks. dist., marked T 30 S R 3 E S 35 B T.
	A pine 12 ins. diam. bears N.34°W. 62 lks. dist., marked T 30 S R 3 E S 26 B T.
	Land mountainous.
	Soil stony: 3rd. and 4th. rates.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.

Timber heavy pine and aspen.

Mountainous land and heavily timbered 80.00 chs.

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

4.00 Set temp. ¼ sec. cor.

80.10 Intersect E. bdy. of Tp. 3 lks. S. of the corner of secs. 25-30-31 and 36, heretofore described. Thence I run

S. 89°59'W. on a true line bet. secs. 25 and 36

Ascending through heavy pine and aspen timber.

½ sec. cor. will fall in marsh, therefore at

39.00 Set a trachyte stone 24x10x5 ins. 18 ins. in the ground for witness cor. for ¼ sec. cor., marked W C ¼ S. on N face; from which

An aspen 3 ins. diam. bears N. 10 lks. dist., marked W C ¼ S 25 B T.

An aspen 4 ins. diam. bears S. 10°E. 5 lks. dist. marked W C ¼ S 36 B T.

Enter marshy ground, bears N. and S.

40.05 ½ sec. cor. falls in marsh and is not set.

46.00 Leave marsh, bears N.E. and S.W.

74.00 Divide of Boulder Mountain bears N.E. and S.W.

Abrupt descent.

80.10 The cor. of secs. 25-26-35 and 36.

Land mountainous.

Soil stony and loam; 2nd. and 4th. rate.

Timber pinon pine and aspen.

Mountainous land 80.10 chs.

At this cor. I set off 2°03'N. on the decl. arc, and at 11 h. 54 m. a.m. l.m.t. observe the sun on the meridian the resulting lat. is 38°10'N.

N. 0°01'W. bet. secs. 25 and 26

Descending through heavy pine timber.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
10.00	Leave heavy timber; enter open country, bears N.E. and S.W.
20.00	Bottom of ravine, 100 ft. deep, course N.E.
	Ascend, through heavy pine and aspen timber.
40.00	Set a trachyte stone 14x12x8 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen 10 ins. diam. bears S.21°E. 40 lks. dist. marked ¼ S 25 B T .
	An aspen 5 ins. diam. bears N.40°W. 25 l. s. dist. marked ¼ S 26 B T .
51.00	Ridge, bears N.E. and S.W.
	Descend.
60.00	Lake bears E. 12 chs. dist. Lake 20 chs. long N.E. and S.W., and 5 chs. wide.
63.00	Hollow bears E. and W.
80.00	Set a trachyte stone 20x12x6 ins. 15 ins. in the ground, for corner of secs. 23-24-25 and 26, marked with 1 notch on E. and 2 notches on S. edges; from which
	An aspen 4 ins. diam. bears N.32°E. 27 lks. dist. marked T 30 S R 3 E S 24 B T .
	An aspen 7 ins. diam. bears S.77°E. 16 lks. dist. marked T 30 S R 3 E S 25 B T .
	An aspen 6 ins. diam. bears S.45°W. 6 lks. dist. marked T 30 S R 3 E S 26 B T .
	An aspen 8 ins. diam. bears N.36°W. 13 lks. dist. marked T30 S R 3 E S 23 B T .
	Land mountainous.
	Soil loam and stony; 2nd. and 4th. rates.
	Timber heavy pine and aspen.
	Mountainous land, or heavily timbered 80.00 chs.

N.83°59'E. on a random line bet. secs. 24 and 25

SUBDIVISION OF T. 30 S. R. 3 E.

CHAINS	
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. at the cor. of secs. 19-24-25 and 30, heretofore described. Thence I run S. 83°50' W. on a true line bet. secs. 24 and 25 Ascend over rocky land.
40.00½	Set a trachyte stone 20x14x6 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
47.00	Top of Boulder Mountain; ridge bears N.E. and S.W. Abrupt descent.
44.35	Enter heavy pine and aspen timber.
53.00	Descend over boulders bear N.E. and S.W.
[illegible]	Foot of abrupt descent; leave boulders bear N.E. and S.W.
	N. end of [illegible], 1 [illegible] S.W.
	Ascend, through heavy pine and aspen timber, bears N. E. and S.W.
[illegible]	The cor. of secs. [illegible] and [illegible].
	[illegible]
	Coal stony; [illegible] and [illegible] rates.
	[illegible] aspen and pine.
	Mount [illegible] land [illegible] cor.

September 18, 1902.

September 19, at the cor. of secs. [illegible] and [illegible], I set off [illegible]°11' N. on the lat. arc; 1°44' N. on the decl. arc, and at 8 h. a. m. l. m. t. determine a meridian with the solar. Thence I run

N. 0°01' W. bet. secs. 23 and 24

Ascending over rolling land, through heavy pine and aspen timber.

12.00	Spur of mountain, projects W. 600 ft. above sec. cor.
22.00	Enter dead and fallen timber, bears N.W. and S.E.
27.00	Leave dead and fallen timber, bears E. and W.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
40.00	Falls on trachyte boulder, 4x2x2 ft. above ground, for ¼ sec. cor. marked ¼ on W. face; from which
	An aspen 3 ins. diam. bears N.74°E. 14 lks. dist. marked ¼ S 24 B T .
	A pine 8 ins. diam. bears S.85°W. 30 lks. dist., marked ¼ S 23 B T .
59.50	Hollow, drains S.W.; ascend.
80.00	Set a trachyte stone 20x16x10 ins. 15 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; from which
	A pine 10 ins. diam. bears N.45°E. 57 lks. dist., marked T 30 S R 3 E S 13 B T .
	A pine 13 ins. diam. bears S.61½°E. 22 lks. dist. marked T 30 S R 3 E S 24 B T .
	A pine 5 ins. diam. bears S.59°W. 18 lks. dist. marked T 30 S R 3 E S 23 B T .
	A pine 14 ins. diam. bears N.60°W. 116 lks. dist. marked T 30 S R 3 E S 14 B T .
	Land mountainous.
	Soil stony; 3rd. and 4th. rates.
	Timber pine and aspen.
	Mountainous land and heavily timbered 80.00 chs.

	N.89°59'E. on a random line bet. secs. 13 and 24
40.00	Set temp. ¼ sec. cor.
80.04	Intersect E. bdy. of Tp. 2 lks. N. of the cor. of secs. 13 18-19 and 24, heretofore described.
	Thence I run
	W. on a true line bet. secs. 13 and 24.
	Over nearly level land through marshy ground.
9.00	Leave marsh bears N. and S.
	Ascend through boulders.
21.00	Enter heavy aspen and pine timber, bears N. and S.
23.00	Divide of Boulder Mountain; ridge bears N.E. and S.W.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Descend abruptly. Leave heavy timber.
40.02	Falls on boulder 3x2x2 ft. above ground, for ¼ sec. cor., marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
69.00	Foot of abrupt descent; enter heavy pine and aspen timber.
71.00	Leave boulders, bear N. and S. Ascend.
72.00	Spur, projects S.
	Descend.
80.04	The cor. of secs. 13-14-23 and 24.
	Land mountainous and level.
	Soil stony loam; 2nd. and 4th. rates.
	Timber pine and aspen.
	Mountainous land and heavily timbered 71.04 chs.
	September 19, 1902, At this cor. I set off 1°38' N. on the decl. arc, and at 11 h. 54 m. a.m. l.m.t., observe the sun on the meridian; the resulting lat. is 38° 12' N.

N. 0°01' W. bet. secs. 13 and 14,

	Ascending through heavy pine and aspen timber.
5.00	Spur projects S.W.
	Descend, through burnt timber.
34.00	Enter boulders, bear E. and W.
40.00	Falls on boulder 3x2x1 ft. above ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A pine 12 ins. diam. bears S. 47° W. 64 lks. dist., marked ¼ S 14 B T .
	A pine 8 ins. diam. bears S. 38° E. 80 lks. dist., marked ¼ S 13 B T .
42.00	Center of old crater,
	Ascend.
55.00	Rocky spur, projects S.W.; leave boulders.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
67.00	Hollow, drains S.W.
71.00	Rocky spur, projects S.W.
80.00	Set a trachyte 18x12x10 ins. 12 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; from which
	A pine 8 ins. diam. bears N. 34°E. 32 lks. dist., marked T 30 S R 3 E S 12 B T .
	An aspen 5 ins. diam. bears S. 27°E., 30 lks. dist. marked T 30 S R 3 E S 13 B T .
	A pine 8 ins. diam. bears S. 2°W. 67 lks. dist.; marked T 30 S R 3 E S 14 B T .
	An aspen 4 ins. diam. bears N. 36°W. 31 lks. dist. marked T 30 S R 3 E S 11 B.T.
	Land mountainous.
	Soil stony; 4th. rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	East on a random line bet. secs. 12 and 13
40.00	Set temp. ½ sec. cor.
80.01	Intersect E. bdy. of Tp. 5 lks. S. of the cor. of secs. 7-12-13 and 18, heretofore described.
	Thence I run
	S. 89°58' W. on a true line bet. secs. 12 and 13
	Descending through heavy pine and aspen timber.
19.00	Ravine 300 ft. deep, course N.
	Ascend.
40.00½	Set a trachyte stone 18x12x6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	A pine 6 ins. diam. bears S. 38°E. 16 lks. dist., marked ¼ S 13 B T .
	A pine 7 ins. diam. bears N. 37°W. 35 lks. dist., marked ¼ S. 12 B. T
40.50	Ridge bears N. and S.; descend abruptly.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Over boulders.
65.00	Leave boulders bear N. and S.
80.01	The cor. of secs. 11-12-13 and 14.
	Land mountainous.
	Soil stony 4th. rate.
	Timber pine and aspen.
	Mountainous land 80.01 chs.
	September 19, 1902.

September 20, 1902, at the cor. of secs. 11-12-13 and 14, I set off 1°21'N. on decl. arc; 38°13'N. on the lat. arc, and at 8 a.m. l.m.t. determine a meridian with the solar.

Thence I run N.0°01'W. bet. secs. 11 and 12

Descending through heavy pine and aspen timber.

6.00	Hollow, drains W. Ascend.
40.00	Set a trachyte stone 24x12x9 ins. 18 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pine 8 ins. diam. bears N.39°E. 23 lks. dist. marked ¼ S 12 B T .
	A pine 7 ins. diam. bears N.86½°W. 9 lks. dist. marked ¼ S 11 B T .
41.00	Top of rocky ridge, bears N.E. and S.W.
	Descend.
70.00	Ravine 300 ft. below ridge, drains N.E.; ascend.
80.00	Top of ridge, bears N.E. and S.W.
	Set a trachyte stone 20x12x12 ins. 15 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 1 notch on the E. and 5 notches on S. edges; from which
	A pine 12 ins. diam. bears N.64°E. 32 lks. dist. marked T 30 S R 3 E S 1 B T .
	A pine 15 ins. diam. bears S.35°E. 20 lks. dist., marked T 30 S R 3 E S 12 B T .
	A pine 10 ins. diam. bears S.4°W. 30 lks. dist., marked T 30 S R 3 E S 11 B T .

SUBDIVISION OF T. 30 S. R. 3 E.

CHAINS.	
	A pine 8 ins. diam. bears N. 54° W. 32 lks. dist., marked T 30 S R 3 E S 2 B T .
	Land mountainous.
	Soil stony; 4th. rate.
	Timber pine and aspen.
	Mountainous land and heavily timbered 80.00 chs.
	N. 89° 58' E. on a random line bet. secs. 1 and 12
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 3 lks. S. of the cor. of secs. 1 6-7 and 12, heretofore described.
	Thence I run
	S. 89° 57' W. on a true line bet. secs. 1 and 12
	Ascending through heavy pine and aspen timber.
5.50	High spur, projects S. W.; descend.
38.00	Ravine 250 ft. deep, course N. E.; ascend.
40.00	Set a trachyte stone 20x10x5 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ . on N. face; from which
	An aspen 7 ins. diam. bears N. 8° W. 21 lks. dist. marked ¼ S 1 B T .
	An aspen 6 ins. diam. bears S. 11° E. 21 lks. dist. marked ¼ S 12 B. T .
49.00	Ridge bears N. E. and S. W.; descend.
79.00	Ravine 100 ft. deep, course N. E.; ascend.
80.00	Top of ridge, bears N. E. and S. W.
	The cor. of secs. 1-2-11 and 12.
	Land mountainous.
	Soil stony 4th. rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	September 20, 1902, at this cor. I set off 1° 16' N. on the decl. arc, and at 11 h. 54 m. a. m. l. m. t. observe the

SUBDIVISION OF T.30 S.R.3 E.

CHAINS	
	S. sun on the meridian, the resulting lat. is 38°14'N.
	N. 0°01'W. on a random line bet. secs. 1 and 2
40.00	Set temp. ¼ sec. cor.
80.25	Intersect N. bdy. of Tp. 3 lks. E. of the cor. of secs. 1-2-35 and 36, heretofore described.
	Thence I run
	S. 0°02'E. on a true line bet. secs. 1 and 2
	Ascending through heavy pine and aspen timber.
22.00	Rocky ridge, 400 ft. above cor., bears N.E. and S.W.
	Descend.
27.00	Ravine 150 ft. deep, course N.E.
	Ascend.
40.25	Set a trachyte stone 18x14x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pine 8 ins. diam. bears S.10°W. 33 lks. dist. marked ¼ S.2 B T.
	A pine 12 ins. diam. bears N.20°E. 15 lks. dist. marked ¼ S 1 B T.
80.25	The cor. of secs. 1-2-11 and 12.
	Land mountainous.
	Soil stony; 4th. rate.
	Timber pine and aspen.
	Mountainous land on 80.25 chs.
	September 20, 1902.

September 21, 1902, at the standard cor. of secs. 34 and 35 on S. bdy. of Tp., heretofore described, I set off 38°09'N. on the lat. arc, 0°58'N. on the decl. arc, and at 8 h. 0 m. a.m. l.m.t., determine a meridian with the solar. Thence I run

N. 0°01'W. bet. secs. 34 and 35

Descending through heavy pine and aspen timber.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.

4.00 Birch Creek, 4 lks. wide, pure water flows S.W.

Ascend.

40.00 Falls on trachyte boulder, 15x12x10 ins. above ground, marked ¼ on W. face, from which

An aspen 4 ins. diam. bears E. 5 lks. dist., marked ¼ S.35 B.T.

An aspen 4 ins. diam. bears S.5°W. 6 lks. dist., marked ¼ S.34 B.T.

63.00 Top of mountain ridge, bears E. and W.

80.00 Set a trachyte stone 20x15x14 ins. 15 ins. in the ground for cor. of secs. 26-27-34 and 35; marked with 1 notch on S. and 2 notches on E. edges, from which

An aspen 3 ins. diam. bears N.64°E. 9 lks. dist. marked T.30 S.R 3 E S 26 B T .

An aspen 5 ins. diam. bears S.25°E. 35 lks. dist. marked T.30 S R 3 E S 35 B T .

An aspen 9 ins. diam. bears S.36°W. 23 lks. dist., marked T 30 S R 3 E S 34 B T .

A pine 7 ins. diam. bears N.58°W. 11 lks. dist., marked T 30 S R 3 E S 27 B T .

Land mountainous.

Soil stony loam; 3rd. rate.

Timber pine and aspen.

Mountainous land, and heavily timbered 80.00 chs.

East on a random line bet. secs. 26 and 35

40.00 Set temp. ¼ sec. cor.

80.10 Intersect N. and S. line 5 lks. N. of the cor. of secs. 25-26-35 and 36. Thence I run

N.89°58'W. on a true line bet. secs. 26 and 35.

Descending through heavy pine timber.

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

7.00 Ravine, 200 ft. deep, course N.E.

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CHAINS.	
15.00	Enter heavy pine and aspen timber, bears N. and S.
40.05	Set a trachyte stone 15x10x6 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ S. on N. face; from which
	A pine 10 ins. diam. bears S.86°E. 27 lks. dist., marked ¼ S 35 B T .
	An aspen 3 ins. diam. bears N.16°W. 31 lks. dist., marked ¼ S 26 B T .
45.25	Spur ridge of mountain, bears S.W. and N.E.
80.10	The cor. of secs. 26-27-34 and 35, 800 ft. below ¼ sec. cor.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land, and heavily timbered 80.10 chs.
	September 21, 1902, at this cor. I set off 0°53' N. on the decl. arc, and at 11 h. 53 m. a.m. l.m.t., I observe the sun on the meridian, the resulting lat. is 38°10' N.

N. 0°01' W. bet. secs. 26 and 27.

	Descend through heavy pine and aspen timber.
12.50	Enter heavy aspen ; leave pine timber, bears E. and W.
20.50	Ravine, 75 ft. deep, course N.W.
	Ascend.
40.00	Set a trachyte stone 14x12x10 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ S. on W. face;, from which
	An aspen 5 ins. diam. bears S.47°W. 6 lks. dist., marked ¼ S 27 B T .
	An aspen 3 ins. diam. bears S.36°E. 5 lks. dist. marked ¼ S 26 B T .
51.00	Spur, projects N.W. ; descend.
63.00	Ravine, 75 ft. deep, course N.W.

SUBDIVISION OF T.30 S R.3 E.

CHAINS.

67.50 Spur, projects N.W.; descend.

74.00 Hollow, 50 ft. deep, course W.

80.00 Set a trachyte stone 15x10x8 ins. 10 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked with 2 notches on E. and 2 notches on S. edges; from which

An aspen 4 ins. diam. bears N.33°E. 19 lks. dist., marked T 30 S R 3 E S 23 B T .

An aspen 3 ins. diam. bears S.67°E. 6 lks. dist., marked T 30 S R 3 E S 26 B T .

An aspen 4 ins. diam. bears N.18°W. 3 lks. dist., marked T 30 S R 3 E S 22 B T .

An aspen 4 ins. diam. bears S.53°W. 2 lks. dist., marked T 30 S R 3 E S 27 B T .

Land mountainous.

Soil stony; 3rd. rate.

Timber pine and aspen.

Mountainous land, and heavily timbered 80.00 chs.

S.89°58'E. on a random line bet. secs. 23 and 26

40.00 Set temp. ¼ sec. cor.

80.07 Intersect N. and S. line 5 lks. S. of the cor. of secs. 23-24-25 and 26.

Thence I run

W. on a true line bet. secs. 23 and 26.

Ascending through heavy pine and aspen timber.

18.00 Spur ridge, projects S.W.; descend.

40.07½ Set a trachyte stone 15x10x8 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which

A pine 7 ins. diam. bears N. 12 lks. dist., marked ¼ S 23 B T .

An aspen 3 ins. diam. bears S.30°W. 33 lks. dist. marked ¼ S 26 B T .

80.07 The cor. of secs. 22-23-26 and 27.

SUBDIVISION OF T.30 S.R.3 E.

CHAIN 3.	This corner is 800 ft. below cor. of secs. 23-24-25 and 26.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine amd aspen.
	Mountainous land 80.07 chs.
	September 21, 1902.

	Sept. 22: At 8 a.m. At the cor. of secs. 22-23-26 and 27, I set off 38°11'N. on the lat. arc; 0°35'N. on the decl. arc, and determine a meridian with the solar, Thence I run
	N. 0°01'W. bet. secs. 22 and 23,
	Descending through heavy aspen timber.
40.00	300 ft. below sec. cor., falls on a trachyte boulder, 20x16x8 ins. above ground, for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen 2 ins. diam. bears E. 3 lks. dist., marked ¼ S 23 B T.
	An aspen 2 ins. diam. bears N. 45°W. 5 lks. dist., marked ¼ S 22 B T.
40.20	Old drag road, bears SE. and NW., and bottom of ravine course W.; ascend.
56.00	Ridge bears N.W. and S.E.
	Descend.
77.00	Ravine, 100 ft. deep, 300 ft. below ridge, course W.
	Ascend.
80.00	Falls on trachyte boulder 8x6x2 ft. above ground, for cor. of secs. 14-15-22 and 23, marked (X) on boulder, with 3 notches on S. and 2 notches on E. sides, from which
	An aspen 5 ins. diam. bears N. 48°E. 25 lks. dist. marked T 30 S R 3 E S 14 B T.
	An aspen 4 ins. diam. bears S. 66½°E. 22 lks. dist.

CHAINS.	
	marked T 30 S R 3 E S 23 B T .
	A pine 15 ins. diam. bears S. 37°W. 44 lks. dist., marked T 30 S R 3 E S 22 B T.
	An aspen 3 ins. diam. bears N. 32°W. 18 lks. dust., marked T 30 S R 3 E S 15 B T .
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land, and heavily timbered 80.00 chs.

	East on a random line bet. secs. 14 and 23
40.00	Set temp. ¼ sec. cor.
80.03	Intersect N. and S. line 2 lks. N. of the cor. of secs. 13-14-23 and 24. Thence I run
	N. 89°59' W. on a true line bet. secs. 14 and 23.
	Descending through heavy pine and aspen timber.
40.01½	Falls on a trachyte boulder, 4x3x2 ft. above ground, for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen 4 ins. diam. bears S. 68°W. 4 lks. dist. marked ¼ S 23 B T .
	An aspen 5 ins. diam. bears N. 1°E. 5 lks. dist., marked ¼ S 14 B T.
45.00	Hollow, course S.W.; ascend.
49.75	Ridge bears N.E. and S.W.; descend. abruptly.
80.03	The cor. of secs. 14-15-22 and 23.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land 80.03 chs.
	The sky being overcast, I take no observation for latitude this day.

SUBDIVISION OF T. 30 S. R 3 E.

CHAINS.	
	N. 0.01' W. bet. secs. 14 and 15
	Ascend through heavy pine and aspen timber.
3.50	Spur, projects W.; descend.
16.50	Spring branch 2 lks. wide, course W.
	Ascend.
24.00	Spur, projects W.; descend.
31.90	Pine Creek, 4 lks. wide, pure water, flows W.; ascend.
40.00	Set a trachyte stone 18x10x5 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A pine 8 ins. diam. bears S. 15° W. 20 lks. dist., marked ¼ S 15 B T.
	An aspen 4 ins. diam. bears S. 22° E. 21 lks. dist., marked ¼ S 14 B T.
	Over rolling W. slope of mountain.
80.00	Set a trachyte stone 22x14x10 ins. 17 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on S. and 2 notches on E. edges; from which
	An aspen 3 ins. diam. bears N. 66° E. 53 lks. dist. marked T 30 S R 3 E S 11 B T.
	A pine 15 ins. diam. bears S. 1° E. 35 lks. dist., marked T 30 S R 3 E S 14 B T.
	An aspen 5 ins. diam. bears S. 27° W., 31 lks. dist. marked T 30 S R 3 E S 15 B T.
	An aspen 3 ins. diam. bears N. 33½° W. 24 lks. dist. marked T 30 S R 3 E S 10 B T.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber, pine and aspen.
	Mountainous land, and heavily timbered 80.00 chs.

	S. 89° 59' E. on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.05	Intersect N. and S. line 3 lks. N. of the cor. of secs.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	11-12-13 and 14. Thence I run
	N.89°58'W. on a true line bet. secs.11 and 14
	Descending through heavy pine and aspen timber.
3.00	Begin abrupt descent, bears N. and S.
13.00	[illegible] ravine, course S.W.; ascend abruptly.
15.60	Top of ridge, bears N.E. and S.W.
	Descend.
40.02½	Set a trachyte stone 14x12x8 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ [illegible] on N. face, from which
	An aspen 3 ins. diam. bears S. 20 lks. dist., marked ¼ S 14 B T .
	An aspen 7 ins. diam. bears N.87°W. 27 lks. dist. marked ¼ S 11 B T .
	Descend gradually, through burnt timber.
63.50	Begin abrupt descent, bears N.E. and S.W.
80.05	The cor. of secs.10-11-14 and 15.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land 80.05 chs.

	N. 0°01'W. bet. secs.10 and 11.
	Descending through heavy pine and aspen timber, and scattering burnt timber.
21.00	Ravine, 200 ft. deep, course N.W.; ascend.
27.00	Leave burnt timber.
29.25	Spur, projects W.
40.00	Set a trachyte stone 20x14x10 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ [illegible], on W. face; from which
	An aspen 3 ins. diam. bears W. 3 lks. dist., marked ¼ S 10 B T .
	An aspen 3 ins. diam. bears N.80°E. 5 lks. dist.

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CHAINS.	
	marked ½ S. 11 B T.
61.00	Ravine, 200 ft. deep, course S.W.
	Ascend.
71.00	Spur, projects W.; descend.
80.00	Set a trachyte stone 22x14x10 ins., 17 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E. edges; from which
	An aspen 7 ins. diam. bears N. 53° E. 26 lks. dist. marked T 30 S R 3 E S 2 B T.
	An aspen 6 ins. diam. bears S. 14° E. 66 lks. dist. marked T 30 S R 3 E S 11 B T.
	An aspen 6 ins. diam. bears S. 16° W. 50 lks. dist. marked T 30 S R 3 E S 10 B T.
	An aspen 6 ins. diam. bears N. 43° W. 9 lks. dist. marked T 30 S R 3 E S 3 B T.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs. September 22, 1902.

September 23, 1902, at the cor. of secs. 2-3-10 and 11, I set off 38°14'N. on the lat. arc; 0°11'N. on the decl. arc, and at 8 a.m. l.m.t., determine a meridian with the solar. Thence I run

S. 89°58'E. on a random line bet. secs. 2 and 11

40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 5 lks. N. of the cor. of secs. 1-2-11 and 12, thence I run

N. 89°56'W. on a true line bet. secs. 2 and 11

Descending through heavy pine and scattering aspen timber.

40.00	Set a trachyte stone 24x12x3 ins. 18 ins. in the ground, for ¼ sec. cor., marked ¼ . on N. face; from which

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	A pine 15 ins.diam.bears N.55°E.10 lks.dist. marked ½ S 2 B T.
	A pine 20 ins.diam.bears S.26°E.12 lks.dist. marked ½ S 11 B T.
42.00	N.end of dry pond,8 chs.diam.;ascend.
52.00	Descend.
74.00	Gulch 100 ft.deep,course N.W.;ascend.
76.00	Leave timber,bears N.and S.;
	Enter dense artemisia.
76.50	Spur projects N.W.;descend abruptly.
80.00	The cor.of secs.2-3-10 and 11.
	Land mountainous.
	Soil stony;3rd.rate.
	Timber pine and aspen.
	Mountainous land 80.00 chs.
	N.0°01'W.on a random line bet.secs.2 and 3
40.00	Set temp.½ sec.cor.
80.05	Intersect N.bdy.of Tp.3 lks.W.of the cor.of secs. 2-3-34 and 35,heretofore described
	Thence I run
	S.on a true line bet.secs.2 and 3,
	Ascending through heavy pine and aspen timber.
1.50	Spur projects N.W.
13.00	Head of ravine,course N.W.
17.50	Ridge bears E.and W.
	Descend.
22.00	Ravine 100 ft.deep,course W.;ascend.
40.05	On top of ridge,bears N.W.and S.E.
	Set a trachyte stone 22x12x9 ins.17 ins.in the ground,for ½ sec.cor.,marked ½ on W.face;,from which
	A pine 12 ins.diam.bears S.85°W.,130 lks.dist. marked ½ S 3 B T.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	A pine tree 12 ins. diam. bears S.80°E.125 lks. dist., marked ½ S 2 B T .
	Descend.
65.00	Gulch, 150 ft. deep, course N.W.
	Ascend.
75.50	Leave heavy pine and aspen timber, bears E. and W.
80.05	The cor. of secs. 2-3-10 and 11.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land 80.05 chs.

From the standard corner of secs. 33 and 34 on S. bdy. of Tp., heretofore described, I run

N.0°02'W. bet. secs. 33 and 34,

	Ascending through heavy pine timber.
9.00	Flat ridge, bears E. and W.
22.00	Center of sheep corral, 100 ft. diam.
23.00	Dry run, course W.
	Ascend.
34.00	Spur ridge, bears S.E. and W.; descend.
38.25	Ravine 75 ft. deep, course E.; ascend.
40.00	On small spur, projects S.E.
	Set a trachyte stone 15x12x10 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which
	A pine 28 ins. diam. bears S.65°E.65 lks. dist. marked ½ S 34 B T.
	A pine 28 ins. diam. bears S.24°W.86 lks. dist. marked ½ S 33 B T .
	Descending over rolling land.
80.00	Set a trachyte stone 18x12x10 ins. 12 ins. in the ground, for cor. of secs. 27-28-33 and 34., marked with 1 notch on S. and 3 notches on E. edges; from which

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CHAINS.	
	An aspen 15 ins. diam. bears N. 70° E., 153 lks. dist., marked T 30 S R 3 E S 27 B T .
	An aspen 14 ins. diam. bears S. 62½° E., 110 lks. dist., marked T 30 S R 3 E S 34 B T .
	An aspen 4 ins. diam. bears S. 21° W., 67 lks. dist. marked T 30 S R 3 E S 33 B T .
	An aspen 7 ins. diam. bears N. 89° W. 93 lks. dist. marked T 30 S R 3 E S 28 B T .
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land, and heavily timbered 80.00 chs.
	East on a random line bet. secs. 27 and 34,
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line 3 lks. N. of the cor. of secs. 26-27-34 and 35,
	Thence I run
	N. 89° 59' W. on a true line bet. secs. 27 and 34
	Descending through heavy pine timber.
30.00	Hollow, course N.
	Enter scattering aspen.
40.04	Set a trachyte stone 20x8x4 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ . on N. face; from which
	An aspen 2 ins. diam. bears N. 4 lks. dist., marked ¼ S 27 B T .
	An aspen 3 ins. diam. bears S. E. 8 lks. dist., marked ¼ S 34 B T .
55.00	Spur projects N. W.; descend abruptly.
77.50	Foot of steep descent, bears N. and S.
79.50	Dry run, course N. W.
80.08	The cor. of secs. 27-28-33 and 34, 1600 ft. below the corner of secs. 26-27-34 and 35.
	Land mountainous.

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CHAINS. Soil stony; 3rd. rate.

Timber pine and aspen.

Mountainous land 80.08 chs.

September 23, 1902.

September 24, 1902. at the cor. of secs. 27-28-33 and 34, I set off 38°10'N. on the lat. arc. 0°13'S. on the decl. arc, and determine a meridian with the solar, at 8 a.m. l.m.t., Thence I run

N. 0°02'W. bet. secs. 27 and 28.

Descending gradually, through heavy aspen timber.

1.00 Leave heavy aspen timber, bears E. and W.

7.00 Center of dry lake, drains N.W.

15.00 Begin ascent, through scattering pine and aspen, bears E. and W.

40.00 Set a trachyte stone 20x10x10 ins. 15 ins. in the ground, marked ¼ . on W. face; from which

A pine 2 ft. diam. bears S.80°W. 200 lks. dist. marked ¼ S 28 B T .

A pine 2 ft. diam. bears N.78°E. 130 lks. dist. marked ¼ S.27 B T .

48.00 Ridge bears E. and W.

Descend.

72.00 Ravine 100 ft. deep, course N.W.

Ascend.

80.00 Set a trachyte stone 24x14x14 ins. 18 ins. in the ground, and mound of stone for cor. of secs. 21-22-27 and 28. Marked 3 notches on E. and 2 notches on S. edges, and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.

Land rolling.

Soil stony; 2nd. and 3rd. rates.

Timber scattering pine and aspen

Mountainous land or heavily timbered on 80.00 chs.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS. S.89°59'E. on a random line bet. secs. 22 and 27

40.00 Set temp. ½ sec. cor.

80.09 Intersect N. and S. line 3 lks. S. of the cor. of secs. 22-23-26 and 27.

Thence I run

W. on a true line bet. secs. 22 and 27.

Ascending through heavy aspen timber.

11.00 Ridge bears N. and S.; descend.

15.00 Begin abrupt descent, bears N. and S.

40.04½ On spur, projecting S.W.

Set a trachyte stone 15x10x8 ins. 10 ins. in the ground, for ½ sec. cor., marked ½ on N. face; from which

A pine 6 ins. diam. bears N. 15 lks. dist., marked ½ S 22 B T.

A pine 6 ins. diam. bears S.W. 10 lks. dist., marked ½ S 27 B T.

Descend.

59.00 Ravine 100 ft. deep, 500 below ½ sec. cor., course N.W.

Ascend.

68.00 Leave pine and aspen timber, bears N. and S.

71.00 Ridge bears N.W. and S.E.

Descend.

80.09 The cor. of secs. 21-22-27 and 28.

Land mountainous.

Soil stony; 3rd. rate.

Timber pine and aspen.

Mountainous land 80.09 chs.

N.0°02'W. bet. secs. 21 and 22.

Ascend, through scrubby sagebrush.

2.00 Flat spur, projects W.; descend.

21.00 Center of basin, drains N.W.

35.00 Road, bears N.W. and S.W.,

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
40.00	Set a trachyte stone 15x12x8 ins.10 ins.in the ground,for ¼ sec.cor.,marked ¼ .on W.face;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
58.00	Ridge bears E.and W.
	Descend.
62.00	Enter heavy aspen timber,bears E.and W.
65.00	Leave timber,bears E.and W.
70.00	. Creek,3 lks.wide,course W.,250 ft.below ridge.
80.00	Set a trachyte stone 18x12x7 ins.12 ins.in the ground,for cor.of secs.15-16-21 and 22,marked T.30 S on N.E.,R.3 E ,on S.E.faces,with 3 notches on S. and 3 notches on E.edges;raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony;3rd.rate.
	Timber aspen.
	September 24,1902,at this cor.I set off 0°17'S.on decl.arc,and at 11 h.53 m.a.m.l.a.t.,observe the sun on the meridian,the resulting lat.is 38°12'N.

	East on a random line bet.secs.15 and 22
40.00	Set temp.¼ sec.cor.
80.07	Intersect the corner of secs.14-15-22 and 23.
	Thence I run
	West on a true line bet.secs.15 and 22
	Descending,through heavy pine and aspen timber.
11.25	Ravine 150 ft.deep,course N.W. ;ascend.
18.00	Ridge bears N.W.and S.E.;descend.
35.50	Head of ravine,course S.W.;ascend.;
	Leave timber bears N.E.and S.W.
40.03½	Set a trachyte stone 15x15x6 ins.10 ins.in the ground,marked ¼ S. on N.face,and raised a mound of

CHAINS.	
	stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
44.50	Spur, projects S.; descend.
53.50	Spring branch, in bottom of ravine, 2 lks. wide, course N.W.; ascend.
55.00	Spur, projects N.
	Descend abruptly.
58.00	Foot of abrupt descent, bears N. and S.
59.75	Road bears N. and S.
69.50	N. end of sheep dipping corral, belonging to R. Taylor, 5.00 chs. diam.
71.20	Spring branch 2 lks. wide, course S.W.
80.07	The cor. of secs. 15-16-21 and 22, 500 ft. below the cor. of secs. 14-15-22 and 23.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	Mountainous land, and heavily timbered 80.07 chs.

N. 0° 02' W. bet. secs. 15 and 16

	Ascending over rolling land.
16.00	Road bears N.W. and S.E.
37.20	Ridge bears N.E. and S.W. Enter scattering cedar and pinon timber.
40.00	Set a trachyte stone 15x12x8 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
52.00	Ravine 50 ft. deep, course S.W.; ascend.
63.00	Spur projects S.W.; descend.
80.00	Set a trachyte stone 15x10x7 ins. 10 ins. in the ground, for corner of secs. 9-10-15 and 16, marked with 4 notches on S. and 3 notches on E. edges; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Land rolling.
	Soil stony; 3rd. rate.
	Timber pine and aspen.
	East on a random line bet. secs. 10 and 15
40.00	Set temp. ½ sec. cor.
80.11	Intersect N. and S. line 5 lks. N. of the cor. of secs. 10-11-14 and 15,
	Thence I run
	N. 89°58' W. on a true line bet. secs. 10 and 15
	Descending through scattering pine timber.
31.50	Ravine 150 ft. deep,
	Spring branch 1 lk. wide, flows down ravine N.W.
[illegible]	Ascend.
33.50	Spur projects N.
	Descend.
40.06½	Falls on trachyte boulder 4x3x2 ft. above ground, for ¼ sec. cor., marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
40.85	Pine Creek, 20 lks. wide, flows N.; ascend.
41.00	Rocky spur, projects N.; descend.
43.15	Spring branch 2 lks. wide, course N.
43.85	Spring 2 lks. wide, course N.
	Leave pine timber. [illegible]
46.25	Gulch 100 ft. deep, course N.E.; ascend.
48.15	Road bears N. and S.
60.00	Jurgenson Bros, saw mill bears N. 60° E. about 25 chs. dist.
68.50	Ridge bears N.E. and S.W.
	Descend.
80.11	The cor. of secs. 9-10-15 and 16, 800 ft. below the cor. of secs. 10-11-14 and 15.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine.
	Mountainous land 80.11 chs.
	September 24, 1902.

September 25, 1902, at the cor. of secs. 9-10-15 and 16 I set off 38°13'N. on the lat. arc; 0°36'S. on the decl. arc arc, and at 8 a.m. l.m.t. determine a meridian with the solar.; Thence I run

N. 0°02'W. bet. secs. 9 and 10

	Descending through scrub sage and scattering cedar and pinon pine.
8.00	Hollow, drains W.
	Ascend.
17.75	Spur projects W.; descend.
24.00	Head of ravine, course W.; ascend.
40.00	Set a trachyte 16x14x4 ins. 11 ins. in the ground, for ½ sec. cor., marked ½ on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
46.00	Spur projects W.
	Descending over rolling land.
76.20	Wagon road bears E. and W.
78.75	Pine Creek, 10 lks. wide, pure water flows W.
	Ascend.
80.00	Set a trachyte 22x14x10 ins. 17 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked 5 notches on S. and 3 notches on E. edges; from which
	An aspen 7 ins. diam. bears N. 53°E. 26 lks. dist., marked T 30 S R 3 E S 3 B T.
	An aspen 6 ins. diam. bears S. 14°E. 66 lks. dist., marked T 30 S R 3 E S 10 B T.
	An aspen 6 ins. diam. bears S. 16°W. 50 lks. dist.,

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	marked T 30 S R 3 E S 9 B T .
	An aspen 6 ins. diam. bears N.43°W.9 lks. dist.,
	marked T 30 S R 3 E S 4 B T .
	Land rolling.
	Soil stony; 3rd. rate.
	Timber scattering cedar and pinon.

	S.89°58'E. on a random line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
80.20	Intersect N. and S. line 9 lks. S. of the cor. of secs. 2-3-10 and 11. Thence I run
	S.89°58'W. on a true line bet. secs. 3 and 10
	Descending abruptly.
20.00	Hollow, drains S.
	Ascend.
27.70	Enter heavy cedar and pinon pine timber., bears N. and S.
29.00	Spur projects S.; descend.
40.10	Falls on trachyte boulder, 30x24x20 ins. above ground for ¼ sec. cor., marked ¼ on N. face; from which
	A pinon pine 12 ins. diam. bears N.14°E.19 lks dist., marked ¼ S.3 B T .
	A pinon pine 10 ins. diam. bears S.19°E.21 lks. dist., marked ¼ S 10 B T .
75.00	Leave cedar and pinon pine timber, bears N.W. and S.E.
75.00	Pine Creek, 5 lks. wide, pure water, flows N.W.
	Enter scattering aspen timber.
76.80	Spur, projects N.; descend.
79.15	Pine Creek, 5 lks. wide, pure water flows S.W.
80.20	The cor. of secs. 3-4-9 and 10.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber cedar and pinon pine.
	Mountainous land 80.20 chs.

SUBDIVISION OF T.30 S R.3 E.

CHAINS.	
	N.0°02'W. on a random line bet. secs.3 and 4
40.00	Set temp. ½ sec. cor.
79.81	Intersect N. bdy. of Tp. 5 lks. E. of the cor. of secs. 3-4-33 and 34, heretofore described. Thence I run
	S.0°04'E. on a true line bet. secs.3 and 4
	Ascending over broken land; through scattering cedar and pinon timber.
39.81	Set a trachyte stone 24x14x6 ins. 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W face; from which
	A pinon pine 6 ins. diam. bears W. 11 lks. dist. marked ¼ S 4 B T .
	A pinon pine 9 ins. diam. bears S.40°E. 22 lks. dist., marked ¼ S 3 B T .
43.70	Spur projects W.
50.50	[illegible] of ravine, course W.
57.40	Spur projects W., 400 ft. above cor.
	Descend.
79.81	The cor. of secs.3-4-9 and 10.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber cedar and pinon pine.
	Mountainous land 79.81 chs.

From the standard corner of secs.32 and 33 on S. bdy. of Tp., heretofore described, I run

N.0°03'W. bet. secs.32 and 33.

Ascending through scattering aspen timber, and scrub sagebrush.

3.50	Knoll; descend over rolling land.
18.50	Hollow drains W.; ascend.
19.50	Leave aspen bears E. and W.
40.00	Set a trachyte stone 15x12x10 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; raised

SUBDIVISION OF T. 30 S. R. 30 E.

CHAINS.	
	a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
43.50	Wagon road, bears N.E. and S.W.
44.50	Spur projects W.; descend.
62.50	Ravine 100 ft. deep, course W.; ascend.
68.50	Spur projects W.; descend.
80.00	Set a trachyte stone 24x14x10 ins., 18 ins. in the ground, and mound of stone for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber scattering aspen.
	Mountainous land 80.00 chs.

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

40.00	Set temp. ¼ sec. cor.
80.03	Intersect the dep. of secs. 27-28-33 and 34, Thence I run
	W. on a true line bet. secs. 28 and 33.
	Ascending over rolling land; through heavy aspen timber.
31.00	Spur 300 ft. above sec. cor.; projects N.
	Descend.
40.01½	Set a trachyte stone 18x18x8 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen 5 ins. diam. bears N.34°E. 35 lks. dist. marked ¼ S 28 B T.
	An aspen 3 ins. diam. bears S.16°W. 25 lks. dist. marked ¼ S 33 B T.
	Leave timber, bears N.E. and S.W.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.

45.35 Road bears N.E. and S.W.

80.03 The cor. of secs. 28-29-32 and 33, 300 ft. below spur.

Land mountainous.

Soil stony; 3rd. rate.

Timber aspen.

Mountainous land, or heavily timbered 80.03 chs.

The sky being overcast, take no observations for latitude this day.

September 25, 1902.

September 26, 1902, at the cor. of secs. 28-29-32 and 33, I set off 38°10'N. on the lat. arc, 1°00'S. on the decl. arc, and at 8 a.m. l.m.t. determine a meridian with the solar. Thence I run

N. 0°03'W. bet. secs. 28 and 29

Descending over rolling land; through scrub sagebrush.

8.00 Ravine, 150 ft. deep, course W.

Ascend.

22.00 Spur projects W.; descend.

30.50 Ravine 100 ft. deep, course N.W.

Ascend.

40.00 On spur, projects W.

Set a trachyte stone 16x10x5 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Descend.

62.00 Ravine 150 ft. deep, course W.

Ascend.

80.00 Set a trachyte stone 30x15x12 ins. 24 ins. in the ground, and mound of stone for cor. of secs. 20-21-28 and 29, marked with 4 notches on the E. and 2 notches on S. edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Land mountainous.
	Soil stony; 3rd. rate.
	No timber.
	Mountainous land 80.00 chs.
	East on a random line bet. secs. 21 and 28
40.00	Set temp. ½ sec. cor.
80.02	Intersect the cor. of secs. 21-22-27 and 28.
	Thence I run
	W. on true line bet. secs. 21 and 28
	Descend, over rolling stony soil.
7.15	Wagon road, bears N.E. and S.W.
20.00	Swale, drains N.W.
32.00	Ridge, bears N.W. and S.E.
40.01	Set a trachyte stone 18x15x5 ins. 12 ins. in the ground, for ½ sec. cor., marked ½ on N. face; from which
	A lone pine 10 ins. diam. bears N. 20° E. 83 lks. dist. marked ½ S.21 B T .
	No other bearing trees within limits.
	Raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
44.00	Hollow, course N.W.
	Ascend.
53.10	Wagon road, bears N.E. and S.W.
56.00	Ridge bears N.W. and S.E.; descend.
80.02	The cor. of secs. 20-21-28 and 29.
	Land rolling.
	Soil stony; 3rd. rate.
	No timber.
	N. 0° 03' W. bet. secs. 20 and 21,
	Ascending over rolling land; through scrub sagebrush.

SUBDIVISION OF T. 30 S. R. 3 E.

CHAINS.	
5.00	Ridge bears N.E. and S.W.; descend.
37.00	Ravine 75 ft. deep, course N.W.; ascend.
40.00	Set a trachyte stone 15x12x9 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raises a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
57.50	Ridge bears E. and W.; descend.
69.75	Ravine 75 ft. deep, course N.W.
	Ascend.
80.00	Set a trachyte stone 15x10x6 ins. 10 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked with 4 notches on the E. and 3 notches on S. edges; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	Land rolling.
	Soil stony; 3rd. rate.
	No timber.
	September 28, 1902, at this cor. I set off 1°04' S. on decl. arc; and at 11 h. 52 m. a. m. l. m. t. observe the sun on the meridian; the resulting lat. is 38°12' N.

East on a random line bet. secs. 16 and 21

40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 5 lks. N. of the cor. of secs. 15-16-21 and 22. Thence I run
	N. 89°58' W. on a true line bet. secs. 16 and 21
	Ascending over rolling land; through scrub sagebrush.
3.60	Spur projects S.; descend.
10.10	Spring branch, 2 lks. wide, flows N.W.
19.90	Wagon road bears N.E. and S.W.
24.15	Same spring branch, flows S.W.
40.02	Set a trachyte stone 18x12x10 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.

SUBDIVISION OF T. 30 S. R. 3 E.

CHAINS.	
	Pits impracticable.
42.00	Spur projects S.; descend.
80.04	The cor. of secs. 16-17-20 and 21.
	Land rolling.
	Soil stony; 3rd. rate.
	No timber.

N. 0° 03' W. bet. secs. 16 and 17

	Descending over rolling land, through scrub sage-brush.
20.00	Hollow, in elbow of canon, drains W.
	Ascend, abruptly.
29.00	Top of abrupt ascent, bears N.W. and S.E.
32.00	Top of ridge, bears E. and W.; descend.
40.00	Set a tracyte stone 15x15x6 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	A pine 14 ins. diam. bears N. 2½° E. 189 lks. dist. marked ¼ S 16 B T.
	No other trees within limits.
42.00	Enter scattering cedar and pinon pine timber.
	Descend abruptly, bears N.E. and S.W.
51.00	Bottom of canon 300 ft. deep, course N.E.; ascend abruptly.
57.00	Spur projects E.; descend.
69.00	Hollow, drains E.; ascend.
80.00	Set a tracyte stone 18x10x4 ins. 12 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on E. and 4 notches on S. edges; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony; 4th. rate.
	Timber scattering cedar and pinon pine.

CHAINS	
	Mountainous land 80.00 chs.
	S.89°58'E. on a random line bet. secs.9 and 10
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line 7 lks. N. of the cor. of secs. 9-10-15 and 16. Thence I run
	N.89°55'W. on a true line bet. secs.9 and 10
	Descending through scattering cedar and pinon pine timber.
9.05	Road bears N.E. and S.W.
19.50	Ravine, 150 ft. deep, course N.W.; ascend.
26.50	Spur projects N.; descend.
31.50	Ravine 150 ft. deep, course N.
37.50	Ridge, bears N. and S.
40.04	Set a trachyte stone 12x12x10 ins. 9 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
42.00	Bottom of hollow, 50 ft. deep, course S.W.
	Ascend.
49.00	Spur projects S.W.
	Descend abruptly.
69.00	Canon, 300 ft. deep, course N.; ascend.
80.08	The cor. of secs.8-9-16 and 17.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber scattering cedar and pinon pine.
	Mountainous land 80.08 chs.
	N.0°03'W. bet. secs.8 and 9
	Ascending over rolling land; through scattering cedar and pinon pine timber.
34.00	Top of ridge.
	Spur projects E.
	Leave timber, bears E. and W.; descend.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
40.00	Set a trachyte stone 15x10x8 ins.10 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
80.00	Set a trachyte stone 18x10x10 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.edges;raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony;3rd.rate.
	Timber cedar and pinon pine.
	S.89°55'E.on a random line bet.secs.4 and 9
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line 12 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
	Ascending through scattering aspen and pinon pine timber.
2.00	Spur projects S.
	Leave aspen timber;descend.
15.00	Road bears N.W.and S.E.
29.35	Pine Creek,5 lks.wide,pure water flows N.W.
30.50	Road bears N.and S.
37.00	Spur projects N.;descend.
40.00	Set a trachyte stone 18x12x6 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N. face;from which
	A pinon pine 6 ins.diam.bears N.88°E.53 lks. dist.,marked ¼ S 4 B T.
	A pinon pine 8 ins.diam.bears S.30°E.52 lks. dist.,marked ¼ S 9 B.T.
42.00	Begin abrupt descent,bears N.and S.
45.50	Canon 200 ft.deep,course N.;ascend.
62.00	Leave timber,bears N.and S.

SUBDIVISION OF T.30 S.R 3 E.

CHAINS.	
76.00	Top of ridge, bears N. and S. ; descend.
79.98	The cor. of secs. 4-5-8 and 9.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber cedar, pinon pine, and aspen.
	Mountainous land 79.98 chs.
	September 26, 1902.

September 27, 1902, at the cor. of secs. 4-5-8 and 9, I set off 38°14'N. on the lat. arc, 1°23'S. on the decl. arc; and at 8 a m.l.m.t., determine a meridian with the solar.

Thence I run

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

40.00	Set temp. ¼ sec. cor.
79.82	Intersect N. bdy. of Tp. 2 lks. W. of the cor. of secs. 4-5-32 and 33, heretofore described.

Thence I run

S.0°02'E. on a true line bet. secs. 4 and 5

	Descending through dense artemisia and willow brush.
4.50	Pine Creek, 10 lks. wide, flows N.W. ; ascend.
10.00	George A. Smith's log cabin, bears S.E. 10.00 chs.
[illegible]	David Combs' cabin bears S.E. 20.00 chs.
15.00	Top of ridge, bears N.W. and S.E. ; descend; leave dense br
27.50	Ravine 100 ft. deep, course N.W. ; ascend.
28.00	Road bears N.W. and S.E.
39.82	Set a trachyte stone 16x10x8 ins. 10 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
79.82	The cor. of secs. 4-5-8 and 9.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS. Land rolling.

Soil stony; 3rd. rate.

No timber.

Dense undergrowth 15.00 chs.

From the standard cor. of secs. 31 and 32 on S. bdy. of Tp. heretofore described, I run

N. 0°03' W. bet. secs. 31 and 32

Ascending over rolling land; through scattering sage-brush, cedar and pinon pine.

30.50 Top of ridge, 200 ft. above cor., bears N. E. and S. W.

Descend, through heavy pine and aspen timber.

40.00 Falls on trachyte boulder 3x3x1 ft. above ground, for ¼ sec. cor., marked ¼ on W. face; from which

An aspen 4 ins. diam. bears N. 61° E. 42 lks. dist. marked ¼ S 32 B T .

An aspen 5 ins. diam. bears N. 82° W. 80 lks. dist. marked ¼ S 31 B T .

80.00 Set a trachyte stone 18x14x10 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

An aspen 5 ins. diam. bears N. 8° E. 80 lks. dist. marked T 30 S R 3 E S 29 B T .

A pine 20 ins. diam. bears S. 55½° E. 24 lks. dist. marked T 30 S R 3 E S 32 B T .

A pine 3 ins. diam. bears S. 68° W. 46 lks. dist., marked T 30 S R 3 E S 31 B T .

A pine 22 ins. diam. bears N. 75° W. 42 lks. dist., marked T 30 S R 3 E S 30 B T .

Land mountainous.

Soil stony; 3rd. rate.

Timber cedar, pinon pine and aspen.

Mountainous land, or heavily timbered 80.00 chs.

SUBDIVISION OF T. 30 S. R 3 E.

CHAINS.	East on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
80.02	Intersect the cor. of secs. 28-29-32 and 33,
	Thence I run
	West on a true line bet. secs. 29 and 32,
	Descending over rolling land;
11.00	Canon 200 ft. deep, course N.; ascend.
28.50	Ridge bears N. and S.; descend.
40.07	Set a trachyte stone 18x12x8 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
53.00	Ravine 25 ft. deep, course N.E.; ascend.
59.00	Begin steep ascent, through heavy pine timber, bears N. and S.
70.00	Top of ridge, bears N. and S.; descend.
80.02	The cor. of secs. 28-30-31 and 32.
	Land mountainous.
	Soil stony; 3rd. rate.
	Timber pine.
	Mountainous land or heavily timbered 80.02 chs.

	W. on random line bet. secs. 30 and 31
40.00	Set temp. ¼ sec. cor.
79.95	Intersect W. bdy. of Tp. 3 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run
	S. 89°59' E. on a true line bet. secs. 30 and 31
	Descending over rolling land; through sagebrush.
13.70	Enter heavy pine timber, bears N.E. and S.W.
39.95	Set a trachyte stone 18x14x8 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	A pine 20 ins. diam. bears N. 14° E. 47 lks. dist.

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CHAINS.	
	marked ¼ S 30 B T.
	A pine 15 ins.diam.bears S.86°W.44 lks.dist.
	marked ¼ S.31 B T .
52.00	Hollow course N.;ascend.
79.95	The cor.of secs.29-30-31 and 32.
	Land rolling.
	Soil stony;3rd.rate.
	Timber heavy pine.
	Heavily timbered 66.25 chs.
	September 27,1902,at this cor.I set off 1°27'S.on the decl.arc,and at 11 h.51 m.a.m.l.m.t.,observe the sun on the meridian;the resulting lat.is 38°10' N.

	N.0°03'W.bet.secs.29 and 30
	Descending through heavy pine timber.
31.00	Leave heavy pine timber bears E.and W.
40.00	Set a trachyte stone 20x16x4 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
80.00	Set a trachyte stone 20x8x6 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;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony 3rd.rate.
	Timber heavy pine.
	Heavily timbered 31.00 chs.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.

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

40.00 Set temp. ¼ sec. cor.

80.01 Intersect N. and S. line 3 lks. S. of the cor. of secs. 20-21-28 and 29. Thence I run

S. 82°59' W. on a true line bet. secs. 20 and 29

Descending over rolling land; through scrub sagebrush.

15.30 Canon 200 ft. deep, course N.; ascend.

18.00 Begin steep ascent, through scattering cedar and pinon pine.

30.85 Top of ridge, N. and S. leave timber bears N. and S.

40.00½ Set a trachyte stone 18x14x6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ . on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.

67.00 Ravine 50 ft. deep, course N.E.; ascend.

80.01 The cor. of secs. 19-20-29 and 30.

Land mountainous.

Soil stony; 3rd. rate.

Timber cedar and pinon.

Mountainous land 80.01 chs.

N. 82°59' W. on a random line bet. secs. 19 and 30

40.00 Set temp. ¼ sec. cor.

73.84 Intersect W. bdy. of Tp. 3 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

East on a true line bet. secs. 19 and 30,

Descending over rolling land, through scrub sagebrush.

23.00 Ravine 100 ft. deep, course N.E.; ascend.

38.50 Top of spur, projects N. .; descend.

53.84 Set a trachyte stone 20x15x8 ins. 15 ins. in the ground, for ¼ sec. cor., marked ¼ . on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS	
	Pits impracticable.
71.50	Wash,1.00 ch.wide,20 ft.deep,courseN.W.
79.84	The cor.of secs.19-20-29 and 30.
	Land rolling.
	Soil stony;3rd.rate.
	No timber.
	N.0°03'W.bet.secs.19 and 20
	Descending over rolling land,through scrub sage-brush.
40.00	Set a trachyte stone 20x10x5 ins.15 ins.in the ground for ¼ sec.cor.,marked ¼ on W.face;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
80.00	Set a trachyte stone 15x8x8 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.edges;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony;3rd.rate.
	No timber.
	September 27,1902.
	September 28,1902,at the cor.of secs.17-18-19 and 20,I set off 38°12'N.on the lat.arc;1°46'S.on the decl.arc;and at 8 a.m.l.m.t.,determine a meridian with the solar.Thence I run
	N.89°59'W.on a random line bet.secs.17 and 20
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line 5 lks.N.of the cor.of secs. 16-17-20 and 21.Thence I run
	N.89°59'W.on a true line bet.secs.17 and 20

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
	Descending over rolling land.
	Through scrub sagebrush.
11.00	Ravine 100 ft. deep, course N.W.; ascend.
15.00	Spur projects N.; descend.
20.50	Canon 200 ft. deep, course N.E.
	Ascend abruptly.
31.00	Top of abrupt ascent.
40.00	Set a trachyte stone 18x12x12 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
80.00	The cor. of secs. 17-18-19 and 20.
	Land rolling and mountainous.
	Soil stony; 3rd. rate.
	No timber.
	Mountainous land 40.00 chs.

	West on a random line bet. secs. 18 and 19
40.00	Set temp. ¼ sec. cor.
79.79	Intersect W. bdy. of Tp. at the cor. of secs. 13-18-19 and 24 heretofore described, Thence I run
	East on a true line bet. secs. 18 and 19
	Descending over rolling land; through scrub sagebrush.
25.00	Enter scattering cedar and pinon pine timber, bears N. and S.
32.00	Ravine 100 ft. deep, course N.W.; ascend.
38.20	Top of ridge, bears N.W. and S.E.
	Descend; leave scattering timber.
39.79	Set a trachyte stone 18x12x8 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
79.79	The cor. of secs. 17-18-19 and 20.
	Land rolling.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS	
	Soil stony;3rd.rate.
	Timber cedar and pinon pine.
	N.0°03'W.bet.secs.17 and 18
	Descending over rolling land;through scrub sagebrush.
40.00	Set a tracyte stone 15x12x10,10 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
80.00	Falls on boulder,18x18x12 ins.above ground,for cor. of secs.7-8-17 and 18,marked with 5 notches on E. and 4 notches on S.edges;and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land rolling.
	Soil stony;3rd.rate.
	No timber.
	September 28,1902,at this cor.I set off 1°51'S.on mer.arc,and at 11 h.51 m.a.m.l.m.t.observe the sun on the meridian;the resulting lat.is 38°13'N.
	S.89°59'E.on a random line bet.secs.8 and 17
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line 3 lks.N.of the cor.of secs. 8-9-16 and 17.Thence I run
	N.89°58'W.on a true line bet.secs.8 and 17
	Ascending over rolling land.
6.00	Top of ridge,150 ft.above cor.,bears N.E.and S.W. descend.
40.00	Set a tracyte stone 15x12x4 ins.10 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;raised a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
63.00	Ravine 75 ft.deep,course N.E.;ascend.
69.00	Ridge bears N.E.and S.W.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.

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

Land rolling.

Soil stony; 3rd. rate.

No timber.

West on a random line bet. secs.7 and 18

40.00 Set temp. ½ sec. cor.

79.75 Intersect W. bdy. of Tp.5 lks. N. of the cor. of secs.7-12-13 and 18, heretofore described.

Thence I run

N. 89° 58' E. on a true line bet. secs.7 and 18

Descending over rolling land; through scrub sagebrush.

24.00 Hollow drains N.E.; ascend.

39.75 Set a trachyte stone 20x14x6 ins. 15 ins. in the ground for ½ sec. cor., marked ¼ on N. face; raised a mound of stone 2 ft. base 1½ ft. high N. of cor.

Pits impracticable.

68.50 Begin steep descent, bears N. and S.

77.50 Ravine, 150 ft. deep, course N.E.; ascend.

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

Land rolling.

Soil stony; 4th. rate.

No timber.

N. 0° 03' W. bet. secs.7 and 8

Descending over rolling land; through scrub sagebrush.

5.00 Ravine 150 ft. deep, course N.E.

Ascend; enter scattering cedar and pinon pine timber, bears N.E. and S.W.

20.00 Ridge bears N.E. and S.W.

Descend; leave timber, bears N.E. and S.W.

40.00 Set a trachyte stone 14x12x8 ins. 10 ins. in the

SUBDIVISION OF T. 30 S. R. 3 E.

CHAINS.	
	ground for ½ sec. cor., marked ½ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
42.00	Ravine 100 ft. deep, course N. E.; ascend.
80.00	On top of spur, projects E.
	Set a trachyte stone 20x12x8 ins. 15 ins. in the ground and mound of stone for cor. of secs. 5-8-7 and 8, marked with 5 notches on S. and 5 notches on E. edges; from which
	A pinon pine 6 ins. diam. bears S. 56° E. 82 lks. dist., marked T 30 S R 3 E S 8 B T.
	No other trees within limits; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land rolling.
	Soil stony; 3rd. rate.
	Timber, scattering cedar and pinon.
	September 28. 1902.

	September 29, 1902, at the cor. of secs. 5-8-7 and 8, I set off 38°14'N. on the lat. arc; 2°10'S. on the decl. arc; and at 8 a. m. l. m. t., determine a meridian with the solar. Thence I run
	S. 89°58' E. on a random line bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
80.01	Intersect N. and S. line 16 lks. S. of the cor. of secs. 4-5-8 and 9. Thence I run
	S. 89°55' W. on a true line bet. secs. 5 and 8
	Descending over rolling land; through scattering cedar and pinon pine timber.
19.00	Ravine 100 ft. deep, course N. W.; ascend.
28.00	Spur projects N.; descend.
37.00	Ravine 100 ft. deep, course N. E.; ascend.

SUBDIVISION OF T.30 S.R.3 E.

CHAINS.	
40.00½	Set a trachyte stone 15x12x6 ins.10 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; from which
	A pinon pine 7 ins.diam.bears N.83°E.84 lks. dist., marked ¼ S 5 B T .
	A cedar 5 ins.diam.bears S.80¾E.112 lks.dist. marked ¼ S 8 B T .
80.01	The cor.of secs.5-6-7 and 8.
	Land rolling.
	Soil stony;3rd.rate.
	Timber cedar and pinon pine.

	S.89°58'W.on a random line bet.secs.6 and 7
40.00	Set temp.¼ sec.cor.
70.68	Intersect W.bdy.of Tp.3 lks.N.of the cor.of secs.1-6-7 and 12,heretofore described.
	Thence I run
	N.89°57'E.on a true line bet.secs.6 and 7.
	Descending over rolling land.
	Through scattering cedar and pinon pine timber.
3.00	Ravine 50 ft.deep,course N.E.;ascend.
21.50	Spur projects N.;descend.
26.00	Ravine 75 ft.deep,course N.;ascend.
	Leave timber.
39.68	Set a trachyte stone 18x14x10 ins.12 ins.in the ground for ¼ sec.cor.,marked ¼ on N.face;raised a mound of stone 2 ft.base 1½ ft.high N.of cor.
	Pits impracticable.
55.50	Ridge,bears N.E.and S.W.;descend.
70.68	The cor.of secs.5-6-7 and 8.
	Land rolling.
	Soil stony;3rd.rate.
	Timber cedar and pinon pine.

SUBDIVISION OF T 30 S.R.3 E.

CHAINS.	
	N. 0°03'W. on a random line bet. secs. 5 and 6
40.00	Set temp. ½ sec. cor.
79.80	Intersect N. bdy. of Tp. 5 lks. E. of the cor. of secs. 5-6-31 and 32, previously described.
	Thence I run
	S. 0°05'E. on a true line bet. secs. 5 and 6
	Ascending over rolling land; through scrub sagebrush and scattering cedar and pinon pine timber.
32.00	Top of ridge, bears E. and W. Descend.
37.00	Ravine 100 ft. deep, course N. 75°E.
	Ascend.
39.80	Set a trachyte stone 18x14x6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
50.00	Ridge bears N.E. and S.W.
	Descend.
71.35	Ravine 50 ft. deep, course N.E.; ascend.
79.80	The cor. of secs. 5-6-7 and 8.
	Land rolling.
	Soil stony; 3rd. rate.
	Timber cedar and pinon pine.
	September 29, 1902.

GENERAL DESCRIPTION

This township is situated on the northwest slope and foothills of the Boulder Mountain, the southeast portion of the township is on top of the mountain, the altitude of which is about 10,000 ft. above sea level.

The soil, with the exception of several bottoms is rocky, 3rd. and 4th. rate, and on the mountain is covered with a heavy growth of pine timber of commerical v value, scattering cedar and pinon timber is found on

General Description of T.30 S.,R.3 E.,concluded.

the foothills,also a luxuriant growth of nutritious grasses,making this an excellent stock range.

The township is watered by Pine Creek in central portion,Birch Creek in the southern and by many springs along the mountain.

There are a number of fresh water lakes on top of the mountain.

There are three settlers in this township viz.:

George A.Smith is located in N.W.$\frac{1}{4}$ sec.4

Land under cultivation 15.00 acres.

Value of improvements $ 800.00

David Combs,in N.W.$\frac{1}{4}$ sec.4

Land under cultivation 20.00 acres.

Value of improvements $ 900.00

Jurgenson Bros! sawmill and improvements are located in S.$\frac{1}{2}$ of sec.10

No land under cultivat ion

Value of improvements $ 1500.00.

Gus Williams,George Coleman,A.S.Coleman and George Brinkerhoff are not located in this township,they are located in T.31 S.,R.3 E,about 3 miles S.of the S.Bdy.of this township.

There is no mineral found in this township.

There being no notary public or other officer authorized to administer oat is within a reasonable distanc at the beginning or ending of this survey,in order to save time and expense,I administer the preliminary and final oaths,myself.

Harvey L. Reist

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 marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of T.28 S.,R.4 E.,and T.30 S.,R.3 E. of the Salt Lake Base and Meridian,Utah. showing the respective capacities in which they acted:

William Walquist, *Chainman.*
Earl V.Woolley, *Chainman.*
Arthur N.Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D.Heist, United States Deputy Surveyor, in surveying all those parts or portions of the the Subdivisions of T.28 S.,R.4 E.,and T.30 S.,R.3 E. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah,

William Walquist, *Chainman.*
Earl V. Woolley, *Chainman.*
Arthur N. Munger, *Moundman.*
Oley Sorenson, *Moundman.*
Harry Payne, *Axman.*
, *Axman.*
Harry Payne, *Flagman.*

Subscribed and sworn to before me this 29th. day of September, 1902., 189

SEAL

Harvey D. Heist
U.S.Deputy Surveyor

6—161

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 t 12th day of February, 1902, 189 , 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 Utah, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of the Subdivisions of T.23 S., R.4 E., and T.30 S., R.3 E.

of the Salt Lake Base and meridian, in the state of Utah, which are represented in foregoing field notes in books C & G 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 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.

Harvey D. Heist
United States Deputy Survey

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1903, 189

Edward H. Anderson
Surveyor-General for Ut

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 2, 1904, 18

The foregoing field notes of the survey of the subdivisional lines of Township 30 South Range 3 East of the Salt Lake Base & Meridian, Utah

executed by Harvey D. Heist under his contract No. 251, dated February 12, 1902, 189 , having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
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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Exd J.L.B.

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BOOK A-296

FILED 4
MAR 26 1903

FIELD NOTES

K.J.B.

of the

R-E-T-R-A-C-E-M-E-N-T

of

THE EIGHTH STANDARD PARALLEL SOUTH

through

Range No. 4½ West.

Of the Salt Lake Base and *Meridian,*

in the state of Utah.

AS SURVEYED BY

Harvey D. Heist, *United States Deputy Surveyor,*

Under his Contract No. 251, *dated* February 12, 1902., *189*

Re Survey commenced October 5, 1902., *189*

Re Survey completed October 7, 1902., *189*

6—151

Retracement low — 1-39-45 ✓
Resurvey — high — 40-00 ✓

BOOK A-296

NAMES AND DUTIES OF ASSISTANTS.

Oley Sorenson	Chainman
Earl V. Woolley	"
William Walquist	"
George Wilson	"
John Kitchen	Moundman
Earl V. Woolley	"
John Kitchen	Axman
James Potter	"
Oley Sorenson	Flagman

BOOK A-296

INDEX DIAGRAM.

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Oley Sorenson, Earl V. Woolley, William Walquist and George Wilson 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~~ resurvey of of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and Meridian, Utah.

Oley Sorenson, William Walquist, Chainman.
Earl V. Woolley, George Wilson, Chainman.

Subscribed and sworn to before me this 5th. day of October, 1902., 189

SEAL

Harvey L. Heist
U. S. Deputy Surveyor

We, John Kitchen and Earl V. Woolley 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~~ resurvey of of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and Meridian, Utah.

John Kitchen, Moundman
Earl V. Woolley, Moundman

Subscribed and sworn to before me this 5th. day of October, 1902., 189

SEAL

Harvey L. Heist
U. S. Deputy Surveyor

We, ... and I, James Potter do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the ~~survey~~ resurvey of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and Meridian, Utah.

James Potter, Axman
..... Axman

Subscribed and sworn to before me this 5th. day of October, 1902., 189

SEAL

Harvey L. Heist
U. S. Deputy Surveyor

I, Oley Sorenson, 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 Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and Meridian, Utah.

Oley Sorenson, Flagman

Subscribed and sworn to before me this 5th. day of October, 1902., 189

SEAL

Harvey L. Heist
U. S. Deputy Surveyor

Retracement of the Eighth Stadard Parallel South, through R.4½W.

Survey commenced October 5th.1902.and executed with the instrument described inbook "D" ofthis survey, Iexamine the adjustment of the transit and find them correct, then, to test, the solar apparatus by comparing its indications, resulting from solar observations made during a.m.and p.m. hours, with a meridian determined by Polaris observations, Iproceed as follows;

At the standard cor.of secs.31and 32 on the S.bdy. of Tp.and the 8th.Standard Parallel South R.4½W. which is a limestone 10X9X4 ins. above ground marked and witnessed as described by the surveyor general, in latitude 37°17'18"N. longitude 112°22'05"W.

I set off 37°17'N.on the lat.arc;4°38'S.on the decl: arc;and at 4p.m.,l.m.t.,determine with the solar a meridian and mark a point thereof,on a stone firmly set in the ground 5 chs.N.of the cor.

October 5th.1902.

October 6th.1902.,At 0h 25m.a.m.,l.m.t., I observe Polaris at upper culmination,in accordance with the manual of instructions,and mark a point in the meridian thus determined, by cutting a small groove in the stone set last night,on which the the meridian falls 0.4 ins.east of the mark determined by the solar.

At 8h0m.a.m.,l.m.t.,I set off 37°17'N.onthe lat.arc; 4°52'S.on the decl.arc,and determine a meridian, with the solar,the line thus determined,falls 0.4ins east 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 the adjustment of the instrument are satisfactory.

Retracement of the Eighth Standard Parallel South, through R.4 ½ W.

chains	
	The magnetic bearing of the true meridian, at 8 a.m. is N.15°30'W.; the angle thus determined gives the mag.decl.15°30'E.
	From the Standard cor. already described, I retrace East, on the 8th. Standard Parallel South, and S.bdy. of sec.32,; and at 39.70 chs.falls 14 lks.S.of the Standard ¼ sec.cor.; the course of this line is therefore, N.89°48'E.
	And at 79.45 chs.falls 20lks.N.of the Standard cor. cor.of secs.32 and 33.; the course of this line is therefore, S.89°31'E.
	Finding the cors.in bad condition, being nearly obliterated, I continue the retracement,
	East on the S.bdy.of sec.33,
	40.10 chs.intersect the Standard ¼ sec.
	and at 80.00 chs.after dilligent search no trace of the old standard cor of secs.33 and 34 can be found, therefore, I continue the retracement and find no cors. and at 320.00 chs. I set a temporary standard Tp.cor., for T.40 S., Rs.4 and 4½ W.
	October 6th.1902.
	Resurvey of the Eighth Standard Parallel South, through R.4½ W.
	October 7th.1902, At the standard cor. of secs.31and 32, heretofore described, I set off 37°17'N.on the lat.arc; 15°15'S.on the decl.arc; and at 8 a.m., l.m.t., determine a meridian with the solar, thence I run N.89°48'E.on resurvey
	on the 8th.standard Parallel South, through R.4½W. and the S.bdy.of sec. 32,
	Descending over rolling land, through dense artimesa.
6.00	Dry wash, 10X10 ft.course S.over nearly level land.
8.96	The closing cor.of secs.5and 6 a sand stone 10X10X3 ins.above ground, firmly set and marked as described by the surveyor general..

RETRACEMENT OF THE EIGHTH STANDARD PARALLEL SOUTH, through R.4½ W.,

CHAINS	
25.00	Leave level land, bears N. and S. ascend.
31.00	Top of ridge, bears N.30° E. and S.30°W.
	Descend.
	Difference bet. measurement of two sets of chainmen to stan.¼ sec.cor. is 4 lks., position of cor.
	By 1st. set, 39.72 chs.
	By 2nd. set, 39.68 chs., the mean of which is
39.70	The stan.¼ sec.cor., which is a sandstone 10x8x3 ins. above ground, marked and witnessed as described by the surveyor, general, I raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
44.50	Stake and rider fence, bears N. and S.
73.00	Wash, 5 ft. deep, 10 ft. wide, course S.W.
73.80	Road, bears N.E. and S.W.
	Difference bet. measurement to stan.cor. by two sets of chainmen is 4 lks., position of cor.
	By 1st. set, 79.47 chs.
	By 2nd. set, 79.43 chs., the mean of which is
79.45	The standard cor. of secs. 32 and 33, the stone has disintegrated and no marks are visible, I re-establish the stan.cor. to secs. 32 and 33 as follows.:
	Set a sandstone 15x10x8 ins., 10 ins. in the ground, for reestablished stan.cor. to secs. 32 and 33, marked S.C. on N. with 2 grooves on W. and 4 grooves on E. faces, and raise a mound of stone 2 ft. base 1½ ft. high, N. of cor.
	Pits impracticable.
	Land rolling.
	Soil, gravelly clay 2nd. and 3rd. rate.
	Timber, a few scattering cedars.
	Dense artemisia on 79.45 chs.

East, on a retracement line, along S. side sec. 33.

Over rolling land, ascend through dense artemisia.

RETRACEMENT OF THE EIGHTH STANDARD PARALLEL SOUTH, through R.4½ W.,

CHAINS	
9.00	The closing cor. of secs.4 and 5, T.41 S. R.4½ W., which is a sandstone 10x5x5 ins. above ground, marked as described by the surveyor general.
28.50	Enter broken gypsum hills and heavy cedar and pinon timber, bears N.E. and S.W.
	Differ bet. measurement to stan. ¼ sec. cor. by two sets of chainmen is 6 lks., position of cor.
	By 1st. set, 40.03 chs.
	By 2nd. set, 39.97 chs., the mean of which is
40.00	The stan. ¼ sec. cor., which is a sandstone 8x8x5 ins. above ground, marked and witnessed as described by the surveyor general.
	Difference bet. measurement of 80.00 chs. by two sets of chainmen is 8 lks., position of middle point,
	By 1st. set, 80.04 chs.
	By 2nd. set, 79.96 chs., the mean of which is
80.00	Set temp. cor. for stan. cor. of secs.33 and 34, I do not set permanent cor. until I find whether this is the cor. to Tp.40 S.Rs.4 and 4½ W. Permanent cor. was set Oct. 31, 1902 and described in book "O" of this survey.
	Land rolling and broken.
	Soil clay and gypsum, 3rd. rate.
	Timber, cedar and pinon on 51.50 chs.
	Dense undergrowth or heavily timbered on 80.00 chs.
	October 7, 1902.

There being no notary public or other officer authorized to administer oaths, within a reasonable distance at the beginning or ending of this survey, in order to save time and expense, I administer the preliminary and final oaths myself.

Harvey L. Heist
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 marking the lines and corners described in the foregoing field notes of the ~~survey~~ resurvey of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

Oley Sorenson, William Walquist, Chainman.
Earl V. Woolley, George Wilson, Chainman.
John Kitchen, Moundman.
Earl V. Woolley, Moundman.
James Potter, Axman.
, Axman.
Oley Sorenson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist, United States Deputy Surveyor, in ~~surveying~~ resurveying all those parts or portions of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been resurveyed by him and under his direction; and that said resurvey 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.

Oley Sorenson, William Walquist, Chainman.
Earl V. Woolley, George Wilson, Chainman.
John Kitchen, Moundman.
Earl V. Woolley, Moundman.
James Potter, Axman.
, Axman.
Oley Sorenson, Flagman.

Subscribed and sworn to before me this 7th day of October, 1902, 189

SEAL

Harvey D. Heist
U. S. Deputy Surveyor.

6-151

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 the 12th. day of February, 1902., 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 Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ resurveying all those parts or portions of the Eighth Standard Parallel South, through R. 4½ W. of the Salt Lake Base and meridian, in the state of Utah, which are represented in the 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 with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such resurvey; and should any fraud be detected, I will submit to the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harvey D. Heist
United States Deputy Surveyor.

Subscribed by said Harvey D. Heist, and sworn to before me this 26th day of March 1903, 189

Edward H. Anderson
Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 26, 1903,

The foregoing field notes of the resurvey of the Eighth Standard Parallel South through Range 4½ West of the Salt Lake Base & Meridian, Utah

executed by Harvey D. Heist under his contract No. 251, dated February 12, 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Edward H. Anderson
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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