Volume

# #

R0293

Filed May 25, 1901

4—679.

N.

BOOK A-293

FIELD NOTES

K.F.B.

OF THE Re SURVEY OF THE

East bdy. of

Township No. 28 South.

Range No. 4. West

and

South bdy. of

Township No. 27 South.

Range No. 4 West

Of the Salt Lake base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert D. Page and Harry Erivan, United States Deputy Surveyors

Under ~~his~~ their Contract No. 232, dated November 24th, 1899

Re Survey commenced August 23rd, 1900

Re Survey completed " 26th, 1900

6—151

T R

Ebdy 28-4 high 3.01.93

S " 27-4 " 6.05.40

U.S. M.C. 1474

BOOK A-293

NAMES AND DUTIES OF ASSISTANTS.

Harvey D. Hirst, Chainman

George H. Stevens " "

Lewis S. Miller "

Wallace J. Isbell "

Newark S. Dawson, Mountainman

Haven Burton "

Newark S. Dawson, Axman

Haven Burton, "

Haven Burton, Flagman

For preliminary affidavits see book "B" Pp. 30 S. R. B. W.

6—161

BOOK A-293

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____, *Chainman.*

_____, *Chainman.*

bscribed and sworn to before me this _____
day of _____, 189

SEAL

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

_____

_____ *Moundman.*

_____, *Moundman.*

bscribed and sworn to before me this _____
day of _____, 189

SEAL

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

_____

_____, *Axman.*

_____ *Axman.*

ıbscribed and sworn to before me this _____
day of _____, 189

SEAL

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

_____, *Flagman.*

ıbscribed and sworn to before me this _____
day of _____, 189

SEAL

East Bdy. of T. 28 S., R. 4 W.

Survey commenced
August 23rd 1900.
and executed with a W. and L. E.
Gurley, light mountain transit
No- with polar attachment.
the horizontal limb is
provided with two double
verniers, placed opposite
to each other, reading to single
minutes of arc; which is
also the least count of the
verniers of the latitude and
declination arcs.

The instrument was
examined, tested on the true
meridian at Salt Lake City
found correct, and was
approved by the Surveyor
General for Utah.
June 16th 1900.

We examine the adjustments
of the transit, and find them
correct; then, to test the solar
apparatus by comparing its indi-
cations resulting from solar
observations made during
a. m. and p. m. hrs. with a true
meridian determined by
observation on Polaris,
We proceed as follows;
August 23rd 1900.
At a point
at the cor. of Secs. 13, 18, 19 and 24
on the E. bdy. of T.
Lat. 38° 23' N. Long. 112° 17' W.
which is a Quartzite 4x4x6 ins.
firmly set and marked
as described by the Surveyor
General

At 5 p.m., l.m.t., we set off 38°23' N. on lat. arc; 11°24' N. on decl. arc; and determine a true meridian with the sun, and mark a point thereon by a stone set firmly in the ground 5 chs. N. of our station.

At 9 h. 20 m. p.m., l.m.t., we observe Polaris at eastern elongation in accordance with manual of instructions and mark a point on the line thus determined on a plug driven in the ground 5 chs. N. of our station.

August 24th, 1900.

At 7 a.m., l.m.t., we lay off the azimuth of Polaris 1°33½' to the west and mark the true meridian thus determined by cutting a small groove in the stone set August 23rd on which the true meridian falls 0.35 ins. west of the mark determined by the polar.

At 7 h. 10 m. a.m. l.m.t., we set off 38°23' N. on lat. arc; 11°11' W on decl. arc; and mark a point on the line meridian determined with the polar, by a cross on the stone already set 5 chs. N. of our station. This mark falls 0.35 ins. west of the true meridian established by the Polaris observation.

The polar apparatus by p.m. and a.m. observations defines positions for true meridians at equal distances E. and W.

of the true meridian established by Polaris observation. Therefore we conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h. 30. m. a.m. is N. 15° 40' W. The angle thus determined reduced by the table page 100. gives the mag. decl. 15° 34' E.

From the cor. of secs 13, 18, 19 and 24. on the E. bdy. of T.

which is a Quartzite stone 14 x 4 x 6 ins. above ground.

Marked as described by the Surveyor General.

We run N. 0° 02' W. on a blank line. 40.00 chs. after dilligent search no trace of the old 1/4 sec. cor. can be found, Gal. 80.40 chs. We find a mound of stone

West 1.51 chs. This bears indications of being the old cor.

The course of this line is therefore. N. 1° 09' W. and the dist. 80.42 chs.

Thence We run N. 0° 52' W. on blank line. 40.00 chs. after dilligent search no trace of old 1/4 sec. cor. can be found, Therefore, We continue our replacement N. 0° 52' W. and find no part of the E. bdy. and at 16.51 chs. We find the cor. of T. 27 and 28 S. R. 3 and 4 W. West 80 lks. which is a Quartzite stone 30 x 20 x 18 ins. in a mound of stone, marked as described by the Surveyor General, The course of this line is therefore N. 1° 09' W.

Many of the corners having been destroyed and the Tp. E. subdivided, we resurvey the Range line as follows:

August 24th 1900.

At 10. a.m., l. m. t., we set off 38'23" N. on lat. arc; 11°07' N. on dec. arc; and determine a true meridian with the polar, at the cor. of secs. 13, 18, 19 and 24.

Previously described.

On W. bdy. of T. 28 S., R. 3 W. we destroy the marks on said cor. pertaining to T. 28 S., R. 4 W. and raise a mound of stone 2 ft. base, 1½ ft. high E. of Cor.

Pits impracticable.

Thence we run

N. 1°09' W.

On E. bdy. of Tp.

Over rolling land, through dense arizonica

40.21 we find mound of stone, no marked stone, but indications of old cor. set a quartzite stone 16 x 10 x 4 ins. 11 ins. in the ground, for reestablished 1/4 sec. cor. marked 1/4 S. 18. on E. face, raised a mound of stone 2 ft. base, 1½ ft. high E. of cor.

Pits impracticable

57.00 Little Cottonwood creek, and cañon dry course N. E.

58.00 Canon Road, bears N. E. and S. W.

77.50 Ravine 75 ft. deep, drains S. E.

80.42 The mound of stone previously described, set a quartzite stone 15 x 9 x 5 ins. 10 ins. in the ground for reestablished cor. of secs. 7 and 18. marked with 4 notches on S. and 2 notches on N. edges, raised a mound of stone 2 ft. base 1½ ft. high E. of cor.

Pits impracticable.

East bdy. of T. 28 S., R. 4 W. continued.

Chains.	
	Land rolling Soil, stony 3rd rate, No timber Dense Artimesa 80.42 chs.
	N. 1°09' W. On E. bdy. of Tp. Over rolling land through dense artimesa.
3.00	Wood road, bears N.W. and S.E.
34.50	Wood road bears N.W. and S.E.
40.405	set a trachyte stone 16 x 10 x 5 ins. 11 ins. in the ground for reëstablished 1/4 sec. cor. marked 1/4 S.T. on E. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor. Pits impracticable.
57.50	Wood road bears N.E. and S.W.
80.81	Set a trachyte stone 14 x 9 x 4 ins. 10 ins. in the ground, for re-established cor. of secs. 6 and 7. marked with 5 notches on the S. and 1 notch on the N. edges, raised a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor. Pits impracticable. Land, rolling. Soil, stony. No timber Dense undergrowth 80.81 chs.
	At this cor. We set off 11°05' von decl. arc; and at 0 h 2 m., p.m., l. m. t., observe

Chains

the pins on the meridian, the resulting lat. is 38° 24' N.

N. 1° 09' W.
On the E. bdy. of T.
Over rolling land, through dense artinesa, scattering cedar and pinion
11.00 Wood road bears N. E. and S. W.
40.35 Set a trachyte 3 x 10 x 5 ins. 8 ins. in the ground for reëstablished 1/4 sec. cor. marked 1/4 S. 6. on E. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor. Pits impracticable.
45.00 Ravine 75 ft. deep. course N. E.
71.00 Wood road bears N. E. and S. W.
80.70 The cor. of Tps. 27 and 28 S., Rs. 3 and 4 W.; previously described
Land, mountainous
Soil, stony
Timber, cedar and pinion
Dense undergrowth
80.70 chs.

Resurvey of the South bdy. of T. 27 S., R. 4 W.

From the cor. of Ts. 27 and 28 S., Rs. 3 and 4 W.
Previously described
The pins West on a blank line along the N. bdy. of T. bet. secs. 1 and 36.

40.34 chs. We find the 1/4 sec. cor. which is a sand stone 14 x 10 x 6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
49 lks. S. The course of this line is therefore S. 89° 18' W.

Thence We run West and at 40.76 chs. We find the cor. of secs. 1, 2, 35 and 36. Which is a Quartzite stone 20 x 18 x 10 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. S. 1.76 lks. dist., The course of this line is therefore S. 87° 28' W. and distance 40.80 chs.

Thence We run West on N. bdy. of T. 3 and along S. bdy. of sec. 35 T. 27 S., R. 4 W. and at 40.50 chs. We find the 1/4 sec. cor. which is a sand-stone 14 x 10 x 8 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. N. 22 lks. dist. The course of this line is therefore N. 89° 41' W. Thence We run West and at 40.40 chs. We find the cor. of secs. 2, 3, 34 and 35. Which is a sand stone 14 x 8 x 6 ins. above ground marked and witnessed as described by the Surveyor General. N. 21 lks. dist. The course of this line is therefore N. 89° 42' W.

Thence We run West. along N. bdy. of T. bet. secs. 3 and 34 - 40.00 chs. after diligent search no trace of the old 1/4 sec.

cor. can be found. Thence at 81.20 chs. We find the cor. of secs. 3, 4, 33 and 34, which is a quartzite stone 10 x 10 x 6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. North 99 lks. dist.

The course of this line is therefore N. 89° 19' W.

Thence We run West along N. bdy. of Tp. bet. secs. 4 and 33.

40.00 chs. after dilligent search no trace of the old 1/4 sec. cor. can be found.

Thence at 81.42 chs. We find the cor. of secs. 4, 5, 32 and 33.

Which is a porphyry stone 14 x 12 x 10 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General North 99 lks. dist.

The course of this line is therefore N. 89° 18' W.

Thence We run West along N. bdy of Tp. bet. secs. 5 and 32.

38.11 chs. We find the old 1/4 sec. cor. S. 15 lks. dist., which is a quartzite stone 9 x 6 x 6 ins. above ground, Marked and witnessed as described by the Surveyor General.

Thence at 81.28 chs. We find the cor. of secs. 6, 5, 32 and 31, which is a porphyry stone 11 x 11 x 10 ins. above ground, firmly set, marked as described by the Surveyor General.

S. 31 lks. dist. The course of this line is therefore.

S. 89° 14' W.

South bdy. of T. 27 S., R. 4 W. continued.

Thence We run West along S. bdy of Tp. bet. secs. 6 and 31.
4000 after dilligent search no trace of the old 1/4 sec. cor. can be found.
and at 79.29 chs. We find the cor. of Tps. 27 and 28 S. Rs 4 & 5 W
which is a granite stone 14 x 10 x 5 ins. above ground, firmly set. and marked and witnessed as described by the surveyor general.
South 5.20 chs. dist.
the course of this line is therefore S 86°15' W. and dist. 79.46 chs.

Finding some of the cors. obliterated and no part of the boundary in alignment or within limits.
We resurvey the line as follows:

August 26th 1900.
At 7 a.m., l.m.t., We set off 10°29' N. on decl. arc; 38°25' N. on lat. arc: and determine a true meridian with the solar, at the cor. of Tps. 27 and 28 S., Rs. 3 and 4 W. Previously described.
Thence We run
S. 89°18' W on a true line
Along S. bdy. of Tp. bet. secs. 1 and 36.
Ascending over rolling land through dense artimesa
22.00 Enter Cedar timber, bears N. and S.
40.34 The 1/4 sec. cor.
Previously described.
Thence We run S. 87°28' W.

South bdy. of T. 29 S., R. 4 W. continued.

Chains.	
71.00	Ridge, bears N. and S. descend
81.14	The cor. of secs. 1, 2, 35 and 36 Previously described. The destroy all marks relating to T. 28 S. Land, stony 4th rate Timber, cedar Dense undergrowth 81.14 chs.
	N. 89° 41' W. Along S. bdy. of Tp. and sec. 35. Descending over rolling land, through dense timber and cedar timber
21.50	Ravine 60 ft deep Course N. E. ascend
27.00	Leave cedar timber bears N. E. and S. W.
40.50	The 1/4 sec. cor. Previously described Thence the run N. 89° 42' W.
46.60	Wagon road, bears N. and S.
48.00	Ridge, bears N. and S. descend
80.90	The cor. of secs 2, 3, 34 and 35. Previously described The destroy all marks relating to T. 28 S. Land, rolling, Soil, stony 4th rate. Timber, cedar, Dense undergrowth, 80.90 chs.
	N. 89° 9' W. Along S. bdy. of Tp. and sec. 34.

Chains.	
	Ascending over rolling land, through dense attimesa and scattering Cedar.
40.60	Set a trachyte stone 16 x 10 x 5 ins., 11 ins. in the ground, for re-established 1/4 sec. cor. to sec. 34. Marked 1/4 S 34 on N. face. Raised a mound of stone 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
48.00	Spur of mountain 60 ft. above sec. cor., projects N. descend
81.20	The cor. of secs. 3, 4, 33 & 34 Previously described. Will destroy all marks pertaining to T. 78 S.
	Land mountainous Soil, stony — 4th rate. Timber, scattering. Dense jungle growth — 81.20 chs.
	August 26th At this cor. the set off 10° 24' E. on decl. are; and at 0 h 2 m p.m. m. t., observe the sun on the meridian the resulting lat. is 38° 25' N.
	N. 89° 18' W. along S. bdy. of T. and Sec. 33.
	Descending, over rolling land, through dense attimesa
8.00	Ravine, 200 ft. deep, course N., ascend over broken country.
40.71	Set a trachyte stone 15 x 12 x 6 ins., 10 ins. in the ground, for

South bdy. of T. 27 S. R. 4 W. continued.

Chains	
	1/4 sec. cor. to sec. 33.
	marked 1/4 S 33 on N. face.
	raised a mound of stone 2 ft.
	base, 1 1/2 ft. high N. of Cor.
	Pits impracticable.
	Begin steep descent
	bears N. and S.
73.00	Enter Bullion Cañon
	500 ft below 1/4 sec. cor.
	bears N. E. and S. W.
79.00	Wagon road bears N. E.
	and S 85° W.
	enter scattering aspen timber.
81.42	The cor. of secs. 4, 5, 32 and 33.
	Previously described.
	We obliterate all marks pertaining
	to Tp. 28 S.
	Land, mountainous
	Soil, stony 4th rate.
	Timber, scattering Cedar.
	Dense undergrowth
	81.42 chs.

August 26th 1900.

A. 2 h 0 m p. m. l. m. t.

We set off 38°25' N. on lat. arc; 10°22' N on decl. arc. and determine a true meridian with the solar, at the Cor. of secs 32 and 33.

Thence We run

S. 89°47' W. On resurvey line along the S. bdy. of Tp and Sec. 32

Over rolling land, through dense artimesa and aspen timber

South bdy. of T. 27 S., R. 44 E. continued.

Chains	
5.00	Pine creek 20 lks. wide, pure water flows N.E. Lead ballon ascend over broken land and ledges
36.00	Ravine 100 ft. deep. Course S.
38.11	The old 1/4 sec. cor. previously described. Ohio Mining district. U.S. Mineral Monument No. 1, brass S 1°05' E. 14.74 chs.
73.00	Ravine Course S.E.
81.28	The cor. of secs. 5, 6, 31 and 32. Previously described We destroy all marks pertaining to T. 28 S. Land, mountainous. Soil, stony 4th rate. Timber, scattering Dense undergrowth, and mountainous land, 81.28 chs.
	S. 86° 15' E. along S. bdy. of Tp. and S. sec. 31. Ascending over broken ledges and land through dense undergrowth. Scattering aspen, mahogany and pine, along the north side of Bullion Canon
18.00	Ridge 900 ft above canon bears N. and S.
25.00	Ravine. Course S.
40.60	Set a trachyte stone 18 x 12 x 4.

South bdy. of T. 27 S., R. 4 W. concluded.

Chains

ins. 12 ins. in the ground and mound of stone for reëstablished 1/4 sec. Cor. to sec. 31.
Marked 1/4 S. 31. on N. face, raised a mound of stone 7 ft. base, 1 1/2 ft. high N. of Cor.
Pits impracticable

66.00 Point of ledge, 40 ft. high, projects S. descend along trachyte ledges, broken and generally bear E. and W.

76.00 Leave ledges, bear E. and N. W.

78.00 Spring branch, 2 lbs. wide, course S.E. ascend

79.46 The cor. of T. 27 S., Rs. 4 and 5 W.
Previously described.
Land, mountainous,
Soil, stony 4th rate.
Timber scattering.
Dense undergrowth and
Mountainous land, 79.46 chs.
August 26th 1900.

For General description see subdivision of T. 28 S., R. 4 W.

Hubert D. Pagh
Harry Erwin.
U.S. Deputy Surveyors.

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

Hubert D. Pagh
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, Harry Erwin 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 24th day of November, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the S. bdy. T. 27 S. R. 4 W. E. bdy. T. 28 and 29 S. R. 4 W. and E. bdy. T. 30 S. R. 6 W. and E. bdy. of the Fort Cameron Wood and Timber Reservation T. 29 & 30 S. R. 5 W.

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

Harry Erwin
United States Deputy Surveyor.

Subscribed by said Harry Erwin, and sworn to before me this 25th day of May 1901, 189

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 189

The foregoing field notes of the survey of

executed by

under his contract No. , dated , 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page and Harvey Emmons, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of W. bdy. T. 27 S., R. 4 W., E. bdy. T. 28 S., R. 4 W., E. bdy. T. 30 S., R. 6 W., E. bdy. T. 29 S., R. 6 W., E. bdy. T. 30 S., R. 6 W., E. bdy. T. 29 & 30 S., R. 5 W., Fort Cameron Wood & Timber Reservation, of the Salt Lake base and meridian, in the State of Utah, showing the respective capacities in which they acted:

Harvey D. Heist, George N. Stevens, Chainman.
Lewis S. Miller, Wallace Isbell, Chainman.
Newark S. Dawson, Moundman.
Haven Burton, Moundman.
Newark S. Dawson, Axman.
Haven Burton, Axman.
Haven Burton, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page and Harvey Emmons, United States Deputy Surveyor, in surveying all those parts or portions of the South boundary of Township 27 South, Range 4 West, E. bdy. Tps. 28 & 29 S., R. 4 W., E. bdy. T. 30 S., R. 6 W., E. bdy. of the Fort Cameron Wood & Timber Reservation T. 29 & 30 S. R. 5 W., of the Salt Lake base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by 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

Harvey H. Heist, George N. Stevens, Chainman.
Lewis S. Miller, Wallace Isbell, Chainman.
Newark S. Dawson, Moundman.
Haven Burton, Moundman.
Newark S. Dawson, Axman.
Haven Burton, Axman.
Haven Burton, Flagman.

Subscribed and sworn to before me this 26th day of August, 1909.

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, 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 24th day of November, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, re-surveyed all those parts or portions of the Ebdy. T. 27 S. R. 4 W. Ebdy. T. 28 and 29 S. R. 4 W. and Ebdy. T. 30 S. R. 6 W. and Ebdy. of the Fort Cameron Wood and timber Reservation T. 29 and 30 S. R. 5 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.

Hubert D. Page by
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me this 25th day of May 1901, 189

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 11, 1903, 189

The foregoing field notes of the re-survey of the East Boundary of Township 28 South Range 4 West and the South Boundary of Township 27 South Range 4 West of the Salt Lake Base and Meridian Utah

executed by Hubert D. Page and Harry Erwin under their contract No. 232, dated November 24, 1899, 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.

6—131

BLANK

PAGE

BLANK

PAGE

Exd H.R.M.

4—679.

O.

BOOK A-293

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

West
Boundary
of
Township No. 28 South
Range No. 4 West.

Of the Salt Lake Base and Meridian,
In the State of Utah.

AS SURVEYED BY

Hubert D Page and Harry Ewrie, United States Deputy Surveyors

Under ~~his~~ their Contract No. 232, dated November 24th, 1899

Survey commenced August 23rd, 1900

Survey completed August 27th, 1900

6—151

Length 6-13.40'
Closing 16.50'.

NAMES AND DUTIES OF ASSISTANTS.

Harvey D. Hirst Chainman

George H. Stevens "

Lewis S. Miller "

Wallace W. Isbell "

Newark S. Dawson Mountman

Haven Burton "

Newark S. Dawson Arman

Haven Burton "

Haven Burton Flagman

For preliminary affidavit see book D. Tp 30 S R 4 W.

6—151

BOOK A-293

INDEX DIAGRAM.

*Township*_____, *Range*_____

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

*Meanders Page*_____

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

West bdy. of T. 28 S., R. 4 W.

Survey Commenced
August 23rd 1900
and executed with a W. and L. E. Gurley light mountain transit No -, with solar attachment &c. the horizontal limb is provided with two double Vernier placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City found correct, and was approved by the Surveyor General for Utah.
June 16th 1900.

We examine the adjustments 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. hrs. with a true meridian determined by observation on Polaris We proceed as follows:

Timber is heavy at the Cor. of Ts. 28 and 29 S., Rs. 4 and 5 W.

Thence at a point on the N. W. side of Puffer Lake. S. 15° W. 16 chs. dist. from the Cor. of Tps 28 and 29 S., Rs. 4 and 5 W.

August 23rd 1900.

at 5 p. m. l. m. t., We set off 38° 20' N. on var. lat. arc; 11° 24' W. on decl. arc; and determine with the solar a true meridian; and mark a point thereof on a stone set firmly in the ground 5 chs N. of our station

At 9h 20m p. m. l. m. t. We observe Polaris at Eastern elongation in accordance with manual of instructions and mark a point on the line thus determined by a plug driven in the ground 5 chs. N. of our station.

August 24th

At 7 a. m. l. m. t., We lay off the azimuth of Polaris 1° 33' 54" to the West. and mark the true meridian thus determined by cutting a small groove the stone set 5 chs N of station. on which the true meridian falls 0.25 ins. west of the mark determined by the solar

At 7h 10m a. m. l. m. t. We set off 38° 20' N. on var. lat. arc; 11° 11' W on decl. arc; and mark a point in the true meridian determined with the solar, by a cross on the stone already set 5 chs. N. of our station, this mark falls 0.25 ins. west of the true meridian established by the Polaris

Chains.

Observation.

The solar apparatus by p.m. and a.m. observations defines positions for true meridians at equal dist. East and West of the true meridian established by Polaris observation; therefore, we conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h 20m is N. 15° 50' W. the angle thus determined reduced by the table, page 100. gives the mean mag. decl. 15° 44' E.

Thence we run
North on a random line
On W. bdy. of Ts.
Setting temps. 1/4 sec. and sec. cors. at intervals of 40.00 chs.
and at 49.40 chs. Intersect. N. bdy. of T 2 S.
N. 86° 5' E. 16.50 chs. dist. from the cor. of Tps. 27 and 28 S., Rs. 4 and 5 W.
which is a tr. stone 16 x 14 x 5 ins.
Marked and witnessed as described by the Surveyor General.
This is beyond the limits of 21 minutes of arc.
Therefore,
at point of intersection
set a closing cor. as follows:
Set a tr. stone 15 x 10 x 6 ins. 10 ins. in the ground for

Chains.

Closing Cor. of T. 78 S. Rs. 4 and 5 W.
Marked C.C. on S. with 6 grooves
on the S, E. and W. faces.
Raised a mound of stone 2 ft.
base 1½ ft. high S. of Cor. Pit impracticable.
August 25th
We destroy Marks on old Cor. that pertain
to T. 78 S.

August 26th 1900
At 7 a.m. l. m. t., We set
off 38° 25' N. on lat. arc: 10° 29'
N. on dec. arc; and de-
termine a true meridian with
the solar, at the closing Cor.
of T. 78 S. Rs. 4 and 5 W.

Thence We run
South on the W. bdy.
of T.
Bet. secs. 1 and 6.
Descending over broken hills
Through dense sage and oak brush.
19.00 Spring branch 4 lks wide 4 ins.
deep. pure water flows S. E.
in Cañon 200 ft. deep.
25.00 Ridge bears S. E. and N. W.
Descend over broken Trachyte
ledges
34.00 Bottom of ledges, 800 ft. high
bear S. E. & N. W. Descend through
heavy Aspen and pine.
45.00 Cliffs 200 ft. high bear E. & W.
Leave timber descend.
53.40 Set a trachyte 2½ x 4 x 18 x 4 ins. 18 ins
a mound of stone and earth.
for 1/4 sec. Cor. marked 1/4 S. 1 on
W. 6 or E. faces
raised a mound of stone 2 ft.
base 1½ ft. high W. of Cor.
Pits impracticable.

West bdy. of T. 28 S., R. 4 W. continued.

Chains	
77.50	Pine creek, 10 lks. wide 12 ins. deep pure water flows S. 70° E. in bottom of Bullion Cañon 1500 ft deep. Ascend through heavy pine timber.
93.40	Set a trachyte stone 26 x 12 x 4 ins. in mound of stone, for cor. of secs. 1, 6, 7 and 12. Marked with 1 notch on N. and 5 notches on the S. edges From which a pine 16 ins in diam bears N. 40° E. 50 lks. Dist. Marked T. 28 S., R. 4 W. S. 6 B.T. A pine 10 ins. in diam. bears S. 45° E. 60 lks. dist. marked T. 28 S. R. 4 W. S. 7 B.T. A pine 4 ins in diam. bears S. 45° W. 20 lks. dist. marked T. 28 S. R. 5 W. S. 12 B.T. No other suitable tree within limits. Raise a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable. Land, Mountainous Soil, stony 4th rate Timber, pine and aspen Mountainous land 93.40 chs.
	South On W. bdy. of T. bet. secs 7 and 12. Ascending through heavy pine timber.
8.00	Spur, projects N.E.
32.00	Spring branch 2 lks wide 7 ins deep. pure water flows

Chains	
	N. 60° E.
	Leave timber bears N. 60 E. and S. 60 W.
40.00	Set a trachyte 16 x 9 x 4 ins. 11 ins. in a mound of stone & earth for 1/4 sec. cor. marked 1/4 S. 12 on N. face, 1 on E. face, raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
80.00	1000 ft. above 1/4 sec. cor. on N. side of mountain. Set a trachyte 13 x 10 x 6 ins. 8 ins. in a mound of stone & earth for cor. of secs. 7, 12, 13 and 18, marked with 2 notch on the N. and 4 notches on the S. edges, raised a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Pits impracticable
	Land, mountainous
	Soil, stony 4th rate.
	Timber, pine.
	Mountainous land
	80.00 chs

August 26th

At this cor. Pit set off 10° 24' N. on decl. arc: and at 0 h. 2 m. p.m. L. M. T., observe the sun on the meridian the resulting lat. is 38° 27' 3" N.

South

On W. bdy. of T. between secs. 13 and 18.

Ascending over broken ridges

Chains	
	and shale rock.
23.00	Spur of mountain projects N. E.
40.00	Set a trachyte ½ 14 × 9 × 4 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 S. 13 on W. 18 on E. faces. raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable.
57.50	Dry ravine 20 ft deep. course N. E.
80.00	1000 ft. above cor. of secs 7, 12, 13 & 18. Set a trachyte ½ 13 × 8 × 6 ins. 8 ins in a mound of stone & earth for cor. of secs. 13, 18, 19 & 24. Marked with 3 notches on the N. & S. edges. raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. Land, mountainous Soil, stony 4th plate. No timber Mountainous land
	80.00 chs.

South
On W. bdy. of T.
bet. Secs. 18 & 19.
Ascending over broken hills shale rock
18.00 Foot of broken trachyte cliffs. bear N. W. & S. E.
21.00 Top of cliffs. bears N. W. & S. E.
27.00 Mountain Spur. 1000 ft. above sec. cor. projects E. Descend.

West bdy. of T. 28 S., R. 4 W. continued.

Chains	
40.00	Set a trachyte stone 16 x 10 x 6 ins. 11 ins. in the ground. for 1/4 sec. cor. marked 1/4 S. 24 on W. 19 on E. faces. raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
50.00	Steep ravine, 500 ft deep, course N. 75° E. ascend
78.00	Spur on ridge and Divide Tushar Mountains, 11,000 ft above sea level 5 bears N. W. and S. E.
80.00	Set a trachyte stone 18 x 12 x 6 ins in a mound of rock, for cor. of secs. 19, 24, 25 and 30. marked with 4 notches on the N. and 2 notches on the S. edges, raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous Soil stony 4th rate No timber Mountainous land 80.00 chs.
	August 27th At 7 a.m., l.m.t., We set off 38°22' N. on lat. arc: 10°08' N on decl. arc: and determine a true meridian with the solar. at the cor. of secs. 19, 24, 25 and 30. Thence We run South On W. bdy. of Tp. bet. secs. 25 and 30. Descending.
20.00	Spur. projects S. W.
40.00	Set a trachyte 16 x 10 x 6 ins. 11 ins

Chains.	
	in the ground, for 1/4 sec. cor. marked 1/4 S. 25 on N. 30 on E. faces, raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
	Pits impracticable.
67.00	Ravine 100 ft. deep. 1200 ft. below sec. cor. drains S. W.
80.00	Set a hacky tie 8 x 12 x 8 ins. 12 ins. in a mound of stone and earth. for 1/4 Cor. of secs. 25, 30, 31, and 36. marked with 5 notches on the N. and 1 notch on the S. edges.
	raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of Cor.
	Pits impracticable,
	Land, mountainous
	Soil, stony
	No timber,
	Mountainous land, 80.00 chs.

	South.
	On W. bdy. of T. bet. secs. 31 and 36.
	Descending.
5.50	Enter pine and Aspen timber bears N. E. and S. W.
25.00	Top of ridge bears N. E. and S. W.
40.00	Set a hacky tie 8 x 14 x 6 ins. 12 ins. in a mound of stone and earth. for 1/4 sec. cor. marked 1/4 S. 36 on W. 31 on E. faces.
	From which an aspen 3 ins in diam bears E. 25 lks. marked 1/4 S. 31 B. T.

West bdy. of T. 28 S., R. 4 W. concluded.

Chains.	
	an Aspen 3 ins in diam, bears N 21 lks. dist. marked 1/4 S. 36 B.T.
80.00	The cor. of Tps. 28 and 29 S., Rs. 4 and 5 W. 1 20 ft below 1/4 sec cor.
	Land, mountainous
	Soil, stony 4th rate.
	Timber, aspen and pine
	Mountainous land and
	Heavily timbered 80.00 ctrs.
	August 27th 1900.

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

Latitudes, departures and closing errors.

Line	designated	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
South bdy.		West	474.10				474.10
W. bdy		North	493.40	493.40			
N. bdy		N 86°15' E	62.96	4.13		62.83	
"		N 89°47' E	81.28	.31		81.28	
"		S 89°18' E	81.42		.99	81.42	
"		S 89°19' E	81.20		.97	81.20	
"		S 89°42' E	40.40		.21	40.40	
		S 89°41' E	40.50		.22	40.50	
		N 87°28' E	40.80	1.76		40.76	
		N 89°18 E	40.34	.49		40.34	
E. bdy		S 1°09' E	80.70		80.68	1.61	
E. "		"	80.81		80.79	1.62	
"		"	80.42		80.40	1.61	
"		S 0°02 E	15.90		15.90	.01	
"		"	240.00		240.00	.14	
	Convergency					.56	
	Totals			500.09	500.16	474.28	474.10
					500.09	474.10	
	Error in lat and departure.				.07	.18	

Hubert D. Page
Harry Erwin
U.S. Deputy Surveyors

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 11th 1903, 189

The foregoing field notes of the survey of The West Boundary of Township 28 South Range 11 West of the Salt Lake Base & Meridian, Utah

.....

.....

.....

executed by Verbal Page and Harry Erwin under the Contract No. 2[illegible] dated November 24, 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.

BLANK

PAGE

BLANK

PAGE

Ex'd
H.A.M.B.

P.

BOOK A-293

FIELD NOTES

Ex. 3.B.

OF THE SURVEY OF THE

Subdivision

of

Township No. 28 South.

Range No. 4 West.

Of the Salt Lake base and Meridian,

In the state of Utah

AS SURVEYED BY

Hubert D. Page and Harry Erwin, United States Deputy Surveyors

Under ~~his~~ their Contract No. 232, dated November 24th, 1899

Survey commenced August 28th, 1900

Survey completed September 12th, 1900

6—151

high 60-47-42

Clog 1.41-89

U.S.M.M. 33.56

NAMES AND DUTIES OF ASSISTANTS.

Willie L. Neal, Chainmen

Alfred H. Shorten, "

Orson M. Alfred, Moundman

Otis S. Allen, Axman

Herbert Price, "

Orson M. Alfred Flagman

For preliminary affidavits see book J. Tp 295 R5 W

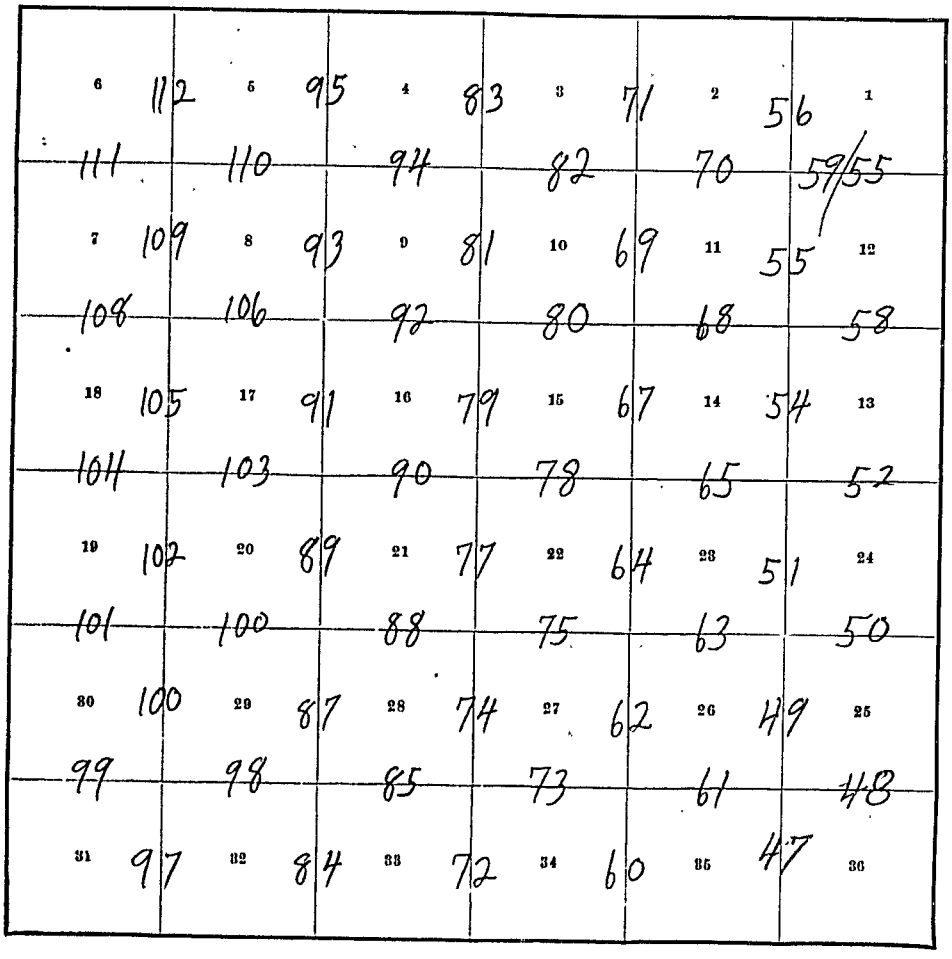
6—151

Volume
#
R0293

BOOK A-293

INDEX DIAGRAM.

Township 28 S., *Range* 4 W.



Meanders Page.....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain 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

_____

_____

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

Chains	
	Survey Commenced August 28, 1900 and executed with the instrument described in Book O of this survey. We know from recent observations made on the north west shore of Puffer Lake, August 23, 1900 and recorded in book O. of this survey, the instrument to be in adjustment.
	Aug. 28: At the Cor. of secs. 35 and 36, on the South bdy. of T. 28 S. R. 4 W. heretofore described. At 8 A. M. l. m. t we set off 38°20' N. on the lat arc: 9°46' N. on the decl. arc: and determine a true meridian with the solar. Thence we run N. 0°1' W. bet. secs. 35 and 36. Over steep, stony ascent through scattering mahogany, pinion timber and dense artimesa.
7.50	Top of ridge, bears E. and W. Descend.
26.50	Ten Mile Creek, 5 lks. wide, pure water, 10 ins. deep, and Cañon 200 ft. deep, Course E. ascend.
26.65	Wood road, bears E. and W. Begin steep ascent over Stony Soil.
40.00	Set a trachyte stone 15×8×5 ins. 10 ins. in the ground, for ¼ sec.

#2

Chains	
	cor. marked ¼ S. 35 on W. and 36 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
80.00	Set a trachyte stone 24 x 8 x 8 ins. 18 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land mountainous. Soil stony, 3rd Rate. Timber pinion. Mountainous land and dense undergrowth, 80.00 chs.
	E. on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of township. 15.85 chs. S. 0° 02' E. of cor. of secs. 25, 30, 31 and 36, which is a pine tree, marked and witnessed as described by the Surveyor General. We destroy marks pertaining to secs. 36 and 25. Set a trachyte stone 16 x 8 x 5 ins. 11 ins. in the ground, for closing cor. of secs. 25 and 36, marked C.C. on the W. face, with 1 groove on S. and 5 grooves on W. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Thence we run

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

Chains	
	W. on a true line bet. secs. 25 and 36. Over rolling land, ascend through dense artimesa and Mahogany brush.
39.98	Set a trachyte stone 16×10×6 ins, 11 ins. in the ground, for ¼ sec. cor. marked ¼ S. 25, on N. and 36, on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable, descend.
70.60	Bottom of ravine, 200 ft. deep, course S. ascend.
79.96	The cor. of secs. 25, 26, 35 and 36. Land rolling. Soil stony 3rd Rate. No timber. Dense undergrowth, 79.96 chs.
	Aug. 28: at this cor. we set off 9°42' N. on decl. arc: and at 0h 1m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°21' N
	N. 0°1' W. bet. secs. 25 and 26. Over stony land, ascend through dense artimesa and Mahogany.
8.00	Top of trachyte ledges, 50 ft. high, bear N.E. and S.W.
21.00	Top of spur, projects E. descend.
40.00	Set a trachyte stone 15×9×6 ins. 10 ins in the ground, for ¼ sec. cor. marked ¼ S. 26, on W. and 25, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

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

Chains	
66.00	Bottom of ravine, 200 ft. deep, Course W. E. Ascend.
80.00	Set a trachyte stone 24 x 14 x 12 ins. 18 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 on E. 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 scattering pinion. Dense undergrowth. 80.00 Chs.
	E. on a random line bet. secs. 24 and 25.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect E. bdy. of township, 15.80 chs. S 0°02' E. of Cor. of secs 19, 24, 25 and 30 and destroy marks pertaining to secs. 24 and 25. which is a quartzite stone 6 x 12 x 6 ins. above the ground, marked and witnessed as described by the Surveyor General. Set a quartzite stone 14 x 8 x 8 ins. 10 ins. in the ground, for closing Cor. of secs. 24 and 25, marked C.E. on W. face, with 2 grooves on S. and 4 grooves on W. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Thence we run West on a true line bet. secs. 24 and 25. Over stony soil, descend.
3.00	Enter heavy cedar and pinion timber, bears W. and S.
14.85	Road to Park Co's. Mine, bears

Chains	
	W. W. and S. E.
15.00	Bottom of Gold Run Canon, 300 ft. deep, Course S. E. ascend. Leave heavy timber, enter scattering pine and dense artimesa, oak and mahogany.
39.95	Set a trachyte stone 13 x 10 x 5 ins. 9 ins. in the ground for ¼ Sec. Cor., marked ¼ S. 24. on N. and 25. on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
66.60	Bottom of ravine, 200 ft. deep. Course N. E. ascend. Leave scattering timber.
79.90	The Cor. of Secs. 23, 24, 25 and 26. Land mountainous. Soil stony 3rd and 4th Rate. Timber, Cedar, pinion and pine. Heavily timbered mountainous land or dense undergrowth. 79.90 chs. August 28, 1900

August 29: At 8 A. M. L. M. A. we set off 38° 22' N. on Lat. arc: 9' 24" N. on Decl. arc: and determine a true meridian, with the Solar, at the Cor. of Secs. 23 24 25 and 26. Thence we run N. 0° 1' W. bet. Secs. 23 and 24. Ascend. through dense oak and mahogany bush.

5.00	Top of Spur, projects E. descend.
15.00	Bottom of Gold Run Canon, 250 ft. deep, Course E. Ascend.
15.25	Road to Park Co. Mines bears E. and W. Enter scattering Cedar and pinion timber.
40.00	Top of mountain ridge, bears

Chains	
	E. and W. Leave scattering timber. Set a trachyte stone 12×8×8 ins. 8 ins. in the ground, for ¼ sec. Cor., marked ¼ S. 23. on W. and 24 on E. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable
	Descend
70.90	Begin steep descent. Point for sec. cor. falls on steep stony slope, subject to slides: therefore we set a quartzite stone 16×12×8 ins. 11 ins. in the ground, for witness Cor. to Cor. of secs. 13, 14, 23 and 24, marked W. C. on N. E. face: with 3 notches on S. and 1 notch on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
80.00	Sec. cor. falls on slide rock, and cannot be set. Land mountainous Soil stony 3rd Rate Timber Cedar and pinion. Dense undergrowth and Mountainous land. 80.00 chs.
	From the witness Cor. of secs. 13, 14, 23 and 24, we run E. on an offset line.
40.00	Offset N. 9.10 chs. Set temp. ¼ sec. cor. Thence E. on a random line, bet. secs. 13 and 24.
79.88	Intersect E. bdy. of Tp. 1590 chs. S. 0°02' E. from the cor. of secs. 18 & 19

Chains	
	which is a quartzite stone 6 x 12 x 6 ins. above the ground, marked and witnessed as described by the Surveyor General. Set a trachyte stone 14 x 8 x 6 ins. 10 ins. in the ground, for closing Cor. of Secs. 13 and 24, marked C.C. on W., and with 3 grooves on N. and S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Thence run West on a true line bet. Secs. 13 and 24. Ascend over stony soil, through dense arizonica, oak and mahogany bush and scattering Cedar and pinion timber.
22.00	Top of spur, projects N.E. descend.
39.94	Set a quartzite stone 18 x 6 x 5 ins. 12 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 13. on N. and 24. on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable. Leave timber, bears N.W. and S.E.
	To pass perpendicular ledges and steep slide rock, run offset S., 9.10 chs. dist: Thence west on offset line. Over stony, broken land.
43.00	Bottom of ravine, 300 ft. deep Course N.E. ascend.
62.00	Top of spur, projects N. descend.
79.88	The witness Cor: to Cor. of Secs. 13, 14, 23 and 24. This cor. is 1000 ft. above the Closing cor. of Secs. 13 and 24.

Chains	
	on the east bdy. of the township.
	From the witness Cor. U.S.M.M. No. 4 M.L. Baldy M.C. bears S. 15° 41' E. 2180 chs. dist.
	Land mountainous.
	Soil stony 4th Rate.
	Timber Cedar and pinion.
	Mountainous land. 79.88 chs.
	August 29: At this Cor. we set off 9° 20' N. on decl. arc: and at 0h 01m p. m. l. m. t. observe the sun on the meridian. the resulting lat. is 38° 23' N.
	From the point for cor. to secs. 13, 14, 23 and 24
	We run North, bet. secs. 13 and 14. on a Sectional Guide Meridian Line.
	Over steep slide rock, broken ledges and boulders, descend through scattering mahogany.
23.00	Cottonwood Creek. 10 lks. wide. pure water. 6 ins. deep. in Cañon, 1000 ft. deep. Course E. ascend.
23.40	Cañon road, bears E. and W.
	Begin steep ascent.
32.90	Top of spur, projects S. E. descend.
35.50	Begin ascent.
37.70	Top of spur, projects S E. descend.
40.00	Point for ¼ sec. cor. falls on steep slope, subject to slides, and cannot be set.
41.10	Set a trachyte stone 18 x 16 x 12 ins. 12 ins. in the ground. for witness cor. to ¼ sec. cor., marked W. C. ¼ S. 14. on W. and 13, on E. faces: and raise a

Chains	
	mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Ascend along the east slope of Heertrail mountain, along the foot of perpendicular ledges 400 ft. high, bearing N. and S. over stony soil and boulders through scattering cedar and pinion timber.
80.00	Set a Sandstone 24 x 12 x 10 ins. 18 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: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. This cor. is 1500 ft. above Cottonwood Creek. Land Mountainous. Soil Stony. 4th Rate. Timber Cedar and pinion. Mountainous land, 80.00 Chs.
	N. on a Sectional Guide Meridian line, bet. secs. 11 and 12. Descend over Sandstone ledges, bearing N. W. and S. E. 500 ft. high.
21.50	Leave ledges, bear N. W. and S. E. Cover rolling foothills, descend through dense artimesa, scrub oak, and scattering cedar and pinion timber.
40.00	Set a trachyte stone 15 x 12 x 8 ins, 10 ins in the ground, for ¼ sec. Cor. marked ¼ S. 11, on W. and

Chains	
	12 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this Cor. U. S. M. M. No. 3 Mt. Buldy M. D. bears S. 45° 28' W. 10.54 Chs.
72.00	Bottom of ravine, 150 ft. deep. Course N. 85° E. ascend.
80.00	Set a trachyte stone 24 x 10 x 4 ins. 18 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S, and 1 notch on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land rolling and mountainous. Soil stony 3rd and 4th Rate. Timber. Cedar and pinion. Dense undergrowth or mountainous land; 80.00 chs. August 29, 1900
	Aug. 30: At 8 A. M. l. m. t. we set off 38° 24' on the lat. arc: 9° 03' N. on the decl. arc: and determine a true meridian with the solar, at the cor. of secs. 1, 2, 11 and 12. Thence we run N. on a Sectional Guide Meridian, bet. secs. 1 and 2. Over rolling land, ascend through dense artimesa and scattering cedar and pinion timber.
19.00	Top of ridge bears E. and W. Descend through dense scrub oak.
32.00	Bottom of ravine, 60 ft. deep.

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

Chains	
	Course N. E.
40.00	Set a quartzite stone, 14 x 10 x 6 ins. 10 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. 2. on W. and 1 on E. faces: from which
	A Cedar, 12 ins. diam., bears W. 42 lks. dist. marked ¼ S. 2. B. T.
	Also a fir tree within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
43.00	Enter heavy Cedar and pinion timber, bears E. and W.
47.00	Bottom of ravine, 70 ft. deep, Course N. E.
60.00	Top of spur, projects E.
70.00	Clear 30 ft. deep Course S. E. along bottom of ravine.
92.00	Leave heavy timber, bears N. E. and S. W.
95.45	Intersect N. bdy. of T. N. 87° 28' E. 5.80 chs. dist. from the Cor. of Secs. 35 and 36, which is a sandstone 6 x 14 x 8 ins. above the ground, marked and witnessed as described by the Surveyor General
	Set a Trachyte stone 12 x 10 x 8 ins. 8 ins. in the ground for closing Cor. of Secs. 1 and 2, marked C. C. On S. face, with 1 groove on E. and 5 grooves on W. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of Cor. Pits impracticable
	Land rolling
X	Soil stony. R. & ft.
	Timber Cedar and pinion

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

Chains	
	Heavily timbered or dense undergrowth, 95.45 chs.
	Aug. 30: At this Cor. we set off 8° 59' N. on the decl. arc: and at 0h 1m p. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 25' N
	From the Cor. of secs. 11, 12, 13 and 14. We run E. on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
78.65	Intersect E. bdy. of township. 16.30 chs. S. 1° 09' E. of cor. of secs. 7 and 18, previously described.
	This corresponds to the retracement. Set a trachyte stone 15 x 10 x 6 ins. 10 ins. in the ground, for closing Cor. of secs. 12 and 13, marked C.C. on W. face, with 4 grooves on S. and 2 grooves on N. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
	Thence we run West on a true line bet. secs. 12 and 13.
	Over rolling land, ascend through dense artimesa.
25.00	Enter scattering Cedar and pinion, timber bears N. and S.
38.65	Set a quartzite stone 14 x 8 x 5 ins. 10 ins. in the ground, for ¼ sec. Cor., marked ¼ S. 12 on N. and 13 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Chains	
	Pits impracticable.
43.00	Enter heavy cedar and pinion timber. bears N. and S.
60.00	Bottom of ravine, 50 ft. deep. Course N.E. Leave timber bears N.E. and S.W.
	Begin steep ascent over boulders and sandstone ledges bearing N.W. and S.E.
78.65	Top of ledges, 600 ft. high, bear N.W. and S.E.
	The cor. of secs. 11, 12, 13 and 14.
	Sand mountainous
	Soil Stony, 3rd and 4th Rate.
	Timber, Cedar and pinion.
	Mountainous land, heavily timbered or dense undergrowth. 78.65 chs.

	E. on a random line.
	Set secs. 1 and 12.
40.00	Set temp. ¼ sec. cor.
76.75	Intersect E. bdy. of township 16.80 chs. S. 1° 00' E. of cor. of secs. 6 and 7.
	previously described.
	This corresponds to the retracement.
	Set a Brachytes stone 8 x 8 x 6 ins. 12 ins in the ground, for closing cor. of secs. 1 and 12. marked C.C. on W. face and 5 grooves on the S. and 1 groove on the N. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Thence we run
	W. on a true line
	Set secs. 1 and 12.
	Over rolling land, no wood through

Chains	
	dense artimesa
18.50	Bottom of ravine, 60 ft. deep, Course N. Enter Scattering cedar and pinion timber, bears N. E. and S. W.
36.75	Set a trachyte stone 15 x 9 x 5 ins. 10 ins. in the ground, for ¼ sec. cor, marked ¼ S. 1, on N. and 12 on S. faces. And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
43.50	Bottom of ravine, 100 ft. deep, Course N.E.
76.75	The cor. of secs. 1, 2, 11 and 12. Land rolling. Soil stony. 3rd Rate Timber, cedar and pinion. Dense undergrowth. 76.75 chs. August 30: 1900
	Aug. 31: At 8 A. M. l. m. t. we set off 38° 20' N on lat. arc: 8° 41' N. on decl. arc: and determine a true meridian with the solar at the cor. of secs. 34 and 35. on the S. bdy. of the township heretofore described. Thence we run N. 0° 1' W. bet. secs. 34 and 35. Descend through dense artimesa.
8.00	Bottom of ravine, 100 ft. deep, Course E. ascend.
14.90	Top of ridge, bears E. and W. descend.
34.50	Begin Steep descent.
35.40	Junction of two ravines, from N. W. and N. 5° W. Course S. E. Steep ascent. Wood road, bears N. W. and S. E. enter scattering cedar, pinion and dense mahogany.
40.00	Set a trachyte stone 13 x 8 x 6 ins. 9 ins. in the ground, for ¼ sec. cor, marked ¼ S. 34, on W. and 35, on E. faces and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

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

Chains.	
	Pits impracticable
80.00	Set a Stachyte stone 12 x 12 x 5 ins. 8 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: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	This cor. is 500 ft. above, bottom of ravine.
	Land mountainous.
	Soil stony 3rd Rate.
	Timber, cedar and pinion.
	Lime undergrowth and mountainous land, 80.00 chs.
	E. on a random line
	bet. Secs. 26 and 35.
40.00	Set temp. ¼ Sec. cor.
80.00	Intersect W. and S. line
	at cor. of secs. 25, 26, 35 and 36.
	Thence in run
	W. on a true line
	bet. Secs. 26 and 35.
	Over stony land ascend through dense arbutus and mahogany.
12.65.	Top of Stachyte ledges, 100 ft. high. Bear N. and S.
13.80	Top of spur, projects S, descend.
37.60	Bottom of ravine, 400 ft. deep, Course S. E. ascend.
40.00	Set a Stachyte stone 14 x 8 x 6 ins. 10 ins. in the ground, for ¼ Sec. cor. marked ¼ S. 26 on N. and 35. on S. faces: and raise a mound of stone 2 ft. base 1½ ft. high. W. of cor.
	Pits impracticable.
44.00	Top of spur, projects S. descend.

Chains	
61.80	Bottom of ravine, 350 ft. deep, Course S. ascend.
72.00	Top of spur, projects S. descend.
80.00	The cor. of Secs. 26, 27, 34 and 35. Land mountainous. Soil stony 3rd Rate. No timber. Mountainous land 80.00 chs.
	Aug. 31: At this cor. we set off 8° 37' N. on decl. arc: and at 12 M. l. m. t. observe the sun on the meridian, the resulting lat is 38° 21' N
	N. 0° 1' W. bet. secs. 26 and 27. Over steep ascent, through dense artimesa, scrub oak and mahogany.
31.25	Top of mountain ridge, bears E. and W. begin descent through heavy aspen and pine timber.
40.00	Set a trachyte stone 12 x 10 x 5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 27. on W. and 26. on E. faces: from which A aspen, 3 ins. diam. bears S. 80° E. 8 lks. dist. marked ¼ S. 26. B.T. A aspen, 10 ins. diam. bears S. 25° W. 28 lks. dist. marked ¼ S. 27. B.T.
44.00	Bottom of ravine, 300 ft. deep Course E. ascend.
44.50	Leave aspen and pine timber bears E. and W.
66.00	Top of ridge, bears E. and W. Descend.
77.00	Bottom of ravine, 150 ft. deep, Course

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

Chains	
	E. ascend.
80.00	Set a quartzite stone 12 x 8 x 6 ins. 8 ins. in the ground, for cor. of secs. 22, 23, 26 and 27. marked with 2 notches on S. and E. edges: from which
	An aspen, 12 ins. diam. bears S. 85° 30' W. 52 lks. dist. marked T. 28 S. R. 4 W. S. 27, B. T.
	An aspen, 8 ins. diam. bears N. 51° W, 80 lks. dist. marked T. 28 S. R. 4 W. S. 22, B. T.
	No other trees within limits.
	And raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land mountainous
	Soil, stony. 3rd Rate
	Timber cedar and pinion,
	Mountainous land, dense undergrowth or heavily timbered. 80.00 Chs.
	E. on a random line.
	bet. secs. 23 and 26.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line
	at cor. of secs. 23, 24, 25 and 26.
	Thence we run
	W. on a true line
	bet. secs. 23 and 26.
	Ascend, through dense oak brush and mahogany.
10.00	Top of ridge, bears N.E. and S. W.
	Over rolling land, descend
40.00	Set a trachyte stone 20 x 12 x 3 ins. 15 ins. in the ground, for ¼ sec. cor. marked ¼ S. 23 on N. and 26 on

Chains	
	S. faces: from which A pine, 10 ins. diam. bears N. 15° E. 85 lks. dist. marked ¼ S. 23, B. T. No other tree, within limits, and raise a mound of stone 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
42.50	Bottom of ravine, 500 ft. deep. Course N. 70° E.
73.50	Park Co. Mine Shaft. N. 4.50 chs. dist.
80.00	The Cor. of Secs. 22, 23, 26 and 27. Land, rolling. Soil, stony. 3rd Rate Timber, pine. Lime undergrowth. 80.00 chs. August 31, 1910.

Sept. 1: At 8 a. m. l. m. t. we set off 38° 22' on the lat arc: 8° 20' N. on the decl. arc: and determine a true meridian, with the solar, at the Cor. of Secs. 22, 23, 26 and 27.

Thence we run N. 0° 1' W. bet. Secs. 22 and 23. Ascend through dense oak brush and artimisia.

1.00	Road to Park Co. Mine, bears E. and W.
7.00	Top of Spur, projects S. W. descend
22.00	Begin steep descent and ledges, through scattering pine timber.
32.70	Top of trachyte ledges, bear S. W. and N. E. Point for ¼ sec. cor. on steep face of ledges: therefore at this point we cut a cross (X) on the face of a boulder 20 x 10 x 6 ft. above

Chains	
	ground, marked W. C. ¼ S. 22. on W. and 23. on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
40.00	Point for ¼ sec. cor. falls on steep ledges and cannot be set.
50.70	Cottonwood Creek, 5 lks. wide, pure water, 10 ins. deep, and Canon 15.00 ft. deep, Course N. 75° E.
50.80	Canon Road, bears E. and W.
	Begin steep ascent of Elen Triad Mountain, over stony soil, through dense oak brush.
56.30	Bottom of ravine, 150 ft. deep, Course S. 25° E.
80.00	Set a porphyry stone 18 x 12 x 10 ins. 12 ins. in the ground for cor. of secs. 14, 15, 22 and 23. marked with 3 notches on S. and 2 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high W. of cor. Pits impracticable. This cor. is 1200 ft. above Cottonwood Creek. Land mountainous. Soil stony. 3rd and 4th Rate Timber, pine. Mountainous Land 80.00 chs.
	E. on a random line bet. secs. 14 and 23.
40.00	Set stone ¼ sec. cor.
70.00	Offset S. 9.10 chs. dist. to pass ledges and steep slide rock.
80.00	Intersect N. and S. line, at witness cor. to cor. of secs. 13, 14, 23 and 24.
	Thence run

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

Chains	
	W. on an offset line.
10.00	Offset N. 9.10 chs. dist.
	Thence W. on a true line
	bet. secs. 14 and 23.
	Descend over stony broken
	land through dense oak brush,
	Mahogany and scattering pine.
23.00	Cottonwood Creek, 5 lks. wide,
	pure water, 10 ins. deep, and
	Canon 1500 ft. deep course
	N. E.
23.75	Canon road, bears N.E. and S.W.
	Begin ascent, along S. Slope
	of Deer Trail mountain.
	Leave scattering timber.
40.00	Set a porphry stone, 18×10×6 ins:
	12 ins. in the ground, for ¼ sec.
	Cor. marked ¼ S. 14 on N. and
	23 on S. faces: and raise a mound
	of stone, 2 ft. base, 1½ ft. high
	N. of cor.
	Pits impracticable.
50.00	Ravine, 60 ft. deep. Course S.E.
60.00	Top of ridge, bears S.E. and N.W.
68.00	Ravine, 200 ft. deep, Course S.E.
77.60	Top of ridge, bears N.W. and S.E.
80.00	The cor. of secs. 14.15.22 and 23.
	Land mountainous
	Soil stony 4th Rate
	Timber, pine
	Mountainous land. 80.00 chs.
	Sept. 1. At this cor. we set off
	8°16' N. on the decl. arc: and at
	12 m. l.m.t. observe the
	sun on the meridian,
	the resulting lat. is
	38° 23' N

Chains	
	N. 0° 1' W. bet. Secs. 14 and 15.
	Ascend. along the west slope of Elen Trail Mountain over
	stony soil, through scattering
	scrub oak and mahogany bush.
10.00	Top of ridge, bears N.W. and S.E.
21.00	Head of ravine, course, S.E.
31.50	Top of ridge, bears N.W. and S.E.
40.00	Set a porphyry stone 6 x 10 x 6 ins. 11 ins.
	in the ground, for ¼ Sec. cor.
	marked ¼ S. 15 on W. and 14 on
	E. faces: and raise a mound
	of stone 2 ft. base, 1½ ft. high,
	W. of cor.
	Pits impracticable.
57.00	Top of Elen Trail Mountain, 10,000 ft. above sea level,
	bears N. 80° E. and S. 80° W. descend
	Enter heavy pine timber bears
	E. and W.
80.00	Set a quartzite stone, 18 x 15 x 4 ins.
	12 ins. in the ground, for cor. of
	Secs. 10, 11, 14 and 15. marked with
	4 notches on S. and 2 notches,
	on E. edges: from which
	A pine, 14 ins. diam. bears N. 87° E. 17 lks. dist.
	marked, T. 28 S, R. 4 W. S. 11, B. T.
	A pine, 30 ins. diam. bears S. 40° E. 11 lks. dist.
	marked T. 28 S, R. 4 W, S. 14, B. T.
	A pine, 18 ins. diam. bears S. 55° W. 10 lks. dist.
	marked T. 28 S. R. 4 W, S. 15. B. T.
	A pine, 10 ins. diam. bears N. 18° W. 25 lks. dist.
	marked T. 28 S. R. 4 W. S. 10, B. T.
	Land mountainous
	Soil, Stony. 4th Rate
	Timber pine.
	Mountainous Land, 80.00 chs.

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

Chains	
	E. on a random line bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line, at cor. of secs. 11, 12, 13 and 14. Thence we run W. on a true line bet. secs. 11 and 14. Over broken stony land ascend along the north east slope of Deer Trail mountain through scattering pine timber, dense oak and mahogany brush.
39.95	Set a trachyte stone 18 × 6 × 5 ins. 12 ins. in the ground, for ¼ sec. cor. marked ¼ S. 11. on N. and 14 on S. faces: from which A pine, 6 ins. diam. bears N. 15° W. 30 lks. dist. marked ¼ S. 11, B. T. A pine, 8 ins. diam. bears S. 75° E. 25 lks. dist. marked ¼ S. 14, B. T. Enter heavy timber. bears N. W. and S. E.
72.40	Top of rocky spur, projects N. E.
79.90	The cor. of secs. 10, 11, 14 and 15. This cor. is 800 ft. above the cor. of secs. 11, 12, 13 and 14. Land, Mountainous. Soil, Stony. 4th Rate. Timber, pine Mountainous land, 79.90 chs. Sept. 1, 1900

Sept. 2: At 8 A.M. l.m.t. we set off 38°23' N on the lat arc: 7°58' N on the decl. arc: and determine a true meridian with the solar, at the cor. of secs. 10, 11, 14 & 15.

Chains	
	N. 0° 1' W. bet. Secs. 10 and 11. Over broken stony land, descend through heavy pine timber.
32.00	Bottom of ravine, 250 ft. deep Course N. E. ascend Leave timber bears N. E. and S. W. enter dense oak and Artimesia.
40.00	Set a quartzite stone 24 x 10 x 4 ins. 18 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 10. on W. and 11. on E. faces: and raise a mound of stone, 2 ft. base: 1½ ft. high. W. of Cor. Pits impracticable.
64.00	Enter heavy aspen and scattering pine timber, bears N. E. and S. W.
70.00	Top of ridge, bears N. E. and S. W. Descend.
80.00	Set a porphyry stone 20 x 12 x 4 ins. 15 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, A pine, 4 ins. diam, bears N. 2° E. 13 lks. dist. marked T. 28 S, R. 4 W, S. 2. B. T. A aspen, 3 ins. diam, bears S. 40° E. 57 lks. dist. marked T. 28 S, R. 4 W. S. 11, B. T. A aspen, 3 ins. diam, bears S. 60° W. 10 lks. dist. marked T. 28 S, R. 4 W, S. 10. B. T. A pine, 4 ins. diam, bears N. 25 W. 9 lks. dist. marked T. 28 S. R. 4 W. S. 3. B. T. Land mountainous Soil stony. 3rd and 4th Rate Timber, aspen and pine, Mountainous Land and dense undergrowth 80.00 chs.

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

Chains	
	E. on a random line.
	bet. secs. 2 and 11.
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line
	7 lks. N. of cor. of secs. 1, 2, 11 and 12.
	Thence we run
	N. 89° 57' W. on a true line
	bet. secs. 2 and 11.
	Over stony soil, ascend through heavy cedar and pinion timber.
27.00	Leave timber bears N. and S.
	enter dense artimesa and oak brush
35.00	Top of spur, projects S.
39.96	Set a trachyte stone 15 x 8 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 2. on N. and 11. on S. faces: and raise a mound of stone. 2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
	Begin steep ascent over broken land.
70.00	Top of high mountain ridge 1000 ft above cor. of secs. 1, 2, 11 and 12.
	Course N. E. and S. W.
	Descend through aspen and scattering pine timber
79.92	The cor. of secs. 2, 3, 10 and 11.
	Land Mountainous
	Soil, stony 3rd and 4th Rate.
	Timber, aspen, cedar, pinion and pine.
	Mountainous land, heavily timbered and dense undergrowth, 79.92 chs.
	Sept. 2: At this cor. we set off 7° 54' N. on the decl. arc: and at 6h 12 m. p.m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 24' N

Chains	
	N. 0° 1' W. on a random line bet. Secs. 2 and 3.
40.00	Set temp. ¼ Sec. Cor.
95.48	Intersect - N. body of Jr. S. 89° 42' E. 6.90 chs. dist. from the Cor. of Secs. 34 and 35. which is a Sandstone 6 x 12 x 8 ins. above the ground, Marked Q ¼ witnessed as described by Surveyor General. Set a porphyry stone 18 x 15 x 6 ins. 12 ins. in the ground, for closing Cor. of Secs. 2 and 3. Marked C.C. on S. face: with 2 grooves on E. and 4 grooves on W. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of Cor. Pits impracticable. Thence run S. 0° 1' E. on a true line bet. Secs. 2 and 3. Ascend, over rolling land, through dense oak brush, mahogany and scattering pine.
55.48	Set a porphyry stone 28 x 25 x 24 21 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. 3. on W. and 2. on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. This ¼ Sec. Cor. is situated on top of a Spur, projecting N. E. 300 ft. above closing Cor. of Secs. 2 and 3. Descend.
69.40	Ravine, 200 ft. deep, course N. E. Ascend.
84.50	Ravine, 150 ft. deep, course N. E. Enter as pen timber, bears N. E. and S. W.
95.48	The Cor. of Secs. 2, 3, 10 and 11. 600 ft. above closing Cor. of Secs. 2 and 3.

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

Chains	
	Land mountainous. Soil, stony 3rd and 4th Rate. Timber, aspen and pine. Dense undergrowth and Mountainous land. 9548 chs. Sept. 2, 1900
	Sept. 3: At 8 A.M. l.m.t. we set off 38°20' N on the lat. arc: 7°36' N on the decl. arc: and determine a true meridian with the solar, at the cor. of secs. 33 and 34 heretofore described. On the S. bdy. of the Tp. Thence we run N. 0°2' W. bet. secs. 33 and 34. Over stony broken land. Ascend through scattering pine timber, dense scrub oak and mahogany brush.
39.00	Top of ridge. bears N.W. and S.E. Begin descent.
40.00	Set a trachyte stone 24 x 20 x 12 ins. 18 ins. in the ground. for ¼ sec. Cor. marked ¼ S. 33 on W. and 34 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
44.00	Enter heavy cedar aspen and pine timber bears N.W. and S.E.
68.00	Ravine, 50 ft. deep. course E. Leave heavy timber, enter scattering aspen, bears E. and W. Ascend.
80.00	Set a trachyte stone 14 x 12 x 6 ins. 10 ins. in the ground, for cor. of secs. 27, 28, 33 and 34. marked with 1 notch on S. and 3 notches

Chains	
	on E. edges: from which Aspen, 6 ins. diam. bears S. 10° E., 10 lks. dist.- marked T. 28 S. R. 4 W. S. 34, B. T. No other trees within limits. and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land rolling Soil: stony 3rd and 4th Rate Timber, Cedar, pine and Aspen Dense undergrowth or heavily timbered 80.00 chs.
	E. on a random line bet. secs. 27 and 34.
40.00	Set stone. ¼ sec. cor.
80.00	Intersect- N. and S. line at cor. of secs. 26, 27, 34 and 35. Thence run W. on a true line bet. secs. 27 and 34. Over rolling land, descend through dense undergrowth, scrub oak and scattering Cedar timber.
1.75	Draw, 30 ft. deep, course S.
4.85	Top of Spur, projects S.
22.00	Ravine, 200 ft. deep course S. Begin ascent-
40.00	Top of Spur, projects S. Set a quartzite stone, 14 x 10 x 8 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 27, on N. and 34. on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Descend.

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

Chains	
50.00	Ravine. 100 ft. deep. Course S. ascend
66.00	Top of spur, projects S. descend
75.00	Enter scattering aspen timber bears N. and S.
78.00	Spring branch, course S. 1 ft wide ascend.
80.00	The cor. of secs. 27, 28, 33 and 34. Land rolling. Soil stony 3rd Rate Timber Cedar and Aspen. Dense undergrowth. 80.00 chs.
	Sept. 3. At this cor. we set off 7°32' N on the decl. arc: and at 11h59m a. m. l. m. t. observe the sun on the meridian the resulting lat. is 38°21' N
	N. 0°2' W. bet. secs. 27 and 28. Over rolling land, ascend through dense artimesa, oak brush, mahogany brush and scattering aspen timber.
38.50	Top of mountain ridge, bears E. and W. begin steep descent through heavy spruce, pine and aspen timber.
40.00	Set a trachyte stone 18 x 12 x 4 ins. 12 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 28. on W. and 27 on E. faces: from which A pine, 10 ins. diam. bears N. 15° E. 10 lks. dist. marked ¼ S. 27. B. T. All other trees within limits are dead or fallen. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

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

Chains	
	Pits impracticable.
70.00	Road to Crystal Mine.
	bears N. W. and S. E.
80.00	Set a trachyte stone 18 x 13 x 4 ins. 12 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:
	from which
	A aspen, 2 ins. diam. bears S. 45° E. 10 lks. dist. marked T. 28 S. R. 4 W. S. 27, B. T.
	A aspen, 3 ins. diam. bears S. 45° W. 15 lks. dist. marked T. 28 S. R. 4 W., S. 28, B. T.
	No other trees of sufficient diameter within limits.
	And raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
	Land mountainous
	Soil, stony 3rd Rate
	Timber, Spruce pine and aspen.
	Mountainous land, dense undergrowth or heavily timbered. 80.00 chs.
	E. on a random line bet. secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line, 16 lks. N. of cor. of secs: 22, 23, 26 and 27.
	Thence we run
	N. 89° 53' W. on a true line bet. secs. 22 and 27.
	Ascend, through scattering aspen and pine and dense artimesa.

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

Chains	
4.00	Saddle on ridge, bears N. E. and S. W. descend.
5.00	Elbow in road to Park Co. Mine, bears N. W. and N. E.
18.00	Enter heavy pine and aspen timber, bears N. and S.
21.00	Bottom of ravine, 350 ft. deep. Course N. ascend.
39.99	Set a trachyte stone 13 x 9 x 6 ins. 9 ins. in the ground, for ¼ sec. cor. marked ¼ S. 22, on N. and 27. on S. faces: from which A aspen, 8 ins. diam. bears N. 60 lks. dist. marked ¼ S. 22. B. T. A aspen, 3 ins. diam. bears S. 72 lks. dist. marked ¼ S. 27. B. T.
55.00	Top of ridge, bears N. E. and S. W. descend.
70.70	U. S. M. M. No. 2, Mt. Bldg. M. Co., bears North, 1.22 chs. dist.
73.00	Office building of the Crystal Mine, 10 x 18 ft. 5 lks. N. Tunnel 1.00 ch. S.
73.50	Top of quartzite ledges, 2[illegible] ft. high, bear N. and S. Leave pine timber.
78.80	Bottom of ravine, 500 ft. deep Course N. Begin steep ascent, through dense young aspen.
79.98	The Cor. of Secs. 21, 22, 27 and 28. 1000 ft. below Cor. of Secs. 22, 23, 26 and 27. Land, mountainous Soil, Stony, 3rd and 4th Rate. Timber, Aspen and pine. Mountainous land. 79.98 chs.

Sept. 3. 1900

Sept. 4: At 8 A.M. L.M.T. we set off 38° 22' N on lat. arc: 7° 14' N. on decl. arc: and determine

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

Chains	
	a true meridian with the solar. at the Cor. of Secs. 21, 22, 27 and 28.
	Thence we run
	N. 0° 2' W. bet. Secs. 21 and 22.
	descend through heavy aspen and scattering pine timber.
10.25	Cottonwood Creek, 8 lks. wide, pure water, 6 ins. deep, and Canon 1000 ft. deep. Course E.
	Leave pine timber, ascend
14.65	Canon road, bears N. E. and S. W.
	Enter dense aspen and scattering groves of aspen timber
40.00	Set a trachystone 16 x 10 x 6 ins. 11 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 21, on W. and 22, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
50.00	Enter dense oak and mahogany brush.
60.00	Top of Spur, projects S. E. Begin descent over quartz boulders, and broken land through scattering cedar, pine and aspen timber.
80.00	Set a quartzite stone 24 x 10 x 4 ins. 18 ins. in the ground, for Cor. of Secs. 15, 16, 21 and 22 Marked T. 28 S. on N. E. and R. 4 W. on S. E. faces: with 3 notches on S. and E. edges: And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.

Chains	
	Pits impracticable Land Mountainous Soil. Stony. 3rd and 4th Rate. Timber. Cedar, pine and Aspen. Mountainous Broad, heavily timbered or dense undergrowth. 20.00 chs.
	S. 89° 53' E. on a random line bet. secs. 15 and 22.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect W. and S. line, 5 lks S. of Cor. of secs. 14, 15, 22 and 23. Thence we run N. 89° 55½' W. on a true line bet. secs. 15 and 22. Along the South west Slope of Elen Trail Mountain. Descend over Stony, broken Soil, through Scattering mahogany brush.
10.00	Bottom of ravine, 200 ft. deep. Course S. E. Ascend
37.00	Top of ledges 100 ft. high & ridge, bears N. W. and S. E. descend. Point for ¼ sec. cor. falls on slide rock. therefore at this point we set a quartzite rock, 30×15×10 ins. 23 ins. in the ground, for witness Cor. to ¼ sec. cor. marked W. C. ¼ S. 15, on N. and 22 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
40.00	Point for ¼ sec. Cor. falls on slide rock, & cannot be set. Center quartz boulders and slide rock.

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

Chains	
66.00	Enter scattering aspen and pine timber bears N. W. and S. E.
67.75	Wood road, bears N.W. and S. E.
68.00	North fork of Cottonwood Creek, 3 lks wide, pure water 4 ins. deep, and Canon, 800 ft. deep course S. E. Begin ascent over boulders.
80.06	The Cor. of Secs. 15, 16, 21 and 22. Land mountainous. Soil, stony. 4th Rate. Timber, aspen and pine, Mountainous land, 80.06 chs.
	Sept. 4: At this Cor. we set off 7°10' N. on the decl: arc: and at 11h59m A. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°23' N
	N. 0°2' W. bet. secs. 15 and 16. Over stony soil, descend through heavy cedar and pine timber.
13.00	North fork of Cottonwood Canon 800 ft. deep, and Creek 3 lks. wide pure water, 4 ins. deep. Course S. E. begin ascent
13.50	Wood road, bears N. W. and S. E. Leave heavy timber, bears N. W. and S. E. enter scattering aspen and pine timber.
22.00	Leave timber bears N. W. and S. E. Begin steep ascent over quartzite boulders.
33.50	Point for ¼ sec. cor. falls on steep slide rock, therefor we set a

Chains	
	quartzite stone 18×16×6 ins. 12 ins in the ground, for witness cor. to ¼ Sec. cor. marked W. C. ¼ S. 16 on W. and 15 on E. faces: and raise a mound of stone 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
40.00	Point for ¼ sec. cor. falls on Slide rock and Cannot be set.
52.00	Top of steep ascent.
70.00	Enter dense aspen and scattering pine timber, bears N. W. and S. E.
80.00	Set a blachy test stone 18×8×7 ins. 12 ins. in the ground, for cor. of secs. 9, 10, 15 and 16. marked with 4 notches, on S. and 3 notches, on E. edges: from which A aspen, 5 ins. diam, bears N. 80° E. 22 lks. dist, marked T. 28 S. R. 4 W. S. 10. B. T. A aspen, 4 ins. diam, bears S. 25° E, 6 lks. dist. marked T. 28 S. R. 4 W. S. 15, B. T. A aspen, 5 ins. diam, bears S. 64°30' W. 30 lks. dist. marked T. 28 S. R. 4 W, S. 16, B. T. A pine, 20 ins. diam, bears N. 72° W, 20 lks. dist. marked T. 28 S. R. 4 W, S. 9, B. T. Land mountainous Soil, Stony 3rd and 4th Rate. Timber, Cedar, aspen and pine, Mountainous Land 80.00 chs.
	Cl. S 89° 55' E. on a random line dist. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect W. and S. line, 12 lks S. of cor. of secs. 10, 11, 14 and 15. Thence run W. on a true line dist. secs. 10 and 15.

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

Chains	
	Over stony soil. ascend through heavy pine timber.
24.00	Leave timber bears N. and S. Enter dense artimesa and oak brush.
40.00	Set a trachyte stone 16x10x6 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ S. 10, on N. and 15 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable
51.00	Top of Deer Trail mountain, 10000 ft. above sea level, bears N.W. and S.E. descend.
70.00	Begin ascent through scattering pine and aspen timber
72.00	Top of spur, projects S. Enter heavy timber bears N. and S.
80.00	The cor. of Secs. 9, 10, 15 and 16. Land mountainous. Soil, stony. 3rd Rate. Timber, aspen and pine. Dense undergrowth, Mountainous land or heavily timbered. 80.00 chs.

Sept. 4, 1900

Sept. 5. At 8 a.m. l.m.t. we set off 38°23' N on the lat. arc: 6°52' N on the decl. arc: and determine a true meridian with the solar. at the cor. of secs. 9, 10, 15 and 16.

Thence we run N. 0° 2' W. bet. secs. 9 and 10.

Ascend over stony land, through heavy aspen and pine timber.

20.00	Top of Deer Trail Mountain, 10000 ft. above sea level. bears N.W. and S.E. descend.
40.00	Set a porphyry stone, 13x10x10 ins. 9 ins. in the ground, for ¼ sec. cor.

Chains	
	marked ¼ S. 9 on W. and 10 on E. faces: and from which a Pine, 4 ins. diam. bears S. 80° W. 40 lks. dist; marked ¼ S. 9, B. T. A Aspen, 3 ins. diam. bears E. 55 lks. dist; marked ¼ S. 10, B. T.
59.00	Bottom of ravine, 100 ft. disp. Course N. E. ascend.
72.50	Top of ridge, bears N. E. and S. W. Descend.
73.00	16 to 1, Mine Shaft.
80.00	Set a prophyry stone, 13x7x6 ins. 9 ins. in the ground, for cor. of Secs. 3, 4, 9 and 10. marked with 5 notches on S. and 3 notches on E. edges: from which a Pine, 3 ins. diam. bears N. 26° 30' E. 14 lks. dist. marked T. 28 S. R. 4 W. S. 3, B. T. A Aspen, 2 ins. diam. bears S. 45 E. 25 lks. dist. marked T. 28 S. R. 4 W. S. 10, B. T. A Aspen, 15 ins diam, bears S. 11° 30' W. 95 lks. dist. marked T. 28 S. R. 4 W. S. 9, B. T. A pine, 10 ins. diam, bears N. 5° W. 52 lks. dist. marked T. 28 S. R. 4 W. S. 4, B. T. Land mountainous Soil stony. 3rd Rate Timber, aspen and pine. Mountainous land and heavily timbered 80.00 chs.
	E. on a random line bet. Secs. 3 and 10.
40.00	Set temp. ¼ Sec. Cor.
80.04	Intersect N. and S. line 3 lks. S. of cor. of Secs. 2, 3, 10 and 11. Thence run S. 89° 59' W. on a true line bet. Secs. 3 and 10.

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

Chains	
	Over broken land descend through heavy aspen and pine timber
22.00	Leave timber, bears N.E. and S. W.
34.00	Ravine, 150 ft. deep, Course N. E. descend.
40.02	Set a stachytestone 16 x 10 x 6 ins. 11 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 3, on N. and 10 on S. faces; and raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
68.00	Top of stachyte ledges, 100 ft. high bears N.E. and S. W.
75.30	Top of mountain ridge, bears N.E. and S. W. Descend through heavy aspen and pine timber.
80.04	The cor. of Secs. 3, 4, 9 and 10. 600 ft. above above cor. of Secs 2, 3, 10 and 11. Land mountainous Soil stony 4th Rate Timber aspen and pine. Mountainous land 80.04 chs.

Sept. 5: At this cor. we set off 6° 47' E. var. decl. and at 11h 59m A. M. L. M. T. observe the sun on the meridian, the resulting lat. is 38° 24' N.

N. 0° 2' W. on a random line bet. Secs. 3 and 4.

40.00	Set temp. ¼ Sec. cor.
96.66	Intersect N. bdy. of township, S. 89° 19' E. 8.12 chs. dist. from the cor. of Secs. 3-3 and 3-4, which is a quartzite rock 6 x 10 x 6 ins. above ground, marked ¼ witnessed as described by Surveyor General.

Chains	
	Set a trachyte stone 16 x 10 x 6 ins. 11 ins. in the ground, for closing cor. of secs. 3 and 4. Marked C.C. on S. face with 3 grooves on E. and W. faces. and raise a mound of stone. 2 ft. base. 1½ ft. high. S. of cor. Pits impracticable. Thence we run S. 0° 2' E. on a true line bet. secs. 3 and 4. Over rolling land, ascend along the west slope of mountain ridge, through dense artimeso, scrub oak and mahogany.
56.65	Set a trachyte stone 15 x 10 x 6 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 4 on W. and 3 on E. faces: and raise a mound of stone, 2 ft. base. 1½ ft. high. W. of cor. Pits impracticable. Over broken stony land.
61.00	Enter scattering aspen and pine timber bears N.E. and S.W.
96.65	The cor. of secs. 3, 4, 9 and 10. 1000 ft. above closing cor. of secs. 3 and 4. Land mountainous. Soil stony 3rd and 4th Rate. Timber aspen and pine. Mountainous land. 96.65 Chs. Sept. 5, 1900.

Sept. 6. At 8 A.M. l.m.t. we set off 38° 20' N on the lat. arc. 6° 29' W on the decl. arc and determine a true meridian on the S. bdy. of the

Chains	
	township, at the cor. of secs. 32 and 33. heretofore described. Thence we run N. 0° 3' W. bet secs. 32 and 33. Descend through heavy aspen and pine timber.
7.90	Middle fork of 10 mile Creek. 3 lks. wide, pure water. 4 ins. deep. and Canon 200 ft. deep course N. E. ascend.
40.00	Set a trachytestone 24 x 12 x 12 ins. 18 ins. in the ground for ¼ sec. cor. marked ¼ S. 32 on W. and 33 on E. faces: from which A pine, 10 ins. diam. bears N. 20° E. 6 lks. dist. marked ¼ S. 33. B. T. A spruce, 18 ins. diam, bears S. 80° W. 14 lks. dist. marked ¼ S. 32. B. T.
80.00	Set a trachytestone 20 x 15 x 6 ins. 15 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 pine, 8 ins. diam. bears N. 10° E. 10 lks. dist. marked T. 28 S. R. 4 W. S. 28. B. T. A pine, 9 ins. diam. bears S. 25 E. 22 lks. dist. marked T. 28 S, R. 4 W., S. 33. B. T. A spruce, 12 ins. diam, bears S. 40 W. 18 lks. dist. marked T. 28 S, R. 4 W. S. 32. B. T. A aspen, 4 ins. diam. bears N. 50 W. 13 lks. dist. marked T. 28 S, R. 4 W, S. 29. B. T. Land rolling Soil, stony 3rd Rate. Timber pine. aspen and spruce Heavily timbered. 80.00 chs.
	E. on a random line,

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

Chains	
	N. 0° 3' W. bet. secs. 28 and 29. Over rolling land, ascend through heavy pine and aspen timber.
22.00	Top of mountain ridge, bears N.E. and S.W. descend.
40.00	Set a trachyte stone 12 x 11 x 5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 29. on W. and 28. on E. faces: from which A aspen, 5 ins. diam. bears N. 45° E. 10 lks. dist. marked ¼ S. 28. B. T. A aspen, 5 ins. diam. bears S. 45 W. 14 lks. dist. marked ¼ S. 29. B. T. Ascend.
60.00	Top of ridge, bears N.E. and S.W. Some aspen timber bears N.E. and S.W.
72.00	South fork of Cottonwood Creek. 4 lks. wide, pure water, 6 ins. deep, and Canon 200 ft. deep, Course N.E. enter aspen timber ascend.
73.75	Gravel road. bears N.E. and S.W.
80.00	Set a trachyte stone 12 x 12 x 6 ins. 8 ins. in the ground, for Cor. of secs. 20, 21, 28 and 29. marked with 2 notches on S. and 4 notches on E. edges: from which A aspen 6 ins. diam, bears N. 9 lks. dist. marked T. 28 S. R. 4 W. S. 20. S. 21. B. T. A aspen, 10 ins. diam. bears S. 53 E. 55 lks. dist. marked T. 28 S. R. 4 W. S. 28. B. T. A aspen, 10 ins. diam. bears S. 41 15' W. 27 lks. dist. marked T. 28 S. R. 4 W. S. 29. B. T. Land mountainous. Soil, Stony. 3rd Rate Timber, pine and aspen. Mountainous land and heavily timbered. 80.00 chs.

Chains	
	S. 89° 57' E. on a random line.
	bet. Secs. 21 and 28.
40.00	Set stone ¼ Sec. Cor.
80.00	Intersect W. and S. line, 10 lks.
	N. of Cor. of Secs. 21, 22, 27 and 28.
	Thence run
	N. 89° 53' W. on a true line.
	bet. Secs. 21 and 28.
	Ascend through heavy aspen
	and pine timber.
2.25	Road to Crystal Mine
	bears N. and S.
22.50	South slope of Knoll. descend.
31.15	Ravine, 500 ft. deep course N.
	ascend
40.00	Set a Hachytestone 12 x 9 x 5 ins. 8 ins. in
	the ground, for ¼ Sec. Cor. marked
	¼ S. 21 on N. and 28 on S. faces:
	from which
	A aspen, 3 ins. diam, bears N. 10 E. 21
	lks. dist. marked ¼ S. 21, B. T.
	A aspen, 3 ins. diam, bears S. 50° E. 28 lks.
	dist. marked ¼ S. 28, B. T.
56.00	Top of Spur, projects N. E. descend.
69.70	South fork of Cottonwood Creek,
	4 lks. wide, pure water, 6 ins.
	deep, and Canon. 800 ft. deep
	Course N. E. ascend
72.45	Wood road, bears N. E. and S. W.
80.00	The Cor. of Secs. 20, 21, 28 and 29.
	Land mountainous 3rd Rate
	Soil, Stony
	Timber, Aspen and pine,
	Mountainous land and
	heavily timbered 80 chs.
	Sept. 6, 1900.

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

Chains	
	Sept. 7: At 8 A.M. l.m.t. we set off 38°22' N on the lat. arc: 6°07' N. on decl. arc: and determine a true meridian with the solar at the cor. of secs. 20, 21, 28 and 29. Thence we run N. 0° 3' W. bet. secs. 20 and 21. Ascend through heavy aspen and pine timber.
6.00	Top of spur, projects E. descend
20.95	Spring branch 1 lk. wide, 2 ins. deep, Course N. E.
40.00	Set a porphyry stone 16 x 11 x 8 ins. 11 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 20. on W. and 21 on E. faces: from which, a Pine, 10 ins. diam. bears N. 81° E. 15 lks. dist. marked ¼ S. 21. B. T. A aspen, 6 ins. diam. bears S. 59° W. 17 lks. dist. marked ¼ S. 20. B. T.
41.25	Begin steep descent.
43.00	Middle fork of Cottonwood Creek, 5 lks. wide, pure water, 8 ins. deep, and Canon, 800 ft. deep course S. 35° E. Ascend.
44.70	Top of quartzite ledges, 80 ft. high bear N. W. and S. E. Leave timber, enter dense oak brush and mahogany, bears N. W. and S. E.
60.00	Enter heavy aspen timber bears E and W.
80.00	Set a quartzite stone 20 x 8 x 6 ins. 15 ins. in the ground, for Cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edges: from which A aspen, 10 ins. diam., bears N. 35° E. 18 lks. dist. marked T. 28 S. R. 4 W. S. 16. B. T. A aspen, 6 ins. diam. bears S. 68° 30' E. 29 lks. dist. marked T. 28 S. R. 4 W. S. 21. B. T.

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

Chains	
	A aspen, 7 ins. diam. bears S. 16° E.
	W. 11 lks. dist. marked
	T. 28 S. R. 4 W. S. 20, B. T.
	A aspen, 3 ins. diam. bears N. 51° E.
	W. 13 lks. dist. marked
	T. 28 S. R. 4 W. S. 17, B. T.
	Land mountainous
	Soil, stony 3rd Rate
	Timber, aspen and pine.
	Mountainous land and
	heavily timbered. 80.00 chs.
	S. 89° 53' E. on a random line
	bet. secs. 16 and 21.
40.00	Set stone ¼ sec. cor.
80.04	Intersect N. and S. line, 7 lks.
	N. of cor. of 15, 16, 22 and 21.
	Thence run
	N. 89° 50' W. on a true line
	bet. secs. 16 and 21.
	Run stony soil, ascend
	through heavy cedar, pinion and
	aspen timber.
16.50	Top of ridge, bears N. W. and S. E. descend.
20.00	Leave pine bears N. W. and S. E. ascend.
26.00	Top of spur, projects S. E. descend
40.02	Set a quartzite stone, 12 x 8 x 6 ins.
	8 ins. in the ground, for ¼ sec.
	Cor. marked ¼ S. 16 on N. and
	21 on S. faces: from which
	A aspen, 4 ins. diam, bears N. 15 E.
	12 lks. dist. marked ¼ S. 16, B. T.
	A aspen, 3 ins. diam. bears S. 15 E. 12 lks.
	dist. marked ¼ S. 21, B. T. Ascend
57.30	Top of ridge, bears N. and S.
	Descend through heavy Aspen
	pine and cedar timber.
80.04	Tie cor. of secs. 16, 17, 20 and 21.

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

Chains	
	Land rolling
	Soil, stony 3rd Rate
	Timber, cedar, pinion and aspen.
	Heavily timbered and
	Mountainous land. 80.04 chs.
	Sept. 7. At this cor. we set off 6° 03' N on the decl. arc: and at 11h 58m A. M. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 23' N
	N. 0° 3' W. bet. secs. 16 and 17.
	Ascend, through heavy aspen and scattering pine timber.
40.00	Set a quartzite stone 13 x 10 x 7 ins. 9 ins. in the ground, for ¼ sec. cor, marked ¼ S. 17 on W. and 16. on E. faces: from which
	A aspen, 8 ins. diam. bears S. 75° E. 25 lks. dist. marked ¼ S. 16. B. T.
	A aspen, 8 ins. diam; bears N. 60° W. 6 lks. dist, marked ¼ S. 17, B. T.
50.00	Top of mountain ridge, 1000 ft. above cor. of secs. 16, 17, 20 and 21. bears E and W. leave aspen timber, descend through dense mahogany and scattering pine.
68.00	Ravine, 300 ft. deep course E.
80.00	Set a trachyte stone 15 x 11 x 8 ins. 10 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges: from which
	A pine, 8 ins. diam. bears N. 74° 30' E. 57 lks, dist. marked T. 28 S. R. 4 W. S. 9, B. T.

Chains	
	A pine, 12 ins. diam. bears S 72° 30' E. 87 lks. dist. L. marked T. 28 S. R. 4 W. S. 16, B. T. No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land mountainous Soil, Stony 3rd Rate Timber, Aspen and pine Mountainous land. 80.00 chs.
	S. 89° 50' E. on a random line bet. Secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect W. and S. line, 23 lks. S. of cor. of Secs. 9, 10, 15 and 16. Thence run W. on a true line bet. Secs. 9 and 16. Descend through scattering mahogany, oak brush and pine timber.
14.50	Ravine, 100 ft. deep, course S. ascend.
20.00	Top of Spur, projects S. descend.
24.00	Ravine, 150 ft. deep, course S. Ascend.
40.00	Set a trachytestone 12 x 8 x 6 ins. 8 ins. in the ground, for ¼ Sec. cor. marked ¼ S. 9 on W. and 16 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
42.00	North fork of Cottonwood Creek, 2 lks. wide, pure water, 4 ins. deep, Wood. Canon, 450 ft. deep, Course

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

Chains	
	S. 80° E. ascend.
55.00	Top of spur, projects S. E. descend.
75.00	Bottom of ravine, 250 ft. deep, course S. E. ascend.
80.00	The Cor. of secs. 8, 9, 16 and 17.
	Land mountainous
	Soil, stony 3rd Rate
	Timber pine.
	Mountainous land, 80.00 chs.
	Sept. 7, 1900
	Sept. 8: At 8 A. M. l. m. t. we set off 38° 23' N on the lat. arc: 5° 45' N. on decl. arc: and determine a true meridian with the solar, at the Cor. of secs. 8, 9, 16 and 17.
	Thence we run
	N. 0° 3' W. bet. secs. 8 and 9.
	Over rolling land, ascend through dense oak brush and mahogany and scattering pine timber.
6.50	Bottom of ravine, 100 ft. deep, course S. E.
27.20	Top of Mountain ridge, bears E. and W. descend.
40.00	Set a trachyte stone 18 x 15 x 12 ins, 12 ins. in the ground, for ¼ sec. Cor, marked ¼ S. 8. on W. and 9. on E. faces: from which.
	A pine, 3 ft. diam. bears N. 13 lks. dist. marked ¼ S. 8. S. 9. B. T.
64.00	Miners Cabin 16 x 16 ft.
	W. 1.75 chs. dist.
66.00	Head of ravine, course N. E.
71.50	Top of ridge, bears E. and W.
	Descend through heavy pine

Chains	
	timber
80.00	Set a trachyte stone 18 x 12 x 3 ins. 12 ins. in the ground, for cor. of secs. 4, 5, 8 and 9 marked with 5 notches on the S. and 4 notches on E. edges: from which A pine, 16 ins. diam. bears N. 38° E. 7 lks. dist. marked T. 28 S. R. 4 W. S. 4, B. T. A pine, 18 ins. diam. bears S. 130° E. 13 lks. dist. marked T. 28 S. R. 4 W. S. 9. B. T. A pine, 24 ins. diam. bears S. 72° W. 51 lks. dist. marked T. 28 S. R. 4 W. S. 8. B. T. A pine, 18 ins. diam. bears N. 54° W. 18 lks. dist. marked T. 28 S. R. 4 W. S. 5. B. T.
	Land Mountainous
	Soil stony, 3rd Rate
	Timber, pine.
	Mountainous land, heavily timbered or dense undergrowth 80.00 chs.
	E. on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line, 5 lks N. of cor. of secs. 3, 4, 9 and 10
	Thence run N. 89° 58' W. on a true line bet. secs. 4 and 9.
	Descend through dense pine.
16.50	Bottom of ravine, 300 ft. deep, Course N. E. ascend.
28.20	Top of trachyte ledges 60 ft. high bear N. W. and S. E.
29.20	Top of ridge projects. N. descend. Land heavy pine bears N. and S. enter scattering timber and

Chains	
	dense oak and mahogany brush.
40.04	Set a trachyte stone 12x10x5 ins. 7 ins. in the ground, for ¼ sec. cor. marked ¼ S. 4 on N. and 9 on S. faces: from which A pine, 5 ins. diam. bears N. 45 W. 12 lks. dist. marked ¼ S. 4. B.T. A pine, 7 ins. diam. bears S. 45 W. 25 lks. dist. marked ¼ S. 9. B. T.
51.00	Ravine, 150 ft. deep, course N. E. Ascend.
67.00	Top of ridge, bears N. E. and S. W. Descend through heavy pine timber.
80.08	The cor. of secs. 4, 5, 8 and 9. Land mountainous Soil stony 3rd Rate Timber pine. Dense undergrowth. heavily timbered and mountainous land. 80.08 chs.
	Sept. 8: At this cor. we set off 5° 40' E on the decl. arc: and at 11 58 A. M. c. m. t. observe the sun on the meridian, the resulting lat. is 38° 24' N
	N. 0° 3' W. on a random line bet. secs. 4 and 5.
40.00	Set temp. ¼ sec. cor.
97.80	Intersect N. bdy. of the township S. 89° 18' E. 9.57 chs. from cor. of secs. 32 and 33 which is a pink rhyolite 16x14x12 marked and witnessed as described by Surveyor General.

Chains	
	This corresponds to Retracement.
	Set a trachyte stone 18 x 12 x 5 ins.
	12 ins. in the ground, for
	Closing cor. of Secs. 4 and 5.
	marked with C. C. on S. face
	with 4 grooves on E. and 2
	grooves on W. faces:
	And raise a mound of stone
	2 ft. base 1½ ft. high. S. of cor.
	Pits impracticable
	Thence run
	S. 0° 3' E. on a true line
	bet. Secs. 4 and 5.
	Over rolling land, ascend
	through dense oak brush,
	mahogany and scattering pine
	and aspen timber.
57.80	Set a trachyte stone 18 x 10 x 3 ins.
	12 ins. in the ground, for ¼ Sec.
	Cor. marked ¼ S. 5 on W. and
	4 on E. faces: from which
	A aspen 6 ins. diam. bears S. 80 E.
	15 lks. dist. marked ¼ S. 4. B. T.
	A pine, 12 ins. diam. bears S. 35° W. 10
	lks. dist. marked ¼ S. 5, B. T.
73.90	Spring branch, 1 lk. wide, 1 in. deep, Course N. W.
	Enter heavy pine and aspen
	timber bears N. E. and S. W.
83.30	Miners Cabin 16 x 16 ft.
	E. 3.75 chs.
97.80	The cor. of Secs. 4. 5. 8 and 9.
	1500 ft. above Closing Cor. of
	Secs. 4 and 5.
	Land mountainous
	Soil stony
	Timber aspen and pine
	Mountainous Land. 97.80 chs.

Sept. 8. 1900

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

Chains	
	Sept. 9: At 8 A.M. l. m. t. we set off 38° 20' N on the lat. arc: 5° 22' N. on the decl. arc: and determine a true meridian with the solar on the S. bdy. of the township, at the cor. of secs. 31 and 32 heretofore described. Thence we run N. 0° 3' W. bet. secs. 31 and 32. Descend through heavy aspen and pine timber.
4.50	Spring branch 1 lk. wide, 2 ins. deep Course N. W.
12.00	Spring branch 2 lks. wide, 3 ins. deep. Course, S. 80° W. ascend
34.00	Top of spur, projects E. descend
40.00	Set a trachyte stone 24 x 20 x 10 ins. 18 ins. in the ground, for ¼ sec. cor. marked with ¼ S. 31, on W. and 32 on E. faces: from which A aspen, 5 ins. diam. bears S. 10° E. 4 lks. dist. marked ¼ S. 32. B. T. A aspen, 6 ins. diam. bears N. 10° W. 6 lks. dist. marked ¼ S. 31. B. T.
43.00	Bottom of ravine. 300 ft. deep. Begin steep ascent.
66.30	Top of mountain ridge, bears S.E. and N. W. divide of Tushar Mts. 1000 ft. above cor. of secs. 31 and 32. Begin steep descent.
80.00	Set a trachyte stone 18 x 10 x 10 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 bears A pine, 6 ins. diam. N. 20 E. 11 lks. dist. marked T. 28 S. R. 4 W. S. 29. B. T. A pine, 8 ins. diam. S. 40 E. 14 lks. dist. marked T. 28 S. R. 4 W. S. 32. B. T.

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

Chains	
	A aspen, 4 ins. diam. S. 45 W. 8 lks. dist. marked T. 28 S. R. 4 W. S. 31. B. T.
	A pine, 5 ins. diam. N. 20 W. 32 lks. dist. marked T. 28 S. R. 4 W. S. 30. B. T.
	Land mountainous.
	Soil stony 3rd Rate
	Timber, aspen and pine
	Heavily timbered and mountainous land. 80.00 chs.
	E. on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at Cor. of secs. 28, 29, 32 and 33.
	Thence we run
	N. on a true line bet. secs. 29 and 32.
	Over rolling land, ascend the east slope of devide of the Tushar mountains, through heavy aspen and pine timber.
40.00	Set a trachyte stone 16 x 10 x 5 ins. 11 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 29 on N. and 32 on S. faces:
	from which bears
	A pine, 8 ins. diam. N. 6 lks. dist. marked ¼ S. 29. B. T.
	A pine, 6 ins. diam. S. 10 E. 15 lks. dist. marked ¼ S. 32. B. T.
80.00	The cor. of secs. 29, 30, 31 and 32.
	1000 ft. above cor. of secs. 28, 29, 32 and 33.
	Land mountainous.
	Soil stony 3rd Rate
	Timber aspen and pine,
	Mountainous land. 80.00 chs.

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

Chains	
	Sept. 9. At this cor. we set off 5° 17' N. on the decl. arc: and at 11h 57m A. M. l. m. t. observe the sun on the meridian the resulting lat. is 38° 21' N.
	W. on a random line bet. secs. 30 and 31.
40.00	Set temp. ¼ sec. cors.
74.00	Intersect W. bdy. of the township at cor. of secs. 25, 30, 31 and 36 heretofore described. Thence we run E. on a true line bet. secs. 30 and 31. Over rolling land, ascend the west slope of devide of Tushar mountains, through scattering aspen and pine timber.
34.00	Set a trachyte stone 16 x 10 x 5 ins. 11 ins. in the ground, for ¼ sec. cor. marked ¼ S. 30. on N. and 31 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
37.80	South slope of Knoll on top of devide of Tushar mountains: 10,500 ft. above sea level, bears N. and S.E. descend Enter heavy aspen and pine timber, bears N. and S.
74.00	The cor. of secs. 29, 30, 31 and 32. 500 ft. below top of devide. Land mountainous Soil, stony. 3rd and 4th Rate Timber, aspen and pine Mountainous land, 74.00 chs.

Subdivision of 7.28 S. R. 4 W. Contin

Chains	
	N. 0° 3' W. bet. secs. 29 and 30.
	Over broken land, descend along east slope of divide of Tushar mountains, through heavy pine and aspen timber.
40.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 30. on W. and 29 on E. faces: from which bears
	A pine, 5 ins. diam. E. 24 lks. dist. marked ¼ S. 29. B. 7.
	A pine, 7 ins. diam. N. 25 W. 11 lks. dist. marked, ¼ S. 30, B. 7.
52.00	South fork of Cottonwood Creek. 2 lks. wide, pure water, 4 ins. deep, and canon 500 ft. deep, course E. begin ascent.
	Leave timber, bears E and W.
	Over stony soil.
80.00	Set a trachyte stone 18 x 10 x 8 ins. 12 ins. in the ground, for cor. of secs. 19, 20, 29 and 30.
	marked with 2 notches on S. and 5 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable
	Land mountainous
	Soil stony. 3rd and 4th Rate
	Timber, aspen and pine
	Mountainous land 80.00 chs.
	Sept. 9. 1900
	Sept. 10: At 8 A. M. l. m. t we set off 38° 22' N on lat. arc 5° 00' W on decl. arc: and determine a true meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

Chains	
	Thence run
	E. on a random line
	bet. secs. 20 and 29
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at
	Cor. of secs. 20, 21, 28 and 29.
	Thence run
	W. on a true line
	bet. secs. 20 and 29.
	Ascend, through heavy aspen
	timber along the South
	Slope of mountain Spur
	projecting E.
12.00	Leave timber, bears N.E. and S. W.
	Over stony soil.
40.00	Set a trachyte stone 6 x 10 x 6 ins., 11 ins.
	in the ground, for ¼ sec. cor.
	marked ¼ S. 20, on N. and 29
	on S. faces: and raise a
	mound of stone, 2 ft. base,
	1½ ft. high, N. of cor.
80.00	The cor. of secs. 19, 20, 29 and 30.
	1500 ft. above cor. of secs.
	20, 21, 28 and 29.
	Land mountainous
	Soil stony, 4th Rate
	Timber aspen
	Mountainous Land. 80.00 chs.
	W. on a random line
	bet. secs. 19 and 30.
40.00	Set temp. ¼ sec. cor.
73.90	Intersect W. bdy. of township
	at cor. of secs. 19, 24, 25 and 30
	Initial point described. Thence run
	S. on a true line
	bet. secs. 19 and 30.
	Ascend over stony, rolling

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

Chains	Lands.
30.50	Top of Deland peak or Mount Holly, 12,240 ft. above sea level. on divide of Tushar Mountains bears N. and S.
	Begin descent.
31.53	Point for ¼ sec. cor. falls on slide rock, therefor at this point we set a trachyte stone 18 x 14 x 14 ins. 12 ins. in the ground for witness Cor. to ¼ sec. cor. marked W. C. ¼ S. 19 on N. and 30 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable. Over broken ledges and slide rock.
33.90	Point for ¼ sec. cor. falls on slide rock. Cor. cannot be set.
50.00	Begin ascent.
63.50	Top of mountain ridge, bears N.E. and S. W.
73.90	The cor. of secs. 19, 20, 29 and 30. 1000 ft. below top of Mount Holly.
	Land mountainous
	Soil, stony 4th Rate
	No timber
	Mountainous land. 73.90 Chs.
	N. 0° 3' W. bet. secs. 19 and 20.
	Ascend over stony soil.
8.00	Top of mountain ridge, bears N.E. and S. W. descend.
20.00	Enter heavy aspen and pine timber, bears N. E. and S. W.
40.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 19 on W. and 20 on E. faces; from which bear

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

Chains	
	A aspen, 4 ins. diam, E. 7 lks. dist. marked ¼ S. 20; B. T.
	A aspen, 3 ins. diam, S. 60° W. 12 lks. dist. marked ¼ S. 19; B. T.
52.25	Spring branch 1 lk. wide, 2 ins deep, Course E. Begin ascent over broken land.
80.00	Set a trachyte stone 16 x 9 x 5 ins. 11 ins. in the ground, for cor. of secs. 17 18 19 and 20. Marked with 3 notches on the S. and 5 notches on the E. edges, raise a mound of stone 2 ft. base, 1½ ft. high. W. of cor. Pits impracticable. From cor. bear
	A pine, 8 ins. diam, N. 12 lks. dist. marked T. 28 S, R. 4 W. S. 17, S. 18, B. T.
	A pine, 6 ins. diam, S. 40 E. 18 lks dist. marked T. 28 S, R. 4 W, S. 20, B. T.
	A pine, 10 ins. diam, S. 25 W. 8 lks. dist. marked T. 28 S, R. 4 W, S. 19, B. T.
	Land mountainous.
	Soil stony 3rd and 4th Rate
	Timber aspen and pine
	Mountainous land and heavily timbered, 80.00 chs.
	Note.— At 11.30 A. M. heavy rain prevents further work this day. Sept. 10. 1900.
	Sept. 11: At 8 A.M. l. m. t. we set off 38° 23' N on the lat arc: 4 36 N. on the decl. arc: and determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20 Thence we run E. 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 cor. of secs. 16, 17, 20 and 21. Thence we run N. 89° 58' W. on a true line

Subdivision of T. 2 S. R. 4 W. Continued

Chains	
	Set. secs. 17 and 20.
	Descend through heavy Aspen and
	pine timber.
4.00	Bottom of draw, 50 ft. deep Course
	S. ascend
20.00	Top of ridge bears N. and S.
	Some pine timber descend through
	heavy aspen.
29.00	Middle fork of Cottonwood Creek.
	4 lks. wide, pure water, 4 ins. deep,
	and canon, 200 ft. deep Course
	S. E. ascend through Cedar
	and dense pine timber.
40.00	Set a trachyte stone 14 x 8 x 6 ins. 10
	ins. in the ground, for ¼ Sec.
	Cor, marked, ¼ S. 17 on N. and
	20 on S. faces.
	from which bear
	A pine, 12 ins. diam, N. 30° W. 12 lks.
	dist, marked ¼ S. 17. B. T.
	A pine, 13 ins. diam. S. 75 W. 12 lks.
	dist, marked ¼ S. 20. B. T.
80.00	The cor of secs. 17, 18, 19 and 20.
	1000 ft. above Cottonwood Creek.
	Land mountainous
	Soil stony 3rd Rate.
	Timber Aspen and pine
	Mountainous land and
	heavily timbered. 80.00 lks.

	W. on a random line
	Set. secs. 18 and 19.
4.00	Set temp. ¼ sec. cor.
73.99	Intersect W. bdy. of Township
	at cor. of secs 13, 18, 19 & 24. heretofore described
	Thence run
	E. on a true line
	Set. secs. 17 and 19.

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

Chains	
	Descend; through heavy aspen and pine timber.
2.60	Bottom of Canon. 600 ft. deep. Course N.
	Begin steep ascent
22.00	Leave timber, bears N. and S.
32.00	Top of mountain ridge bears N. 10° E. and S. 10° W.
33.93	Set a trachyte stone 6 x 10 x 6 ins. 11 ins. in the ground, for ¼ sec. marked ¼ S. 18 on N. and 19 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
65.00	Begin descent — Enter heavy pine timber bears N. and S.
73.93	The cor. of secs. 17, 15, 19 and 20. Land mountainous. Soil stony 4th Rate. Timber aspen and pine. Mountainous land, 73.93 chs.
	Sept. 11. At this cor. we set off 4° 32' E. on the decl. arc: and at 11 57 A. M., L. M. T. observe the sun on the meridian; the resulting lat. is 38° 23' N
	N. 0° 3' W. bet. secs. 17 and 15. Ascend through heavy pine and spruce timber.
20.00	Top of spur, bears E. descend. Leave heavy timber bears E. and W. enter scattering pine.
39.90	Spring branch, 1 lk wide 2 ins. deep,

Chains	
	Course E. ascend
40.00	Set a trachyte stone 16 x 10 x 4 ins. 11 ins. in the ground for ¼ sec. Cor. marked ¼ S. 18 on W. and 17 on E. faces: from which A pine, 36 ins. diam. bears S. 15° E. 85 lks. dist. marked ¼ S. 17. B. T. No other tree within limits and raise a mound of stone 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable.
45.60	Bottom of ravine. Course S. E. clear timber entire dense oak and mahogany. Begin ascent.
70.00	Top of spur, projects S. E.
80.00	Saddle on top of high mountain ridge. 900 ft above ¼ sec. cor. bet. secs. 17 and 18. Set a granite stone 18 x 18 x 6 ins. 12 ins. in the ground. for cor. of secs. 7, 8, 17 and 18. marked with 4 notches on S. and 5 notches on E. edges: from which bears A pine, 15 ins. diam. S. 35° W. 30 lks. dist. marked T. 28 S, R. 4 W. S. 18. B. T. No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable Land Mountainous
	Soil. Stony 3rd and 4th Rate.
	Timber Pine and Spruce
	Mountainous Land. 80 chs.
	E. 89.58 E. on a random line bet. secs. 8 and 17

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

Chains	
40.00	Set temp; ¼ sec. cor.
80.00	Intersect N. and S. line 5 lks. S. of cor. of secs. 8, 9, 16 and 17. Thence we run W. on a true line bet. secs. 8 and 17. Over stony soil, begin steep ascent, through dense scrub oak and gooseberry bushes.
20.25	Over quartzite boulders.
25.55	Top of mountain ridge, bears N. and S. 300 ft. above cor. of secs. 8, 9, 16 and 17. Descend over disintegrated granite rock.
40.00	Set a trachyte stone 12 x 10 x 6 ins 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 8, on N. and 17, on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
42.50	Spring branch, 1 lk. wide, 2 ins. deep. Course S.W., ascend along the south slope of a high mountain ridge, bearing E. and W., through scattering pine timber.
80.00	On top of saddle in mountain ridge bears N.E. and S.W. The cor. of secs. 7, 8, 17 and 18. Land mountainous. Soil stony. 3rd and 4th Rate Timber, pine, Mountainous land, 80.00 Chs.

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

Chains	
	N. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
73.82	Intersect N. bdy. of township, at cor. of secs. 7, 12, 13 and 18 heretofore described. Thence run E. on a true line bet. secs. 7 and 18. Run stony soil, begin steep descent through heavy aspen and pine timber.
20.60	Bottom of Cañon, 1000 ft. wide, Course N. Begin steep ascent.
27.50	Leave timber bears N. and S. over boulders, slide rock and ledges.
33.82	Point for ¼ sec. cor. subject to slides.
39.40	Set a stone 24 x 5 x 5 ins. 18 ins. in the ground, for witness Cor. to ¼ sec. cor. marked W. C. ¼ S. 7 on N. and 18 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable,
40.10	Top of rocky spur, projects N. 20° W. run steep south west slope of mountain ridge, run granite slide rock and boulders, thence scattering second growth pine.
73.82	Cor. saddle of mountain ridge, bears N. E. and S. W. Pine cor. of secs. 7, 8, 12 and 18. Land mountainous Soil stony, ¼th Rate Timber Pine and Aspen, Mountainous land, 73.82 chs.

Sept. 11, 1900

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

Chains	
	Sept. 12: at 8 A. M. l. m. t. we set off 38° 23' N on lat. arc: 4° 14' N. on decl. arc: and determine a true meridian with the solar, at the cor. of secs. 7, 8, 17 and 18. Thence we run N. 0° 3' W. bet. secs. 7 and 8. Over rolling stony land, descend along the west slope of mountain ridge through scattering pine timber.
35.00	Spring branch 1 lk. wide, 2 ins. deep. in ravine 600 ft. below the cor. of secs. 7, 8, 17 and 18. Course N. W. Ascend.
40.00	Set a trachyte stone 14 x 14 x 5 ins. 10 ins. in the ground, for ¼ sec. cor, marked ¼ S. 7, on W, and 8 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
66.60	Top of mountain spur, projects N. W. descend.
80.00	Set a trachyte stone 14 x 8 x 6 ins. 10 ins. in the ground, for Cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges: from which bears A pine, 12 ins. diam. S. 15 W. 68 lks. dist. marked T. 28 S. R. 4 W. S. 7, B. T. No other tree within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. This cor. is 1000 ft. below cor.

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

Chains	
	of secs. 7, 8, 17 and 18.
	Land mountainous.
	Soil: stony. 4th Rate.
	Timber pine.
	Mountainous land, 80.00 Chs.
	E. on a random line
	bet. secs. 5 and 8.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line
	At Cor. of secs. 4, 5, 8 and 9.
	Thence we run
	N. on a true line,
	bet. secs. 5 and 8.
	Over rolling land, ascend through
	dense gooseberry bushes and
	scattering pine timber.
18.00	Top of spur, projects N. descend.
25.00	Dalton Mine incline, S. 5 chs. dist.
30.00	Dalton Mine boarding house,
	18 x 40 ft. bears N. 3.25 chs. dist.
36.00	Bottom of ravine, 200 ft. deep, and
	Spring branch, 1 lk. wide, 2 ins. deep, Course N. ascend.
40.00	Set a trachyte stone 18 x 15 x 3 ins.
	12 ins. in the ground, for
	¼ sec. cor. marked ¼ S. 5
	on N. and 8 on S. faces.
	And raise a mound of
	stone, 2 ft. base, 1½ ft. high,
	N. of cor.
	Pits impracticable.
43.00	Top of ridge, bears N. and S.
	descend.
50.20	Bottom of ravine, 200 ft.
	deep, Course N.
	Ascend.
66.50	Top of ridge, bears S. E. and N. W.
	Descend.

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

Chains		
77.00	Leave 30 ft. deep. course N. W.	
80.00	The cor. of secs. 5, 6, 7 and 8.	here
	Land mountainous	
	Soil stony 3rd and 4th Rate	
	Timber pine.	
	Mountainous land. 80.00 chs.	

W. on a random line
bet. secs. 6 and 7.
40.00 Set temp. ¼ sec. cor.
73.73 Intersect W. bdy. of township.
at cor. of secs. 1, 6, 7 and 12. [illegible]
Thence we run
E. on a true line
bet. secs. 6 and 7.
Ascend through heavy pine timber.
8.40 Top of high rocky spur, projecting N.E. descend over trachyte ledges, bearing N. and S.
18.00 Foot of ledges, 400 ft. high
Enter heavy aspen timber.
23.50 S. fork of Pine Creek, 8 lks. wide, pure water, 8 ins. deep. in South fork of Bullion Canon 1000 ft. deep, course N. 10° E. ascend.
27.00 Leave heavy timber, ascend over steep stony soil through scattering pine.
33.73 Point for ¼ sec. cor. subject to slides, therefore at
44.18 Top of steep ascent
Mark a trachyte boulder 4x4x3 ft. above ground, for witness cor. to ¼ sec. cor. with a cross (X) on exact point, and W. C. ¼ S. 6 on N. and 7 on S. sides:

Chains	
	from which bears R. pine, 30 ins. diam. N. 40° E. 20 lks. dist. marked W. C. ¼ S. 6. B. T. No other trees within limits And raise a mound of stone 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
60.40	Bottom of drain. course N.
73.73	The cor. of secs. 5, 6, 7 and 8. 1000 ft. above the bottom of S. fork of Bullion Canon. Land Mountainous. Soil, Stony 3rd and 4th Rate Timber aspen and pine Mountainous land 73.73 chs.
	Sept. 12. At this cor. we set off 4° 09' E. on decl. arc; and at 11h 56m A. M. L. M. T. observe the sun on the meridian, the resulting lat. is 38° 24' N
	N. 0° 3' W. on a random line bet. secs. 5 and 6.
40.00	Set temp. ¼ sec. cor.
97.50	Intersect N. bdy. of township N. 89° 47' E. 10.85 chs. dist. to the cor. of secs. 31 and 32, which is a porphyry stone 15 x 14 x 10 ins, firmly set, as described by Surveyor General.
	This corresponds to the retracement
	Set a trachyte stone 16 x 10 x 6 ins. 11 ins in the ground, for closing cor. of secs. 5 and 6. marked C. C. on S. face; with 5 grooves

Chains	
	on the E. and 1 groove on W. faces: and raise a mound of stone 2 ft. base, 1½ ft. high. S. of cor. Pits impracticable. Thence run S. 0° 30' E. on a true line bet. secs. 5th and 6. Descend through dense oak and mahogany brush.
5.00	Bottom of ravine, 100 ft. deep. Course S. E. ascend.
23.00	Top of spur, projects E. Begin descent through heavy aspen and pine timber. on broken land.
28.00	Pine Creek, 15 lks. wide, pure water, 12 ins. deep, in Bullion Canon, 2000 ft. deep. Course E. Begin steep ascent over stony soil, broken land and projecting spurs.
57.50	Set a trachyte stone 15 x 10 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 6. on W. and 5 on E. faces: from which bears A pine, 6 ins. diam. E. 10 lks. dist. marked ¼ S. 5. B. T. A pine, 5 ins. diam. W. 12 lks. dist. marked ¼ S. 6. B. T.
92.00	Leave heavy timber bears N. E. and S. W. enter oak, mahogany and scattering timber.
93.00	Down, 40 ft. deep, course N. W.
97.50	The cor. of secs. 5, 6, 7 and 8. Land mountainous. Soil stony. 3rd and 4th Rate.

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

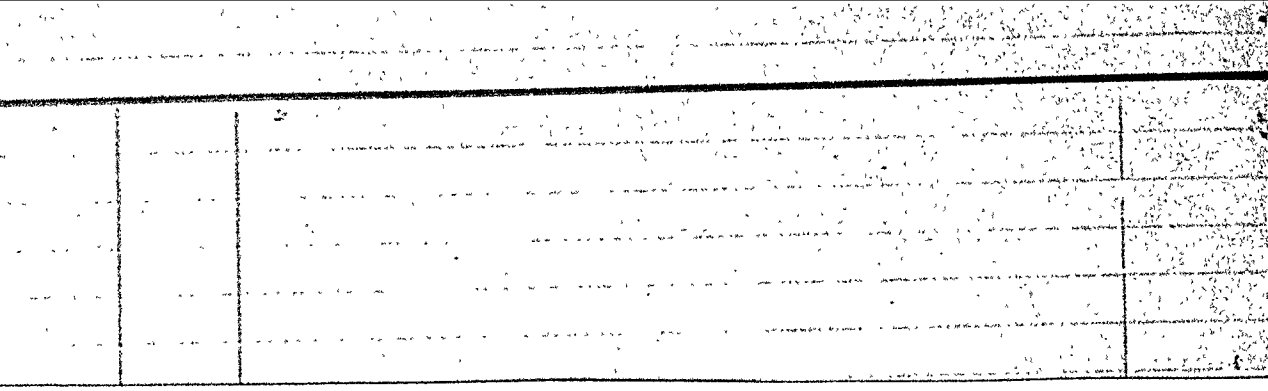
Timber aspen and pine.
Mountainous land 97.50 chs.
Sept. 12. 1900

General Description
This township is entirely mountainous and the soil is stony throughout.
It is situated on the eastern slope of the Tushar mountains, extending from the divide in the western portion to the plain of the Sevier valley in the E. C. portion.
The altitude ranging from about 6000 to 12,240 ft.
In places it is heavily timbered with pine Spruce aspen and cedar timber.
The divide and main mountain ridge running E. and W. are above timber line.
It is covered in places with a dense growth of nutritious grasses and undergrowth making it an excellent range.
The township is well watered by the Pine, Cottonwood and Ten Mile Creeks and by numerous Springs.
The water in these streams is used for irrigating the Sevier valley, east of this township.
Gold and Silver ore is found in Secs. 4, 5, 7, 8, 11, 14, 22, 21, 23 and 27 where numerous claims are located.
The only improvements

General Description of T. 28 S. R. 4 W. Con'd

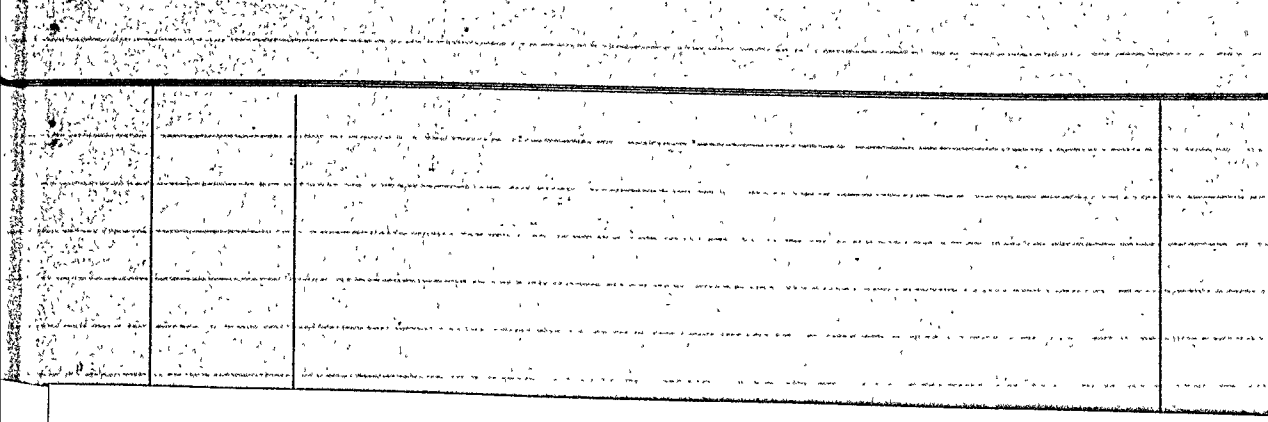
under extensive development are the
Dalton Mine N. E. ¼ sec. 8.
Park Mine S. W. ¼ sec. 23
Crystal Mine N. W. ¼ sec. 27.
We return secs 4, 5, 7, 8, 11, 14, 22, 23, 24 and 27 as mineral land.
There are no permanent settlers in this township.
Mineral Monument No. 1 Ohio Mining District, is situated in sec. 5, In Mt Baldy Mining District Mineral Monument No. 2, is situated in sec. 22, No. 3, in sec. 11 and No. 4 in sec. 24.

Hubert D. Pagler
Harry Erwin.
U.S. Deputy Surveyors



BLANK

PAGE



BLANK

PAGE

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

showing the respective capacities in which they acted:

....., *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.

Original office detail see book E. Sp 265 R42

_____
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 11th, 1903, 189

The foregoing field notes of the survey of The Subdivisions of Township 28 South Range 4 West of the Salt Lake Base & Meridian Utah

executed by Hubert S Page and Harry Erwin under ~~his~~ their contract No. 232, dated November 24, 1899, 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

6—151

BLANK

PAGE

BLANK

PAGE

4—679.

7.

BOOK A-293

FIELD NOTES

H.3.B.

OF THE SURVEY OF THE

South and West boundaries of Township No. 26 South Range No. 4½ West.

Of the Salt Lake Base and Meridian, In the State of Utah.

AS SURVEYED BY

Hubert D Page and Harry Erwin, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 738, dated November 24th, 1899

Survey commenced October 1. 1900, ~~189~~

Survey completed October 3. 1900, ~~189~~

6—151

S. Bdry - Lyg. 5-77-71 ✓

W. " " 5-02-90 ✓

Cos g — 10-05 ✓

NAMES AND DUTIES OF ASSISTANTS.

Willie L. Neal	Chainman
Alfred H. Shorten	"
Orson M. Allred	mound man
Otis S. Allen	axman
Herbert Price	"
Orson Allred	Flag man

6—151

BOOK A-293

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Willie L. Neal and Alfred H. Thorley do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the South 2nd West bdys of T. 26 S., Rs. 4 & 5 W. of the Salt Lake base and meridian, state of Utah.

Willie L. Neal, Chainman.

Alfred H. Thorley, Chainman.

Subscribed and sworn to before me this 16th day of August, 1900

SEAL

Hubert D. Page
U.S. Deputy Surveyor

I, We, Orson M. Allred and ____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the South 2nd W bdy of T. 26 S., Rs. 4 & 5 W. of the Salt Lake base and meridian, state of Utah.

Orson M. Allred, Moundman.

____, Moundman.

Subscribed and sworn to before me this 16th day of August, 1900

SEAL

Hubert D. Page
U.S. Deputy Surveyor

We, Otis S. Allen and Herbert Price do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the South 2nd West bdys. of T. 26 S., Rs. 4 & 5 W. of the Salt Lake base and meridian, state of Utah.

Otis S. Allen, Axman.

Herbert Price, Axman.

Subscribed and sworn to before me this 16th day of August, 1900

SEAL

Hubert D. Page
U.S. Deputy Surveyor

I, Orson Allred, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the South 2nd West bdys of T. 26 S. R. 4 & 5 W. of the Salt Lake base and meridian, state of Utah.

Orson Allred, Flagman.

Subscribed and sworn to before me this 16th day of August, 1900

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

6—151

South bdy. of T. 26 S., R. 4½ W.

Survey Commenced,
October 1st 1900.
and executed with a light mountain transit with solar attachment No — made by W. and L. E. Gurley.
The horizontal limb is provided with two opposite verniers reading to one minute of arc, which is also the least count of the verniers of the latitude and declination arcs.
At the established cor of Tp. 26 S., Rs 4 and 4½ W.
Lat 38°30' N. Long 112°19' W.
Which is a Sandstone 10x12x6 ins. above ground, firmly set and marked as described by the Surveyor General,
In order to test the solar apparatus by comparing results by observation on the sun, made during a.m. and p.m. hours, with a true meridian determined by observation on Polaris,
We proceed as follows:
At 4 p.m. l.m.t., we set off 38°30' N. on lat. arc, 3°15' S. on decl arc, and mark the true meridian thus determined with the solar, by across

South bdy. of T. 26 S., R. 4 1/2 W. continued.

on a stone firmly set in the ground 5 chs. N. of the instrument

October 1st 1900.

October 2nd 1900.

At 0 h 41 m. a.m. l. m. t., we observe Polaris at upper culmination in accordance with instructions in the manual, the true meridian thus determined falls on the cross marked on the stone set by solar observation

October 2nd 1900.

At 8 a.m. l. m. t. we set off 38° 30' N. on lat. arc 3° 31' S on decl. arc; and determine a true meridian with the solar; the line thus determined falls on the cross established by the p. m. solar.

The solar apparatus by p. m. and a. m. observations defines position of true meridians at same point as by Polaris observation. therefore, we conclude the instrument is in adjustment.

The magnetic bearing of the true meridian at 0 h 30 m. a.m. is N. 16° 00' W. the angle thus determined reduced by the table page 100 gives the mean mag. decl. 15° 57' E.

South boundary of T. 26 S. R. 4½ W. Continued

Chains	
	We begin at the established Cor. of T. 26 S. R. 4 and 4½ W previously described. Thence we run West on South bdy. of Tp. and sec. 36. Over stony hill, ascend through scattering cedar.
13.89	The Cor. of secs. 2 and 3. T. 27 S. R. 4 W. which is a Sandstone, 5 x 14 x 5 ins. Above the ground marked as described by the Surveyor General We destroy all marks pertaining to secs. north.
32.00	Begin steep ascent, scarce cedar on to dense mahogany
40.30	Set a quartzite stone, 16 x 10 x 6 ins. 8 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 36. on W. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pile inaccessible.
47.00	Top of ridge, bears N. W. and S. E. descend
53.00	Bottom of ravine, 100 ft. deep, Course S. ascend.
53.89	The ¼ sec. cor. for secs 3. T. 27 S. R. 4 W. which is a quartzite 6 x 12 x 6 ins. above the ground, marked as described by the Surveyor General. We destroy all marks pertaining to the sec. North. Over broken stony land.
80.30	Top of ascent, begin descent. Set a trachyte stone 14 x 12 x 4 ins. 10 ins. in the ground, for cor. of secs. 35 and 36, marked with 1 notch on E. and 5 notches on W. edges.

Chains

from which
A Mahogany, 10 ins. diam. bears N. 80° E. 32 lks. dist. marked T. 26 S., R. 4½ W., S. 36. B. T.
A mahogany, 8 ins. diam. bears N. 18° W. 77 lks. dist. marked T. 26 S., R. 4½ W., S. 35. B. T.
This cor. is 800 ft. above the Cor. of Tp. 26 S., Rs. 4 and 4½ W.
Land mountainous.
Soil stony 3rd and 4th Rate
Timber cedar.
Mountainous land, 80.00 chs.

West along the south bdy. of the Tp. and sec. 35.
Over stony soil, descend through dense mahogany.
13.89 The cor. of secs. 3 and 4, T. 27 S., R. 4 W. which is a quartzite 5 x 16 x 6 ins. above the ground, marked as described by the Surveyor General.
We destroy all marks referring to secs. north.
25.00 Bottom of branch of Deer Creek Cañon, 800 ft. deep, course S. E.
Ascend through dense scrub oak and scattering mahogany.
40.00 Set a trachyte stone 30 x 18 x 10 ins, 22 ins. in the ground, for ¼ sec. cor. marked ¼ S. 35 on N. face: from which
A mahogany 3 ins. diam. bears N. 50 E. 85 lks. dist. marked ¼ S. 35 B. T.
53.89 The ¼ sec. cor. of sec. 4, T. 27 S., R. 4 W. which is a quartzite 4 x 10 x 4 ins.

South boundary of T. 26 S., R. 4½ W. Contin

Chains	
	Below in the ground, marked and witnessed as described by the Surveyor General. We destroy all marks and witnesses reffering to the sec. north.
80.00	Set a trachyte stone 12 × 10 × 7 ins. 8 ins. in the ground, for cor. of secs. 34 and 35, marked with 2 notches on E. and 4 notches on W. edges: from which Pine, 30 ins. diam., bears N. 10° W. 45 lks. dist., marked T. 26 S., R. 4½ W., S. 34, B. T. No other trees within limits. And raise a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Land mountainous. Soil stony 3rd and 4th Rate. Timber scattering spruce. Mountainous land, 80.00 chs.
	West along the south bdy. of the Tp. and sec. 34. Ascend, through dense scrub oak, mahogany and scattering pine and spruce timber
12.00	Top of mountain ridge, bears N. W. and S. E.
13.89	The cor. of secs. 4 and 5, T. 27 S., R. 4 W. which is a quartzite 6 × 12 × 4 ins. above the ground, firmly set marked as described by the Surveyor General.

Chains	
	We destroy all marks
	relating to the sec. north.
14.50	Enter heavy pine and spruce
	timber bears N. and S.
	Ascend.
25.00	Leave pine and spruce, bears N. and S.
	enter aspen timber.
40.00	Bottom of head of ravine.
	Course N. 600 ft. below
	mountain ridge.
	Set a trachyte stone 8 x 10 x 4 ins. 12
	ins. in the ground, for ¼ sec.
	Cor. marked ¼ S. 34, on N.
	face: and raise a mound
	of stone, 2 ft. base, 1½ ft.
	high, N. of cor.
	Pits impracticable.
	Ascend.
50.00	Leave aspen timber
	enter scattering spruce.
53.89	The ¼ sec. Cor. of sec. 5, T. 27 S. R. 4 W.
	which is a Limestone 6 x 12 x 16 ins.
	above the ground, firmly
	set, marked
	as described by the Surveyor
	General.
	We destroy all marks
	relating to the sec. north.
55.00	Top of ridge, bears N. and S.
	Descend over broken land
	through heavy aspen and pine
72.00	Ravine, 50 ft. deep Course N. W. Ascend.
82.00	Set a chamfered pine post 3 ft.
	long, 4 ins. sq. 24 ins. in
	the ground, for Cor. of secs.
	33 and 34, marked
	T. 26 S., R. 4 E. S. 34, on N. E.
	S. 33, on N. W. sides: with 3
	notches on E. and W. edges
	from which

South boundary of T. 26 S. R. 4½ W. Contin

Chains	
	A pine, 3 ins. diam. bears N. 15° E. 8 lks. dist. marked T. 26 S., R. 4½ W. Sec. 34 B. T.
	A pine, 3 ins. diam. bears N. 58° W. 7 lks. dist. marked T. 26 S., R. 4½ W., S. 33. B. T.
	Land mountainous
	Soil stony and gravel 3rd Rate.
	Timber
	Aspen, pine and spruce.
	Mountainous land 80.00 chs.
	West along the south bdy. of the Tp. and Sec. 33.
	Over broken land, ascend through heavy aspen and pine.
3.00	Top of spur, projects N. W. descend.
13.89	The cor. of secs. 5 and 6, T. 27 S., R. 4½ W. which is a sandstone 6×8×6 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General.
	We destroy all marks referring to the secs. north.
15.20	Spring branch, course N., 1 lk. wide.
39.50	Spring branch, course N. W. 1 lk. wide.
40.00	Set a trachyte stone 5×10×6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 33. on N. face: from which, an aspen, 3 ins. diam, bears N. 9 lks. dist, marked ¼ S. 33, B. T. No other bearing trees within limits, and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of Cor. Pits impracticable.
42.00	Canon road, bears N. and S.
44.80	Dry Creek, 8 lks. wide, pure water, 5 ins. deep, and Canon 1000 ft. deep, course N. 15 E.

South boundary of T. 26 S., R. 4½ W. Continued

Chains	
45.00	Leave aspen timber bears N. and S. begin steep ascent.
53.89	The ¼ sec. cor. of sec. 6, T. 27 S., R. 4 W. which is a quartzite stone 5 x 14 x 8 ins. above the ground, firmly set marked and witnessed as described by the Surveyor General. We destroy all marks and witnesses referring to the sec. north.
80.00	Set a trachyte stone 6 x 10 x 6 ins. 11 ins. in the ground, for cor. of secs. 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, N. of cor. Pits impracticable. Land mountainous. Soil stony 3rd Rate. Timber aspen, pine and spruce. Mountainous land, 80.00 chs.
	Act. 2; At this cor. we set off 3° 36' S on the decl. arc: and at 11h 49m A.M., l. m. t. observe the sun on the meridian the resulting lat. is 38° 30' N
	West on the south bdy. of the Tp. and sec. 32. Ascend through scattering pine and dense scrub oak.
50	Top of mountain ridge, bears N. 25° E. and S. 25° W. Descend over shale rock.

South boundary of T. 26 S. R. 4½ W. Contr

Chains	
11.45	The cor. of Tp. 27 S. R. 4 and 5 W. which is a shale stone, 6 x 10 x 8 ins. above the ground, firmly set, marked and witnessed as described by the Surveyor General. We destroy marks on stone and bearing trees, referring to Tp. 26 S. Rs. 4½ and 5 W. and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable.
19.50	Bottom of ravine, 700 ft. deep. Course N. 15° E. Ascend.
34.50	Top of mountain ridge, bears N.E. and S.W. descend.
40.00	Set a trachytestone 16 x 11 x 5 ins. 11 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 32, on N. face: And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable
48.50	Bottom of ravine, 500 ft. deep. Course N.E. Ascend.
66.00	Top of ridge, bearing N. 15° E. and S. 15° W. descend. Enter scattering pine timber.
80.00	Set a quartzite stone 18 x 12 x 5 ins. 12 ins. in the ground, for Cor. of secs. 31 and 32, marked with 5 notches on E. and 1 notch on W. edges: from which A pine, 16 ins. diam, bears N. 60 lks. dist marked, T. 26 S., R. 4½ W. S. 31, S. 32, B. T. Land mountainous. Soil stony 3rd and 4th Rate. Timber pine. Mountainous land 80.00 chs

South boundary of T. 26 S. R. 4½ W. Contin

Chains	
	West on South bdy of Tp. and sec. 31.
	Over rolling land, descend through dense scrub oak and scattering pine timber.
5.00	Leave pine timber.
40.00	Set a trachyte stone 16 × 10 × 6 ins. 11 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 31. on N. face: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
68.50	Road from Gold Mountain to Sevier, bears N. and S. Allowing for covergency of meridian at
77.71	Set a trachyte stone 12 × 8 × 6 ins. 8 ins. in the ground for Cor. of Tp. 26 S., Rs. 4½ and 5 W. marked with 6 notches on the E., W. and N. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. This cor. is 800 ft. below the cor. of secs. 31 and 32. Land mountainous Soil stony 3rd Rate. Timber pine Mountainous land. 77.71 chs. Oct. 2. 1900

Oct. 3. At 8 A. M. l. m. t. we set off 38° 30' N on the lat. arc: 3° 55' S. on the decl. arc, and determine a true meridian with

West boundary of T. 26 S., R. 4½ W.

Chains	
	the Solar at the Cor. of Tps. 26 S. Rs. 4½ and 5 W. Thence run North, bet. secs. 31 and 36. Over stony soil, descend through dense arrimesa and Scrub oak.
12.00	Mill Creek, 15 lks. wide, pure water, 6 ins. deep, and Canon, 15.00 ft. deep. Course N. 25° E. ascend.
40.00	Set a Hachytestone 18 x 10 x 6 ins. 12 ins. in the ground, for ¼ Sec. Cor, marked ¼ S. 36. on W. and 31 on E. faces: And raise a mound of Stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
56.50	Top of ridge. bears N. E. and S. W. descend.
68.00	Bottom of ravine, 800 ft. deep, Course N. E. ascend.
80.00	Set a quartzite stone, 14 x 10 x 8 ins. 10 ins. in the ground, for Cor. of secs. 25, 30, 31 and 36. marked with 1 notch on S. and 5 notches on N. edges: and raise a mound of Stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable. Land mountainous. Soil Stony 3rd and 4th Rate. No timber. Mountainous land 80.00 chs.

West boundary of T. 26 S., R. 4½ W. Contin

Chains	
	North bet. secs. 25 and 30. Over rolling land, ascend through dense artimesa scrub oak and scattering pinion and Cedar timber.
36.00	Top of ridge, bears N. E. and S. W. Descend.
40.00	Set a trachyte stone 4 × 6 × 6 ins. 10 ins. in the ground, for ¼ sec. cor, marked ¼ S. 25, on W. and 30, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
48.00	Bottom of ravine, 400 ft. deep, Course N. E. ascend.
78.00	Top of ridge, bears N. E. and S. W. Descend.
80.00	Set a trachyte stone 3 × 10 × 4 ins. 9 ins. in the ground, for Cor. of secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. 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 pinion and Cedar. Mountainous land and dense undergrowth 80.00 Chs.
	Oct. 3: At this Cor. we set off 4°00' S. on the decl. arc: and at 11h49m A. M., l. m. t. observe the sun on the meridian the resulting lat. is 38°32' N.

West boundary of T. 26 S., R. 42 E. Contin

Chains	
	North bet. secs. 19 and 24.
	Over rolling land, descend.
	through dense artimesa
	scrub oak and scattering
	Cedar and pinion timber
22.00	West fork of Mill Creek, now dry, in
	Cañon 400 ft. deep, Course
	N. E. descend
24.00	Wagon road
	bears N. E. and S. W.
40.00	Set a trachyte stone 14 x 10 x 6 ins.
	10 ins. in the ground, for
	¼ sec. Cor, marked ¼ S. 24,
	on W. and 19, on E. faces:
	and raise a mound of stone,
	2 ft. base, 1½ ft. high, W. of Cor.
	Pits impracticable.
74.00	Top of ridge, bears N. 70° E.
	and S. 70° W. descend.
80.00	Set a trachyte stone 14 x 8 x 5 ins. 10
	ins. in the ground, for Cor.
	of secs. 13, 18, 19 and 24. marked
	with 3 notches on S. and E.
	edges: from which
	A pinion, 4 ins. diam., bears
	S. 19° E. 78 lks. dist: marked
	T. 26 S., R. 42 E., S. 19, B. T.
	A cedar, 4 ins. diam., bears
	S. 70° W., 25 lks. dist, marked
	T. 26 S., R. 5 W., S. 24, B. T.
	A cedar, 4 ins, diam. bears N. 52°
	W. 69 lks. dist. marked
	T. 26 S., R. 5 W., S. 13, B. T.
	No other trees within limits
	And raise a mound of
	stone, 2 ft. base, 1½ ft.
	high, W. of Cor.
	Pits impracticable.
	Land mountainous.
	Soil stony. 3rd Rate.

West—Boundary of T. 26 S., R. 4½ W. Continued

Chains	
	Timber, Cedar and pinion, Mountainous land and dense undergrowth. 80.00 chs.
	North, bet. secs. 13 and 18. Over rolling land, ascend through dense pinion and scattering cedar and pinion timber.
21.00	Top of ridge, bears E. and W. Descend.
40.00	Set a trachyte stone 8 x 10 x 8 ins. 12 ins. in the ground, for ¼ sec. cor. marked ¼ S. 13. on W. and 18, on E. faces: from which A pinion, 2 ins. diam., bears N. 70° E. 30 lks. dist., marked ¼ S. 18. B. T. A pinion, 5 ins. diam., bears N. 75° W. 38 lks. dist., marked ¼ S. 13, B. T.
45.50	Wagon road bears E. and W.
52.50	Bottom of ravine, 75 ft. deep. Course N. 75° E. ascend.
80.00	Set a trachyte stone 12 x 10 x 5 ins. 8 ins. in the ground, for Cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges: from which A cedar, 36 ins. diam., bears N. 85° E., 1.40 chs. dist., marked T. 26 S., R. 4½ W., S. 7. B. T. No other trees within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

West boundary of T. 26 S., R. 4½ W. Cor

Chains	
	Land rolling. Soil stony 3rd Rate Timber pinion and cedar Underbrush 10.00 chs.
	North, bet. secs. 7 and 12. Over rolling land, ascend through dense artimesa, scrub oak, scattering cedar and pinion timber.
32.50	Top of trachyte ledges, 50 ft. high, bear E. and W.
40.00	Set a trachyte stone 12 x 8 x 6 ins. 8 ins. in the ground, for ¼ sec. cor., marked ¼ S. 12, on W. and 7, on E. faces; from which A pinion, 6 ins., diam., bears N. 28° E., 25 lks. dist. marked ¼ S. 7, B. T. A cedar, 12 ins. diam, bears N. 25° W. 21 lks. dist. marked ¼ S. 12. B. T.
49.40	Top of rocky spur, projects S. W.
67.40	Top of ridge, bears N. E. and S. W. descend.
82.90	Intersect 5th Standard Parallel South, the north body, of Tp. 26 S., R. 4½ W., 10.05 chs. East of the cor. of Tp. 25 S. Rs. 4½ and 5 W. which is a Lava stone 18 x 12 x 8 ins. 12 ins. in the ground, marked As described by the Surveyor General. Set a trachyte stone 4 x 10 x 6 ins. 10 ins. in the ground, for Closing Cor. Tp. 26 S. Rs. 4½ and 5 W.

West boundary of T. 26 S. R. 4½ W. Concluded.

Chains

marked with 6 grooves on the E. W. and S. faces: and raise a mound of stone. 2 ft. base, 1½ ft. high, S. of cor.
Pits impracticable
Land rolling
Soil Stony 3rd Rate
Timber Cedar and pinion
Dense undergrowth. 82.90 Chs.
Oct. 3. 1900.

Boundaries of T. 26 S., R. 4½ W.
Latitudes departures and closing errors.

Line designated	True bearing	Distances	Latitudes N.	Latitudes S.	Departure E.	Departure W.
5th Standard Parallel South.		chs.	chs.	chs.	chs.	chs.
S. bdy. sec. 31. (Tp. 25 S. R. 4 W.)	West	8.60				8.60
S. bdy. sec. 36.	N. 88°43' W.	78.19	1.75			78.17
S. bdy. sec. 35.	N. 88°43' W.	78.19	1.75			78.17
S. bdy. sec. 34	S. 89°32' W.	41.35		.34		41.35
	S. 86°24' W.	39.15		2.46		39.07
S. bdy. sec. 33.	West	80.00				80.00
S. bdy. sec. 32.	West	81.20				81.20
S. bdy. sec. 31.	West	70.70				70.70
West bdy.	South	402.90		402.90		
South bdy.	East	477.71			477.71	
East bdy.	North	401.90	401.90			
Convergency						.45
			405.40	405.70	477.71	477.71
				405.40	477.71	
Errors in Lat. and Dep.				0.30	0.00	

For General Description, see book of subdivisions.

Hubert D. Page
Harry Erwin
U.S. Deputy Surveyors

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

.....

.....

6–161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 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 approval see Cook N. of Sp. Pr.

_____
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 June 3 1902, 189

The foregoing field notes of the survey of the South and West Boundaries of Township 26 South Range 4 1/2 West of the Salt Lake Base & Meridian Utah

executed by Hulet D Page and Harry Erwin under ~~his~~ their contract No. 232, dated November 24, 1899, 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.

BLANK

PAGE

BLANK

PAGE

4—679.

V.

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

Subdivision

of

Township No. 26 South

Range No. 4½ West

Of the Salt Lake Base and Meridian,

In the State of Utah

AS SURVEYED BY

Hubert D. Page and Harry Erwin, United States Deputy Surveyors

under ~~his~~ their Contract No. 232, dated November 24th, 1899.

Survey commenced October 4th, 1900

Survey completed " 16th, 1900

6—151

	m. chs lks	
Sub- high	48-77-17 ✓	49 07-87
" low	10-70 ✓	
closings	29.03 ✓	

NAMES AND DUTIES OF ASSISTANTS.

Willie L. Neal chainman
Alfred H. Shorten "
Orson M. Allred mound man
Otis S. Allen ad man
Herbert Price "
Orson M. Allred Flag man

For preliminary affidavit see book J. Tp 29 S. R 5 W

6—151

Volume
#
R0293

BOOK A-293

INDEX DIAGRAM.

Township 26 S., *Range* 11 1/2 W.

6	5	4	3	2	1
141 7 198 8 184 9 175 10 166 11 158 12					
197	196	183	174	165	157
140 18 195 17 182 16 173 15 164 14 156 13					
193	192	181	172	164	155
139 19 191 20 180 21 171 22 163 23 154 24					
190	189	179	170	162	154
138 30 188 29 178 28 169 27 161 26 153 25					
187	186	177	168	160	152
137 31 185 32 177 33 167 34 159 35 151 36					
136	134	133	131	130	129

*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

Subdivision of T. 26 S. R. 4½ W. Continue

Chains

Survey commenced
October 4, 1900
and executed with the instrument described in book "S" of this survey.
We know the instrument to be in adjustment by recent observations made Sept 21 and 22nd 1900. and recorded in the book "S" of this survey.

Oct. 4: At 8 a.m. b.m.t. we set off 38°30' on the lat. arc: 4°18' S. on the decl. arc: and determine a true meridian with the solar, on the S. bdy. of the township at the cor. of secs. 35 and 36. heretofore described. Thence we run N. 0°1' W. bet. secs. 35 and 36. Over stony soil, ascend the steep N. bank of Deer Creek Canon, through dense mahogany and pine timber

28.80 Top of steep ascent, 500 ft. above cor. of secs. 35 and 36 Leave timber bears E. and W. Over rolling land, ascend.

40.00 Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 35 on W. and 36 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.

80.00 Top of ridge, bears N.E. and S.W.
Set a trachyte stone 12 x 10 x 5 ins. 8 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, marked with 1 notch on S. and 1 notch on E.

Subdivision of T. 26 S, R. 4½ W. Continu

Chains	
	edges: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. Land mountainous Soil, stony 4th Rate Timber pine. Mountainous land 80.00 chs.
	E. on a random line bet. secs. 25 and 36
40.00	Set temp. ¼ sec. cor.
80.06	Intersect E. bdy. of Tp. at Cor. of secs. 25 and 36, which is a lime Stone, marked as described by Surveyor General. Thence we run W. on a true line bet. secs. 25 and 36 Ascend over stony soil, through scattering Cedar and pinion timber and dense oak brush.
40.03	Set a trachyte, 14 x 8 x 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ S. 25 on N. and 36 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of Cor. Pits impracticable. Leave timber and undergrowth.
80.06	The cor. of secs. 25, 26, 35 and 36. on a ridge bears N.E. and S.W. 600 ft. above the Closing Cor. of secs. 25 and 36 on E. bdy. of Tp. Land mountainous Soil stony. 4th Rate. Timber Cedar and pinion. Mountainous land. 80.06 chs.

Subdivision of T. 26 S., R. 4½ W. Continued.

Chains	
	Oct. 4: At this Cor. we set off 4° 23' S. on the decl. arc: and at 11h 49m A. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38° 31' N.
	N. 0° 1' W. bet. secs. 25 and 26.
	Over stony rolling land, descend through dense oak brush.
38.00	Ravine, 300 ft. deep course E.
40.00	Set a trachyte stone 12 × 9 × 5 ins. 8 ins. in the ground for ¼ sec: cor. marked ¼ S. 26. on W. and 25 on E. faces: and raise a mound of stone, 2 ft. base. 1½ ft. high W. of Cor.
	Pits impracticable.
	Begin ascent.
70.00	Top of ridge, bears N. E. and S. W. Descend.
80.00	Set a trachyte stone 16 × 12 × 5 ins. 11 ins. in the ground, for Cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.
	Pits impracticable
	Land mountainous.
	Soil, stony 4th Rate
	No timber
	Dense undergrowth and mountainous land. 80.00 Chs.
	E. on a random line bet. secs. 24 and 25.

Subdivision of T. 26 S., R. 42 E. Continued

Chains	
40.00	Set stone. ¼ Sec. cor.
80.10	Intersect C. bdy. of Tp. at Cor. of Secs. 24 and 25. which is a Sandstone Marked as described by Surveyor General. Thence run N. on a true line, bet. Secs. 24 and 25. Run rolling land, ascend through heavy Cedar and pinion timber.
5.40	Ravine, 35 ft. deep, Course S. E.
30.00	Leave timber, bears N.W. and S.E. enter dense oak bush.
33.20	Ravine 100 ft. deep. Course S. E.
40.05	Set a trachyte stone 16 x 8 x 8 ins. 11 ins. in the ground, for ¼ Sec. cor. marked ¼ S. 24 on N. and 25 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Begin ascent of high mountain ridge.
80.10	The cor. of Secs. 23, 24, 25 and 26. This cor. is 1000 ft. above the corner of Secs. 24 and 25. on C. bdy. of Tp. Land mountainous Soil, Stony and loam. 3rd Rate Timber Cedar and pinion. Dense undergrowth, heavily timbered as mountainous land. 80.10 Chs.

N. 0° 1' E. bet. Secs. 23 and 24. Ascend over the C. slope of Mountain ridge, through dense oak bush.

40.00	Set a trachyte stone 21 x 20 x 15 ins. 14

Subdivision of T. 26 S. R. 4½ W. Continue

Chains	
	ins. in the ground, for ¼ sec. Cor. marked ¼ S. 23 on W. and 24 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.
	Pits impracticable.
41.00	Top of mountain ridge, bears N. E. and S. W.
	Begin descent.
80.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for Cor. of secs. 13, 14, 23 and 24, marked with 3 notches on S. and 1 notch on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high W. of Cor.
	Pits impracticable.
	Land mountainous.
	Soil stony 4th Rate.
	No timber.
	Dense undergrowth or mountainous land 80.00 chs.
	Oct. 4: 1900
	Oct. 5: At 8 A.M. l.m.t. we set off 38°33' N on the lat. arc: 4°41' S. on the decl. arc: and determine a true meridian with the Solar at the Cor. of secs. 13, 14, 23 and 24.
	Thence we run E. on a random line, bet. secs. 13 and 24.
40.00	Set temp. ¼ sec. cor.
80.02	Intersect E. bdy. of Tp. 3 lks. S. of Cor. of secs. 13 and 24 which is a trachyte stone marked as described by Surveyor General.
	Thence we run S. 89°59' W. on a true line, bet.

Subdivision of T. 26 S., R. 4½ W. contin

Chains	
	Secs. 13 and 24.
	Ascend along the N. slope of a ridge bearing N.E. and S.W. through dense oak brush and scattering cedar and pinion timber.
40.01	Set a trachyte stone 16 x 9 x 4 ins. 11 ins. in the ground, for ¼ sec. cor. marked ¼ S. 13 on N. and 24 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
80.02	The cor. of secs. 13, 14, 23 and 24. Land mountainous. Soil stony and loam. 4th Rate. Timber cedar and pinion. Dense undergrowth. 80.02 chs.
	N. 0° 1' W. bet. secs. 13 and 14. Descend through dense oak brush.
9.80	Head of ravine, Course E. Ascend.
40.00	Top of ridge, 800 ft. above cor. of secs. 11, 12, 13 and 14. bears E. and W. Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 14 on W. and 13 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
52.00	Enter heavy cedar and pinion timber. bears N.W. and S.E.
80.00	Set a trachyte 12 x 10 x 5 ins. 5 ins. in the ground, for cor. of secs. 11, 12, 13 and 14. marked with

Subdivision of T. 26 S., R. 4½ W. Continued.

Chains	
	4 notches on S. and 1 notch on E. edges: from which Pinion, 8 ins. diam., bears N. 35° E., 53 lks. dist., marked T. 26 S., R. 4½ W., S. 12. B. T. Pinion, 3 ins. diam., bears S. 80° E. 14 lks. dist. marked T. 26 S., R. 4½ W., S. 13. B. T. Pinion, 5 ins. diam., bears S. 25° W. 39 lks. dist., marked T. 26 S., R. 4½ W., S. 14, B. T. Pinion, 3 ins. diam., bears N. 26° W. 27 lks. dist., marked T. 26 S., R. 4½ W., S. 11, B. T. Land mountainous. Soil Adobe 4th Rate. Timber, Cedar and pinion. Dense undergrowth, mountainous land or heavily timbered 80.00 chs.
	Oct 5: At this Cor. we set off 4° 46' S. on the Decl. arc: and at 11h 49m A.M. L. M. L., observe the sun on the meridian, the resulting lat. is 38° 33' 30" N
	N. 89° 59' E. on a random line bet. secs. 12 and 13.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 3 lks. N. of Cor. of secs. 12 and 13, which is a sandstone 10 x 12 x 8 ins. above the ground, firmly set, marked as described by the Surveyor General. Thence we run West on a true line bet. secs. 12 and 13. Ascend along the north slope of mountain ridge, over projecting spurs, through dense altimisa and scrub oak.

Chains	
3.00	Top of hachyle ledges 30 ft. high, bear N. E. and S. W. descend.
40.00	Set a hachyle stone 13 x 10 x 9 ins. 9 ins. in the ground, for ¼ sec. cor. marked ¼ S. 12. on N. and 13. on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
45.00	Bottom of ravine, 50 ft. deep; Course N. E. Ascend.
76.00	Enter heavy cedar and pinion timber, bears N. and S.
80.00	The cor. of secs. 11, 12, 13 and 14. Land rolling. Soil stony 3rd Rate. Timber Cedar and pinion. Heavily timbered on close undergrowth, 80.00 chs.

N. 0° 1' W. bet. secs. 11 and 12.
Over rolling land, descend through heavy cedar and pinion timber.

1.50	Leave timber bears E. and W. Enter close on timber.
40.00	Set a hachyle stone 16 x 8 x 6 ins. 11 ins. in the ground, for ¼ sec. cor, marked ¼ S. 11, on W. and 12, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
42.00	Bottom of ravine, 50 ft. deep, Course E. ascend.
70.00	Top of ridge, bears E. and W. descend.
81.90	After diligent search, Standard Cor. of Secs. 35 and 36, T. 25 S., R. 4½ W. described by Surveyor General, Cannot be found.

Subdivision of T. 26 S. R. 4½ W. Continued.

Chains

As the Standard Cor. of sec. 35 and 36. is missing, we retrace the 5th Standard Parallel South.

Oct. 7: we continue the line.

83.64 Intersect the 5th Standard Parallel South, S. 88°43' E. 6.78 chs. dist. from Standard Cor. of secs. 35 & 36 T. 25 S. R. 4½ W. previously described.

Set a trachyte stone 24×10×12 ins. 18 ins. in the ground, for closing Cor. of secs. 11 and 12, marked C.C. on S. face, and with 1 groove on E. and 5 grooves on W. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of Cor. Pits impracticable Land rolling.

Soil stony 3rd Rate

Timber Cedar and pinion.

Dense undergrowth or heavily timbered 83.64 chs.

Oct. 7, 1900

Oct. 8: At 8 A.M. l.m.t. we set off 38°30' N on lat. arc: 5°50' S. on decl. arc: and determine a true meridian with the solar, at the Cor. of secs. 34 and 35, on South bdy. of the Tp. heretofore described. Thence we run N. 0°1' W. bet. secs. 34 and 35.

Ascend through heavy aspen timber.

10.00 Top of ridge, bears E. and W. descend Enter scattering pine.

40.00 Set a charred aspen post, 3 ft. long. 3 ins. sq. 24 ins. in the ground, for ¼ sec. cor. marked ¼ S. 34, on W. and 35 on E. faces: from which A aspen, 6 ins. diam., bears S. 30° E., 10 lks. dist., marked ¼ S. 35, B.T.

Chains	
	Aspen, 10 ins. diam., bears N. 30 W. 15 lks. dist., marked ¼ S. 34. B. T.
60.00	Top of ridge bears E. and W. descend.
74.00	Bottom of ravine, 60 ft. deep. Course N. E. ascend.
80.00	Set a trachyte stone 12 x 9 x 5 ins., 8 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: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. Land mountainous. Soil stony 3rd Rate Timber aspen and pine Heavily timbered or dense undergrowth 80.00 chs.
	E. on a random line, bet. Secs. 26 and 35.
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line at Cor. of Secs. 25, 26, 35 and 36. Thence run West on a true line bet. Secs. 26 and 35. Over rolling land, descend through dense scrub oak. to the north slope of a high mountain point.
40.02	Set a trachyte stone 14 x 10 x 6 ins., 10 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 26. on N. and 35 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. Begin ascent.
45.00	Top of ridge, bears N. and S. descend.

Subdivision of T. 29 S. R. 4½ W. Continued

Chains	
71.00	Ravine 60 ft. deep course N. E.
80.04	The cor. of secs. 26 27 34 and 35
	This cor. is 700 ft. below the cor. of secs. 25, 26, 35 and 36.
	Land mountainous
	Soil stony 4th Rate
	No timber
	Dense undergrowth. 80.04 chs.

	N. 0° 1 W. bet. secs. 26 and 27.
	Ascend through dense oak brush.
7.50	Top of ridge bears E. and W.
	Begin descend through heavy aspen timber.
21.00	Leave aspen, bears E. and W.
35.00	Road bears E. and W.
40.00	Set a trachyte stone 18 x 5 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ S. 27 on W. and 26 on E. faces: and raise a mound of stone. 2 ft. base. 1½ ft. high. W. of cor.
	Pits impracticable.
	Bottom of Ravine, course W.
	Begin ascent.
46.00	Top of ridge, begin descent through dense aspen, oak brush and mahogany.
80.00	Set a trachyte stone 13 x 10 x 7 ins. 9 ins. in the ground; for cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and 2 notches on E. edges: from which
	A aspen, 3 ins. diam. bears S. 45° W. 75 lks. dist. marked T. 26 S. R. 4½ W. S. 27. B. T.
	No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor.

Subdivision of T. 26 S. R. 4½ W. Cont.

Chains	
	Pits impracticable
	Land, rolling
	Soil, loam. 3rd Rate
	Timber aspen
	Heavily timbered or dense
	undergrowth, 80.00 chs.
	Oct. 8: At this Cor. we set off 5°55' S on the decl arc: and at 11h48m A. m. l. m. t. observe the sun on the meridian, the resulting lat. is 38°32' N
	E. on a random line, bet. secs. 23 and 26
40.00	Set temp. ¼ Sec. Cor.
80.00	Intersect U. and S. line. 5 lks. S of Cor. of secs. 23, 24, 25 and 26.
	Thence we run
	S. 89°58' W. on a true line. bet. secs. 23 and 26
	Ascend over stony soil through dense oak brush.
14.00	Top of high mountain ridge.
	Begin descent.
40.00	Set a Conglomerate stone. 12×11×7 ins. 8 ins in the ground. for ¼ sec. cor. marked. ¼ S. 23 on U. and 26 on S. faces: and raise a mound of stone. 2 ft. base. 1½ ft. high. U. of cor.
	Pits impracticable.
55.00	Road. bears U. and S.
57.00	Ravine. 100 ft. deep. Course U. W.
	Enter scattering aspen timber ascend.
80.00	The cor. of secs. 22, 23, 26 and 27.
	This cor. is 800 ft. below cor. of

Subdivision of T. 26 S. R. 4½ W. Continue

Chains	
	Secs. 23, 24, 25 and 26. Land mountainous. Soil stony and loam. 3rd and 4th Rate. Timber aspen. Dense undergrowth and Mountainous land. 80.00 chs.
	N. 0°1' W. bet. secs. 22 and 23. Descend through dense oak brush.
25.00	Ravine, 100 ft. deep Course N. W. Ascend
40.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 22 on W. and 23 on E. faces and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
60.00	Top of ridge, bears N. W. and S. E. Cover broken land, through scattering pine timber.
80.00	Set a trachyte stone 15 x 9 x 6 ins. 10 ins. in the ground, for Cor. of secs. 14, 15, 22 and 23. marked with 3 notches on the S. and 2 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable. Land rolling. Soil, stone and loam. 3rd and 4th Rate. Timber, pine, Dense undergrowth. 80.00 chs.
	N. 89°58' E. on a random line, bet. 14 and 23.

Chains	
40.00	Set temp. ¼ Sec. Cor.
80.06	Intersect N. and S. line 3 lks. W. of Cor. of Secs. 13. 14. 23 and 24. Thence run S. 89° 59' W. on a stone line, bet. Secs. 14 and 23. Run stony soil, ascending through dense oak bush.
20.00	Top of high mountain ridge. bears N. and S. Descend over broken land.
40.03	Set a Hackystone 4 x 9 x 6 ins. 10 ins. in the ground for ¼ Sec. cor. marked ¼ S. 14 on W. and 23 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable.
62.00	Ravine, 100 ft. deep. Course W. Begin ascent through Scattering pine timber.
80.06	The cor. of Secs. 14, 15, 22 and 23. Land mountainous: Soil, stony. 4th Rate Timber pine. Limit undergrowth. 80.06 chs.

October 8, 1900

Oct. 9: At 8 a. m. l. m. true set of 38° 33' N. on Dist. arc: 6° 13' S. on decl. arc: and determine a true meridian with the solar, at the cor. of Secs. 14. 15. 22 and 23.

Thence run N. 0° 1' W. bet. Secs. 14 and 15. Run stony broken land. Descend along the last slope of a high ridge bearing generally N. and S. - through

Subdivision of T. 26 S., R. 4½ W. Continue

Chains	
	Scattering cedar, pinion and scrub oak.
40.00	Set a trachyte stone 4 x 10 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 15, on W, and 14, on E. faces: and raise a mound of stone. 2 ft. base, 1½ ft. high, W. of cor.
	Pits impracticable.
80.00	Set a trachyte stone 18 x 7 x 7 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15. marked with 4 notches on S. and 2 notches on E. edges: from which
	A pine, 4 ins. diam., bears N. 70° E. 19 lks. dist. marked T. 26 S., R. 4½ W., S. 11, B. T.
	A pine, 4 ins. diam., bears S. 75° E. 29 lks. dist. marked T. 26 S., R. 4½ W., S. 14, B. T.
	A pine, 3 ins. diam., bears S. 20° W. 30 lks. dist. marked T. 26 S., R. 4½ W., S. 15, B. T.
	A pine, 3 ins. diam., bears N. 70° W., 32 lks. dist. marked T. 26 S., R. 4½ W., S. 10. B. T.
	600 ft. below cor. of secs. 14, 15, 22 and 23.
	Land mountainous.
	Soil stony 3rd Rate.
	Timber cedar and pinion.
	Mountainous land. 80.00 chs.
	Lt. 9. At this cor. we set off 6° 18' S on the lat. arc: and at 11h 47m A. M., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 33' 31" N
	N. 89° 59' E. on a random line. bet. secs. 11 and 14.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line
	3 lks. north of cor. of secs. 11, 12, 13 and 14.
	Thence we run
	West on a true line,

Subdivision of T. 26 S., R. 4½ W. Continued

Chains	
	bet. secs. 11 and 14.
	Over broken land, descend through heavy cedar and pinion timber.
22.00	Bottom of ravine, 100 ft. deep, Course N.
32.00	Bottom of ravine, 150 ft. deep, Course N. ascend.
40.00	Set a hachyte stone 13 × 9 × 6 ins., 9 ins. in the ground, for ¼ sec. cor. marked ¼ S. 11, on N. and 14, on S. faces: from which Pinion, 14 ins. diam., bears N. 50° W. 30 lks. dist., marked ¼ S. 11, B. T. Pinion, 12 ins. diam., bears S. 35° W., 52 lks. dist., marked ¼ S. 14, B. T.
53.50	Top of mountain ridge, bears N. and S. Begin abrupt descent.
77.00	Bottom of ravine, 300 ft. deep. Course N. ascend.
80.00	The cor. of secs: 10, 11, 14, and 15. Land mountainous. Soil Stony, 3rd and 4th Rate. Timber, cedar, pine and pinion. Mountainous Land. 80.00 chs.

N. 0° 1' W. bet. secs. 10 and 11.
Over stony soil, descend through heavy pine timber.

11.50	Bottom of ravine, 250 ft. deep. Course N. W. Scare timber bears N. W. and S. E. ascend through dense oak and mahogany.
40.00	Set a hachyte stone 12 × 9 × 5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 10, on W. and 11, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
43.50	Top of ridge, bears N. W. and S. E.

Subdivision of T. 26 S. R. 4½ W. Continued

Chains	
	Over rolling land, descend through dense artimesia and scattering Cedar and pinion timber.
85.28	Intersect N. bdy. of Tp. 5th Standard Parallel South S. 88° 43' E. 4.94 chs. dist. of standard Corner of secs. 34 and 35, T. 25 S., R. 4½ W. which is a lava stone 18 x 10 x 6 ins. in a mound of stone, marked as described by the Surveyor General. Set a trachyte stone 13 x 12 x 6 ins. 9 ins. in the ground, for closing Cor. of secs. 10 and 11, marked C, C. on South face, and with 2 grooves on E. and 4 grooves on W. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable. 600 ft. below top of ridge, 41.78 chs. S. Land mountainous. Soil stony 3rd Rate. Timber Cedar, pine and pinion. Mountainous land 85.28 chs. October 9, 1900
	Oct. 10: At 8 A. M., l. m. t. we set off 38° 30' N on the lat. arc: 6° 36' S. on the decl. arc: and determine a true meridian with the Solar, at the Cor. of secs. 33 and 34, on the South bdy. of the Tp. heretofore described. Thence we run N. 0° 2' W. bet. secs. 33 and 34. Over stony broken land, descend through dense oak brush and aspen timber, along the east bank of Dry Creek Cañon.

Subdivision of T. 26 S., R. 4½ W. Continued

Chains	
12.50	Bottom of ravine, 50 ft. deep. Course N. W.
40.00	Set a trachyte stone 12×11×5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 33. on W. and 34, on E. faces: from which A scrub oak, 3 ins. diam., bears N. 75° E. 38 lks. dist., marked ¼ S. 34 B. T. No other suitable trees within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high. W. of Cor. Pits impracticable.
75.50	Spring branch, Course W. 1 lk. wide.
80.00	Set a trachyte stone 15×14×6 ins., 10 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges: from which An oak, 2 ins. diam., bears N. 81° E., 41 lks. dist., marked T. 26 S., R. 4½ W., S. 27. B. T. An oak, 4 ins. diam., bears S. 72° E. 14 lks. dist., marked T. 26 S., R. 4½ W., S. 34, B. T. An oak, 2 ins. diam., bears S. 9° W., 56 lks. dist., marked T. 26 S., R. 4½ W., S. 33, B. T. An oak, 4 ins. diam., bears N. 80° W., 7 lks. dist., marked T. 26 S., R. 4½ W., S. 28, B. T. Land broken Soil stony, 3rd Rate. Timber aspen Dense undergrowth 80.00 chs.
	Oct. 10: At this Cor. we set off 6° 41' S. on the decl. arc: and at 11h 47m A. M., l. m. t. observe the sun on the meridian, the resulting lat. is 38° 31. N
	E. on a random line, bet. secs. 27 and 34.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 3 lks.

Subdivision of T. 26 S. R. 4 E. W. Cont'd

Chains.	
	S. of cor. of secs. 26, 27, 34 and 35. Thence run S. 89° 59' W. on a true line bet. secs. 27 and 34. Over rolling land, ascend through dense oak brush.
28.00	Top of ridge, bears N. 35° E. and S. 35° W. begin descent through dense chamisa and scrub oak.
40.00	Set a stone 4 x 9 x 5 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 27 on N. and 34 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
80.00	The cor. of secs. 27, 28, 33 and 34. Land mountainous. Soil, stony and clay. 4th Rate. No timber. Dense undergrowth. 80.00 chs.
	N. 0° 2' W. bet. secs. 27 and 28. Ascend through dense oak brush.
19.90	Wagon road bears N. E. and S. W.
40.00	Set a stone 4 x 12 x 5 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 28 on W. and 27 on E. faces: from which A scrub oak, 2 ins. diam. bears N. 40° E. 60 lks. dist. marked ¼ S. 27, B. T. A scrub oak, 3 ins. diam. bears N. 50° W. 8 lks. dist. marked ¼ S. 28, B. T.
47.50	Top of spur, projects W.
64.00	Ravine, 300 ft. deep, course N. W.
80.00	Set a stone 12 x 10 x 6 ins. 8 ins. in

Chains	
	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 rolling Soil Stony Loam, 3rd Rate. No timber. Dense undergrowth. 80.00 chs.
	N. 89° 59' E. on a random line bet. Secs. 22 and 27.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 3 lks. N. of Cor. of Secs. 22, 23, 26 and 27. Thence run W. on a true line, bet. Secs. 22 and 27. Ascend through dense scrub oak.
40.00	Set a Stachytes stone 3 x 10 x 7 ins. 9 ins. in the ground, for ¼ sec. cor. marked ¼ S. 22 on N. and 27 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. This ¼ sec. cor. is on N. slope of high mountain Spur projecting N. Begin descent.
62.50	Wagon road bears N. E. and S W.
80.00	The cor. of Secs. 21, 22, 27 and 28. Land rolling Soil Stony Loam, 3rd Rate No timber Dense undergrowth. 80.00 chs. October 10. 1900.

Subdivision of T. 26 S. R. 42 W. Contd.

Chains	
	Oct. 11 at 9 A.M. l.m.t. we set off 38° 32' N. on the lat arc: 6° 59' S. on the decl arc: and determine a true meridian with the solar at the Cor. of secs. 21, 22, 27 and 28.
	Thence we run N. 0° 2' W. bet. secs. 21 and 22. Along the east bank of Dry Creek Canon, through dense artimesa and scrub oak. descend.
3.80	Top of Sandstone spur projecting S. W. 30 ft. high.
7.00	Enter scattering pinion, bears N.E. and S.W.
29.00	Dry Creek, 4 lks. wide, pure water, 4 ins. deep, and Canon, 200 ft. deep, Course N.E. Begin ascent.
39.90	Ravine, 60 ft. deep. Course E.
40.00	Set a trachyte stone 13 x 8 x 6 ins. 9 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 21 on W. and 22 on E. faces: and from which A pinion, 10 ins. diam. bears S. 45° E. 19 lks. dist. marked ¼ S. 22. B. T. A pinion, 14 ins. diam. bears N. 45° W. 36 lks. dist. marked ¼ S. 21. B. T.
52.35	Sandstone ledges, 50 ft. high, bear N.E. and S.W.
58.00	Top of Saddle in ridge, bears N.E. and S.W. Begin descent over stony soil.
80.00	Set a trachyte stone 16 x 10 x 5 ins. 11 ins. in the ground, for cor. of secs. 15, 16, 21 and 22. marked T. 26 S. on N.E. and R. 42 W. on S.E. faces: and with 3 notches on S. and 3 notches on E. edges:

Subdivision of T. 26 S. R. 4½ W. Cor

	Claims
	from which
	A pinion 5 ins. diam. bears E.
	62 lks. dist. marked
	T. 26 S. R 4½ W. S 15. S 22. B. T.
	A scrub oak, 3 ins. diam. bears
	S. 15° W. 63 lks. dist. marked
	T. 26 S. R. 4½ W. S. 21, B. T.
	A pinion, 5 ins. diam. bears
	N. 25° W. 42 lks. dist. marked
	T. 26 S. R. 4½ W. S. 16. B. T.
	Land, broken and mountainous
	Soil Stony and Clay 4th Rate
	Timber pine,
	Mountainous land 80.00 chs.
	E. on a random line bet.
	Secs. 15 and 22.
40.00	Set temp. ¼ Sec. Cor.
80.00	Intersect N. and S. line, 5 lks. S.
	of Cor. of Secs. 14. 15. 22 and 23.
	Thence run
	S. 89° 58' W. on a true line, bet.
	Secs. 15 and 22.
	ascend through dense artimesia
	and scrub oak and scattering
	Cedar and pinion timber
5.50	Top of ridge, bears N. 25° E. and
	S. 25° W. Begin descent over
	stony soil, bare timber
	bears N. E. and S. W.
40.00	Set a trachyte stone 12 x 9 x 7 ins. 8 ins.
	in the ground, for ¼ Sec. Cor.
	marked ¼ S. 15. on N. and 22,
	on S. faces: and raise a mound
	of stone, 2 ft. base, 1½ ft.
	high N. of Cor.
	Pits impracticable.
43.50	Enter Scattering Cedar and pinion

Subdivision of T. 26 S. R. 4½ W. Cont.

Chains	
	timber, bears N.E. and S.W.
56.50	Dry Creek, 5 lks. wide, 6 ins. deep, pure water, and Canon, 600 ft. deep, Course N. 10° E.
	Begin ascent
57.00	Wagon road, bears N. and S.
66.00	Begin steep ascent over trachyte ledges and boulders.
78.00	Top of steep ascent, 600 ft. above bottom of Canon, Ridge, bears N. and S.
	Begin descent.
80.00	The cor. of secs. 15, 16, 21 and 22. Land mountainous. Soil stony 4th Rate Timber Cedar and pinion. Mountainous land 80.00 chs.
	Oct. 11. At this cor. we set off 7° 03' S on the decl. arc: and at 11h 47m A.m., l.m.t., observe the sun on the meridian the resulting lat. is 38° 33' N.
	N. 0° 2' W. bet. secs. 15 and 16. Descend through dense artimesia and Scrub oak and scattering Cedar and pinion timber.
25.00	Bottom of basin, drains W.
28.00	Top of trachyte ledges 75 ft. high, bear E. and W.
40.00	Set a limestone 12×10×5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 16 on W. and 15 on E. faces: from which

Subdivision of T. 26 S. R. 4½ W. Contin

Chains	
	A pinion 16 ins. diam. bears S. 60° W. 12 lks. dist. marked ¼ S. 16. B. T.
	A pinion 18 ins. diam. bears N. 20° E. 26 lks. dist. marked ¼ S. 15. B. T.
45.50	Top of ridge. bears E. and W.
50.00	Top of sandstone ledges 200 ft high bear E. and W.
64.00	Foot of sandstone ledges
	Over rolling clay land through heavy cedar and pinion timber.
80.00	Set a trachyte stone 18 x 11 x 10 ins. 12 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edges: from which
	A pinion, 5 ins. diam. bears N. 70° E. 38 lks. dist. marked T. 26 S. R. 4½ W. S. 10. B. T.
	A Cedar, 5 ins. diam. bears S. 20° E. 18 lks. dist. marked T. 26 S. R. 4½ W. S. 15. B. T.
	A pinion, 20 ins. diam. bears S. 20° W. 16 lks. dist. marked T. 26 S. R. 4½ W. S. 16. B. T.
	A cedar, 10 ins. diam. bears N. 30° W. 64 lks. dist. marked T. 26 S. R. 4½ W. S. 9. B. T.
	Land mountainous. Soil, clay and stony 3rd and 4th Rate Timber cedar and pinion. Heavily timbered or mountainous land. 80.00 lks.
	N. 89° 58' E. on a random line bet. secs. 10 and 15.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks.

Chains	
	N. of Cor. of secs. 10, 11, 14 and 15.
	Thence we run
	West on a true line, bet. secs. 10 and 15.
	Over broken land, ascend through
	scattering pine timber.
1.00	Top of Spur, projects N. descend.
9.50	Cleav. 50 ft. deep, Course N. ascend.
30.00	Top of sandstone ledges, 150 ft. high,
	bear N. and S. descend.
	Leave timber bears N. and S.
34.00	Enter dense artimesa and scrub oak
40.00	Set a trachyte stone 14×10×8 ins.
	10 ins. in the ground, for ¼ sec. cor.
	marked ¼ S. 10. on N. and 15 on S. faces:
	from which
	An oak, 2½ ins. diam., bears N. 5° E.
	3 lks. dist. marked ¼ S. 10. B. T.
	An oak, 2½ ins. diam. bears S. 12 lks.
	dist. marked ¼ S. 15, B. T.
41.75	Wagon road, bears N. and S.
43.25	Lily Creek, 5 lks. wide, pure water,
	6 ins. deep in Canon 360 ft. deep.
	Course N. Ascend through
	scattering cedar and pinion timber.
45.25	Top of sandstone ledges 100 ft. high, and
	ridge, bears N. and S. descend over
	rolling land through heavy timber.
80.00	The Cor. of secs. 9, 10, 15 and 16.
	Land mountainous.
	Soil stony, 3rd and 4th Rate.
	Timber. Cedar, pine and pinion.
	Mountainous land 80.00 chs.

	N. 0° 2' W. bet. secs. 9 and 10.
	Over rolling land, descend through dense
	artimesa and scattering Cedar and pinion.
.20	Ravine, 75 ft. deep. Course N.E. Ascend.
6.00	Begin descent.

Chains	
39.00	Ravine, 100 ft. deep, Course N.E. ascend.
40.00	Set a trachyte stone, 16×10×8 ins., 11 ins. in the ground for ¼ Sec. Cor. marked ¼ S. 9. on W. and 10. on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
55.00	Top of spur, projects N. 30° E. descend.
74.00	Ravine, 100 ft. deep, Course N.E. ascend.
— 82.93	Intersect 5th Standard Parallel South, N. 86° 24' E., 5.37 chs. from Standard Cor. of Secs. 33 and 34, Tp. 25 S. R. 4½ E. which is a lava stone 14×14×12 ins. above the ground, marked as described by the Surveyor General. This corresponds to the retracement. Set a trachyte stone 15×13×6 ins. 10 ins. in the ground, for closing cor. of Secs. 9 and 10, marked C.C. on S. 9 grooves on E. and W. faces: from which Opinion, 10 ins. diam., bears S. 21° 30' E. 72 lks. dist. marked T. 26 S. R. 4½ E. S. 10. B.T. Opinion, 12 ins. diam., bears S. 21° W. 89 lks. dist. marked T. 26 S. R. 4½ E., S. 9. B.T. Land mountainous. Soil stony. 3rd Rate. Timber, Cedar and pinion. Dense undergrowth. 82.93 chs.

October 11, 1900

October 12: At 8 a.m. I commenced set off 38° 30' E. on Lat. arc: 7' 22" S. on dec. arc: and determine a true meridian with the Solar, at the Cor. of Secs. 32 and 33, on the S. bdy. of the township, heretofore described. Thence we run

Subdivision of T. 26 S. R. 4 E. Continued

Chains	
	N. 0° 3' W. bet. secs. 32 and 33.
	Ascend through dense artimisia
	and scattering pine timber.
50	Top of ridge. bears N.E. and S.W.
	Descend over rolling land.
12.00	Leave pine timber. bears N.W. and S.E.
40.00	Set a trachyte stone 5 x 5 x 6 ins. 10 ins.
	in the ground, for ¼ sec. cor.
	marked ¼ S. 32. on W. and 33 on E.
	faces: and raise a mound of
	stone, 2 ft. base. 1½ ft. high.
	W. of cor. Pits impracticable.
40.25	Ravine, 600 ft. deep, Course N. 15° E.
	Begin ascent, through dense scrub oak.
69.50	Top of ridge, bears N. 30° E. and S. 30° W.
	Descend
80.00	Set a trachyte stone 4 x 10 x 6 ins. 10 ins
	in the ground, for cor. of secs.
	28, 29, 32 and 33.: marked with 1
	notch on S. and 4 notches on
	E. edges: and raise a mound
	of stone, 2 ft. base. 1½ ft. high.
	W. of cor. Pits impracticable.
	Land mountainous.
	Soil, Stony clay 4th Rate
	Timber pine
	Undergrowth pine and
	Mountainous land 8000 chs.

	E. on a random line bet. secs.
	28 and 33.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, at cor. of
	secs. 27, 28, 33 and 34.
	Thence run
	W. on a true line bet. secs.
	28 and 33.
	Descend through dense scrub
	oak.

Subdivision of T. 26 S. R. 4½ W. Continued

Chains	
13.00	Wagon road bears N. 10° E. and S. 10° W.
17.00	Dry Creek. 4 lks. wide, pure water 5 ins. deep and Canon, 500 ft. deep, Course N. 15° E. Ascend over stony Soil.
37.00	Top of ridge, bears N. 10° E and S. 10° W. Descend.
40.00	Set a trachyte 20×17×7 ins. 15 ins. in the ground, for ¼ sec. cor. marked ¼ S. 28 on N. and 33. on S. faces: and raise a mound of stone 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable.
49.00	Ravine, 600 ft. deep Course N. 35° E. Ascend.
73.50	Top of ridge, bears. N. 30° E and S. 30° W. Descend
80.00	The Cor. of secs. 28, 29, 32 and 33. Land mountainous Soil stony clay and loam, 3rd and 4th Rate. No timber. Dense undergrowth and Mountainous land; 80.00 chs.
	Oct 12; At this Cor. we set off 7° 25' S. on the decl. arc: and at 11h 47m A. M. L. M. T. observe the sun on the meridian the resulting lat. is 38° 31' N
	N. 0° 3' W. bet. secs. 28 and 29. Descend over stony Soil, through dense oak brush and Artimesa
24.00	Ravine 300 ft. deep, Course N. E.

Subdivision of T. 26 S. R. 4½ W. Continued

Chains	
	Begin steep ascent.
40.00	Point for ¼ sec. cor. subject to slides, thereafter
58.15	Top of high mountain ridge bears E. and W.
	Set a trachyte stone 18 x 12 x 7 ins., 12 ins in the ground, for W. C. to ¼ sec. Cor. marked W. C. ¼ S. 29, on W. and 28 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
	Begin descent.
80.00	Set a trachyte stone 14 x 10 x 5 ins. 10 ins. in the ground, for cor. of secs. 20, 21, 28 and 29. marked with 2 notches on S. and 4 notches on E. edges: and raise a mound of stone, 2 ft. base. 1½ ft. high, W. of Cor. Pits impracticable. Land mountainous. Soil stony Clay. 4th Rate No timber Dense undergrowth and mountainous land, 80.00 Chs.
	E. on a random line, bet- Secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 7 lks N. of Cor. of secs. 21, 22, 27 and 28. Thence run N. 89° 57' W. on a true line bet. secs. 21 and 28.
	Descend through dense oak brush.
2.00	Enter heavy aspen timber bears N. ¾ E.

Chains	
2.50	Dly Crk. 5 lks. wide, spring water 6 ins. deep and Canon 350 ft. deep. Course N.
9.25	Leave heavy aspen timber bears N. and S. Begin ascent over stony soil through dense oak brush.
30.00	Top of ridge, bears N. and S.
31.00	Begin steep descent over stony soil, point for ¼ sec. falls on a steep slope subject to slides, thereon we set a trachyte stone 14 x 10 x 4 ins. 10 ins. in the ground, for W. C. to ¼ Sec. Cor. marked W. C. ¼ S. 21 on N. and 28 on S. faces: and raise a mound of stone. 2 ft. base, 1½ ft. high N. of Cor. Pits impracticable.
40.03	¼ Cor. falls on steep slope and cannot be set.
50.00	Ravine, 500 ft. deep, Course N. 30 W. Ascend.
80.06	The cor. of Secs. 20, 21, 28 and 29. Land mountainous Soil stony 3rd and 4th Rate Timber aspen Dense undergrowth and mountainous land. 80.06 chs.

October 12. 1900

Oct. 13: At 8 a.m. l. m. t. we set off 38° 32' W on Sat arc: 7° 44' S on dec. arc: and determine a true meridian with the Solar at the cor. of Secs. 20, 21, 28 and 29.

Thence we run

N. 0° 3' W. bet Secs. 20 and 21. Descend, through dense oak brush and at times over stony soil.

20.00	Draw 30 ft. deep, Course N. 15° W.

Subdivision of T. 26 S. R. 4½ W. Contr

Chains	
40.00	Set a trachyte stone 15 x 10 x 4 ins. 10 ins. in the ground. for ¼ sec. Cor. marked ¼ S. 20 on W. and 21 on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high W. of Cor. Pits impracticable.
68.00	Ravine, 150 ft. deep, Course N. W. Ascend, through heavy cedar and pinion timber.
80.00	Set a trachyte stone 20 x 10 x 7 ins. 15 ins. in the ground. for Cor. of Secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edges: from which A pinion, 10 ins. diam. bears S. 20° E. 15 lks. dist. marked T. 26 S, R. 4½ W. S. 21, B. T. A pinion, 8 ins. diam. bears S. 20° W. 15 lks. dist. marked T. 26 S. R. 4½ W. S. 20, B. T. A pinion, 24 ins. diam. bears N. 25° W. 15 lks. dist. marked T. 26 S. R. 4½ W. S. 17, B. T. A pinion, 6 ins diam. bears N. 45 E. 45 lks. dist. marked T. 26 S, R. 4½ W. S. 16. B. T. Land rolling. Soil stony 3rd Rate Timber Cedar and pinion. Dense undergrowth or heavily timbered 80.00 chs.
	S. 89° 57' E. on a random line, bet. Secs. 16 and 21
40.00	Set temp. ¼ sec. Cor.
80.04	Intersect N. and S. line, 3 lks. S. of Cor. of Secs. 15, 16, 21 and 22. Thence we run N. 89° 5' 8" W. on a true line, bet. Secs. 16 and 21. Descend through dense artimesa and scrub oak, scattering

Chains	
	Cedar and pinion timber.
.15	Quartzite, course N.
3.00	Top of spur, projects N.
40.02	Set a trachyte stone 5 x 9 x 6 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ S. 16 on N. and 21 on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
50.00	Ravine, 300 ft. deep, course N. 30° W. Begin ascent, enter heavy Cedar and pinion timber bears N. 30° W. and S. 30° E.
78.10	Top of ridge bears N. W. and S. E.
80.04	The cor. of secs. 16, 17, 20 and 21. Land rolling. Soil, stony 3rd Rate. Timber Cedar and pinion. Brush undergrowth and heavily timbered. 80.04 chs.

N. 0° 3' W. Set sec. cors. 16 and 17. Ascending through heavy Cedar and pinion timber, and stony soil.

35.00	Top of mountain ridge, bears E. and W. Descend
40.00	Set a trachyte stone 12 x 10 x 5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 17 on W. and 16 on E. faces: from which E. pinion, 8 ins. diam. bears N. 35° E. 20 lks. dist. marked ¼ S. 16. B. T. W. pinion, 4 ins. diam. bears S. 20° W. 35 lks. dist. marked ¼ S. 17. B. T. Leave heavy timber bears E. and W. enter scattering timber and dense cactus and oak brush.

Subdivision of T. 26 S., R. 4½ W. Continued

Chains	
	Oct. 13. At this cor. we set off 7°48' S on the decl. arc: and at 11h 46m A.M., l.m.t., observe the sun on the meridian the resulting lat. is 38°33' N
76.00	Leave timber bears E. and W.
80.00	Set a trachyte stone 12 x 9 x 5 ins. 8 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on S. and E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Land mountainous. Soil stony, 3rd Rate. Timber cedar and pinion. Dense undergrowth or heavily timbered 80.00 Chs.
	S. 89°58' E. on a random line bet. secs. 9 and 16.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 5 lks. S. of cor. of secs. 9, 10, 15 and 16. Thence we run West on a true line bet. secs. 9 and 16. Over rolling land, through heavy Cedar and pinion timber. descend
.15	Bottom of ravine, 60 ft. deep, Course N. E.
40.00	Falls on a boulder, 6 x 5 x 2 ft. above the ground, we cut a cross (x) at the exact Cor. point, for ¼ sec. cor, mark ¼ S. 9, on N. and 16 on S. sides: from which A pinion, 6 ins. diam, bears N. 30° E. 18 lks. dist. marked ¼ S. 9. B. T. A cedar, 10 ins. diam, bears S. 20° W. 27 lks. dist. marked ¼ S. 16. B. T.
46.90	Spring branch, Course N. E. 1 lk. wide,

Chains	
55.00	Top of sandstone ledges, 150 ft. high, bear N. 15° E. and S. 15° W. descend.
74.00	Leave timber, bears N. and S.
	Bottom of ravine, 150 ft. deep, course N. 15° E.
80.00	The Cor. of secs. 8, 9, 16 and 17.
	Land rolling.
	Soil stony 3rd Rate.
	Timber cedar and pinion.
	Heavily timbered or dense undergrowth, 80.00 chs.

N. 0° 3' W. bet. secs. 8 and 9.
Over stony soil, ascend through dense artimesa and scrub oak.

8.20	Top of ridge, bears N. E. and S. W. descend.
15.00	Mill Creek, 10 lks. wide, pure water, 3 ins. deep, course N. E. ascend.
15.30	Enter cultivated land. Mrs. A. Morrison's ranch bears E. and W.
26.00	Leave cultivated land, S. take fence, bears E. and W. over stony soil, though dense artimesa and scrub oak.
26.50	Road from Gold Mountain to Silver Station, bears E. and W.
40.00	Set a hachy stone 2 x 9 x 5 ins, 8 ins. in the ground, for ¼ sec. Cor, marked ¼ S. 8, on W, and 9, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor. Pits impracticable.
48.50	Top of ridge, bears N. E. and S. W.
82.80	Intersect N. bdy. of Tp. 5th Standard Parallel South.
72.10 / 10.70	E. 5.37 chs. dist. of the Standard Cor. of secs. 32 and 33, T. 25 S. R. 4½ W.
	heretofore described.

Subdivision of T. 26 S., R. 4½ W. Continued.

Chains

Set a trachyte stone 16 x 8 x 6 ins. 11 ins. in the ground for closing cor. of secs. 8 and 9. marked C.C. on S. face, with 4 grooves on E. and 2 grooves on W. faces: from which
A pinion, 8 ins. diam., bears S. 87° W. 10 lks. dist., marked T. 26 S., R. 4½ W., S. 8, . . . , B. T.
No other trees within limits and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
Pits impracticable.
Land rolling.
Soil stony and loam
1st and 3rd Rate.
Timber cedar and pinion.
Dense undergrowth, 72.10 chs.
October 13, 1900

Oct. 14: At 8 A. M., l. m. t. we set off 38°30' N on the lat. arc: 8°06' S. on the decl. arc: and determine a true meridian withe the solar, at the cor. of secs. 31 and 32, on the south bdy of the township, heretofore described.
Thence we run
N. 0°3' W. bet. secs. 31 and 32
Over stony soil, descend along the west slope of high mountain ridge, through dead and fallen timber, scattering pine and aspen and dense scrub oak.

Subdivision of T. 26 S., R. 4½ W. Continued

Chains	
34.00	Begin steep descent.
40.00	Set a pine post, 3 ft. long, 3 ins. sq., 24 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 31, on W. and 32. on E. faces: from which
	A aspen, 4 ins. diam., bears S. 30° E. 45 lks. dist., marked ¼ S. 32. B. T.
	A aspen, 3 ins. diam., bears S. 35° W. 40 lks. dist., marked ¼ S. 31, B. T.
58.50	Spring branch 1 lk. wide, 2 ins. deep, in ravine, 400 ft. deep,
	Course W. ascend
	Leave timber.
80.00	Set a trachyte stone 12 x 9 x 5 ins. 8 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: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of Cor.
	Pits impracticable.
	The Cor. is 900 ft. below the Cor. of secs. 31 and 32 on the south bdy of the township.
	Land mountainous
	Soil stony, 3rd Rate.
	Timber aspen and pine.
	Mountainous land 80.00 chs.
	E. on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. Cor.
80.00	Intersect N. and S. line, at Cor. of secs. 28, 29, 32 and 33.

Chains	
	Thence run W. on a true line, bet. secs. 29 and 32. Cuts rolling land; descend through dense oak bush.
23.00	Ravine 300 ft. deep, course N. E. Begin ascent.
40.00	Set a trachyte stone 5 x 11 x 4 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 29 on N. and 32 on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable.
53.00	Top of mountain ridge, bears N. and S. descend.
80.00	The cor. of secs. 29, 30, 31 and 32. Land, mountainous. Soil, stony. 3rd Rate No timber Dense undergrowth and mountainous land, 80.00 chs.
	W. on a random line, bet. secs. 30 and 31.
40.00	Set stone. ¼ sec. Cor.
77.62	Intersect W. bdy. of Tp. 7 lks. N. of Cor. of secs. 25, 30, 31 and 36. heretofore described. Thence run N. 89° 57' E. on a true line, bet secs. 30 and 31. Descend over stony land through dense scrub oak.
7.60	Ravine 400 ft. deep course N. Ascend.
21.00	Top of high rocky spur, projecting N. Descend
37.00	Mill Creek, 10 lks. wide, runs

Chains	
	water, 12 ins. deep, and Canon 1500 ft. deep, course N. Begin ascent through dense aspen and scattering pine timber.
37.62	Set a stachy lestone 8 x 12 x 5 ins. 12 ins. in the ground for ¼ Sec. cor. marked ¼ S. 30 on N. and 31 on S. faces: from which A aspen, 9 ins. diam. bears N. 10 lks. dist. marked ¼ S. 30, B. T. A aspen, 9 ins. diam. bears S. 5 lks. dist. marked ¼ S. 31, B. T.
44.80	Road from Gold Mountain to Senior Station bears N. and S.
62.60	Spring branch, course N. 1 lk. wide. Leave timber ascend through dense scrub oak.
77.62	The cor. of secs. 29, 30, 31 and 32. Land mountainous Soil, stony 3rd Rate Timber Aspen and pine. Dense undergrowth, heavily timbered mountainous land. 77.62 chs.
	Adopt: At this cor. we set off 8° 11' S. on the decl. arc: and at 1'46" A. m. L. M. T. observe the sun on the meridian the resulting lat. is 38° 31' N
	N. 0° 3' W. bet. secs. 29 and 30 Over rolling land ascend through dense aspen and scrub oak.
35.20	Top of ridge, bears E. and W. Begin descent.
40.00	Set a stachy lestone 12 x 9 x 5 ins. 8 ins.

Subdivision of T. 26 S. R. 4½ W. Conti

Chains	
	in the ground, for ¼ sec. cor. marked ¼ S. 30, on W. and 29, on E. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
52.00	Enter scattering cedar and pinion timber bears N. W. and S. E.
55.00	Ravine, 200 ft. deep, course N. W.
80.00	Set a trachyte stone 12×12×6 ins. 8 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edges: and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable Land rolling: Soil stony 3rd Rate. Timber, cedar and pinion. Dense undergrowth 80.00 chs.
	E. on a random line bet secs. 20 and 29.
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line, 7 lks. N. of cor. of secs. 20, 21, 28 and 29. Thence, we run N. 89° 57' W. on a true line bet. secs. 20 and 29. Over rolling land, ascend through dense artimesa and scrub oak.
21.00	Top of ridge bears N. and S.
39.50	Drain, 40 ft. deep course N.
40.00	Set a trachyte stone 12×9×5 ins. 8 ins. in the ground for ¼ sec. cor. marked ¼ S. 20 on N. and 29 on S. faces: and raise a mound of stone,

Chains	
	2 ft. base. 1½ ft. high. N. of cor.
	Pits impracticable.
80.00	The cor. of secs. 19, 20, 29 and 30.
	Land rolling
	Soil stony 3rd Rate
	No timber
	Dense undergrowth 80.00 lks

S. 89° 57' W. on a random line
bet. secs. 19 and 30.

40.00	Set temp. ¼ sec. cor.
77.53	Intersect W. bdy. of T. 5 lks N. of cor. of secs. 19, 24, 25 & 30 hereto for described.
	Thence run
	N. 89° 55' E. on a true line, bet. secs. 19 and 30.
	Run rolling land, descend through dense artimesia and scrub oak and scattering cedar and pinion timber.
3.50	Top of ridge, bears N. E. and S. W.
10.50	Ravine, 400 ft. deep course N. E.
18.50	Top of ridge, bears N. and S.
30.00	Road from Gold Mountain to Scurry Station bears N. and S.
30.75	Mill Creek, 10 lks. wide, pure water, 12 ins. deep and Canon 800 ft. deep. Course N.
	Begin ascent.
37.33	Set a trachyte stone 14 x 12 x 8 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 19 on N. and 30, on S. faces: and raise a mound of stone, 2 ft. base, 1½ ft. high. N. of cor. Pits impracticable.
46.00	Top of ridge, bears W. N. W. & S. E. descend.
54.50	Top of Conglomerate ledges, bear N. and S. descend.

Subdivision of T. 26 S. R. 4½ W. Contin

Chains	
67.00	Ravine, 100 ft. deep course N.
77.53	The cor. of secs. 19 20 29 and 30. Land mountainous. Soil, stony 3rd Rate Timber cedar and pinion. Dense undergrowth and mountainous land. 77.53 chs. October 14, 1900
	Oct. 15: Gt 8 A.M. l.m.t. we set off 38° 32' N. on lat. arc: 8° 29' S on decl. arc: and determine a true meridian with the solar at the cor. of secs. 19, 20, 29 and 30. Thence we run N. 0° 3' W. bet. secs. 19 and 20. Over rolling land, descend through scattering cedar and pinion timber, dense artimesa and scrub oak.
22.00	Ravine, 150 ft. deep, course N. W. Begin ascent.
40.00	Set a conglomerate stone, 14x10x4 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 19, on W. and 20, on E. faces: from which A pinion, 6 ins. diam. bears N. 80° E. 21 lks. dist. marked ¼ S. 20. B. T. A pinion, 6 ins. diam. bears S. 80° W. 40 lks. dist. marked ¼ S. 19. B. T. Descend
74.00	Wood road, and bottom of ravine, 200 ft. deep course N. W. begin ascent over stony soil.
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:

Chains	
	from which R Cedar, 36 ins. diam. bears N. 30° E. 45 lks. dist. marked T. 26 S. R. 4½ W. S. 17. B. T. R pinion 12 ins. diam. bears S. 35° E. 62 lks. dist. marked T. 26 S. R. 4½ W. S. 20. B. T. R Cedar, 12 ins. diam. bears S. 30 W. 27 lks. dist. marked T. 26 S. R. 4½ W. S. 19. B. T. R pinion, 16 ins. diam. bears N. 25° W. 60 lks. dist. marked T. 26 S. R. 4½ W. S. 18. B. T. Land mountainous. Soil, stony 4th Rate Timber Cedar and pinion Line undergrowth and mountainous land. 80.00 chs.
	S. 89° 57' E. on a random line bet. Secs. 17 and 20
40.00	Set stone, ¼ sec. cor.
80.00	Intersect W. and S. line, at cor. of secs. 16, 17, 20 and 21. Thence we run N. 89° 57' W. on a true line bet. secs. 17 and 20. Cross broken red clay ridges and spurs, along S. slope of mountain ridge, through dense Cedar and pinion timber, descend.
7.55	Leave heavy timber bears N. W. and S. E. enter scattering timber
20.00	Set a stone 12 x 9 x 5 ins. 8 ins. in the ground, for ¼ sec. cor. marked ¼ S. 17. on N. and 20. on S. faces:

Subdivision of T. 26 S. R. 4½ W. Conti

Chains	
	from which
	A cedar, 10 ins. diam. bears N. 15° W.
	67 lks. dist. marked ¼ S. 17 B. T.
	No other trees within limits.
	and raise a mound of stone,
	2 ft. base, 1½ ft. high, N. of cor.
	Pits impracticable.
44.00	Ravine, 200 ft. deep, Course N. W.
	Leave scattering timber bears
	N. W. and S. E. begin ascent
	through dense artimesa
	and oak brush over broken
	land.
70.00	Top of ridge bears N. W. and S. E.
	Enter heavy Cedar and pinion
	timber bears N. W. and S. E.
	Begin descent.
80.00	The cor. of secs. 17, 18, 19 and 20.
	Land mountainous.
	Soil clay and stony 3rd Rate.
	Land, cedar and pinion.
	Heavily timbered, mountainous
	land, or dense
	undergrowth. 80.00 Chs.
	Oct. 15: At this cor. we set off
	8°33' S. on the decl. arc: and at
	11h46m A. m. l. m. t. observe the
	sun on the meridian, the
	resulting lat. is 38°33' N.
	S. 89°55' W. on a random line
	bet. secs. 18 and 19
40.00	Set temp. ¼ sec. cor.
77.44	Intersect W. bdy. of Tp. 7 lks. S.
	of Cor. of secs. 13, 18, 19 and 24 heretofore described.
	Thence we run
	N. 89°58' E. on a true line bet.

Chains	
	Secs. 18 and 19.
	Our rolling land, descend through heavy cedar and pinion timber.
23.00	Top of ridge bears N.E. and S.W.
37.44	Falls on a trachyte boulder 5 × 4 × 4 ft. above ground, we cut a cross (×) at the exact Cor. point for ¼ sec. Cor. mark ¼ S. 18 on N. and 19 on S. sides: from which Pinion, 10 ins. diam. bears S. 55° W. 25 lks. dist. marked ¼ S. 19. B. T. No other trees within limits and raise a mound of stone 2 ft. base, 1½ ft. high, N. of Cor. Pits impracticable. Leave timber bears N.E. and S.W. enter dense artimisia and oak.
40.40	Wagon road, bears N.E. and S.W.
41.00	Westfork of Mill Creek, now dry in Canon 400 ft. deep, Course N.E. ascend.
49.00	Point of Spur, projecting N. descend.
58.50	Road from Gold Mountain to Senior Station bears N. and S.
60.00	Mill Creek. 12 lks. wide, pure water, 4 ins. deep and Canon 300 ft. deep Course N. Begin ascent.
67.00	Top of Spur, projects N.W. Enter scattering Cedar & pinion timber, bear N. and S. Descend
74.50	Ravine, 200 ft deep and Course N.W. Road, bears N.W. and S.E. Ascend.
77.44	The cor. of Secs. 17, 18, 19 and 20 Land mountainous Soil, Stony. 3rd Rate Timber Cedar and pinion.

Chains	
	Heavily timbered mountainous land. 77.44 chs.
	N. 0° 3' W. bet. secs. 17 and 18 Over stony soil ascend through heavy cedar and pinion timber.
10.00	Top of Spur, projects N. W. Leave timber bears N. W. and S. C. Begin descent over rolling land through dense artimesa and scrub oak.
21.00	Road from Gold Mountain to Senior Station bears E. and W.
21.40	Mill creek, 10 lks. wide, pure water 6 ins. deep, and canon 300 ft. deep, Course E. Begin ascent.
40.00	Top of ridge bears N.E. and S. W. Set a trachyte stone 12 x 10 x 5 ins. 8 ins in the ground, for ¼ Sec. cor, marked ¼ S. 18; on W. and 17 on E. faces: from which A pinion, 3 ins. diam. bears S. 30° E. 15 lks. dist. marked ¼ S. 17, B. T. No other trees within limits. And raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. Enter scattering cedar and pinion timber bears E. and W.
48.00	Ravine, 150 ft. deep, Course E.
60.00	Enter heavy cedar and pinion timber, bears E. and W.
80.00	Set a trachyte stone 13 x 8 x 8 ins. 9 ins. in the ground, for cor. of secs. 7. 8. 17 and 18. marked with 4 notches on S. and 5 notches on E. edges:

Subdivision of T. 26 S. R. 4½ W. Continued

Chains	
	from which
	A pinion, 7 ins. diam. bears N. 80° E. 17 lks. dist. marked T. 26 S. R. 4½ W. S. 8. B. 7.
	A pinion, 7 ins. diam. bears S. 48° E. 46 lks. dist. marked T. 26 S. R. 4½ W. S. 17. B. 7.
	A cedar, 6 ins. diam. bears S. 60° W. 16 lks. dist. marked T. 26 S. R. 4½ W. S. 18. B. 7.
	A cedar, 6 ins. diam. bears N. 8° W. 36 lks. dist. marked T. 26 S. R. 4½ W. S. 7. B. 7.
	Land mountainous
	Soil, stony. 3rd Rate
	Timber, cedar and pinion.
	Heavily timbered or mountainous land. 80.00 chs.
	October 15. 1900
	Oct. 16: At 8 a.m. l.m.t. we set off 38° 33.30' on lat. arc: 8° 50' S. on decl. arc: and determine a true meridian with the solar at the cor. of secs. 7, 8, 17 and 18.
	Thence we run
	S. 89° 57' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. ¼ sec. cor.
79.95	Intersect N. and S. line, 21 lks. S. of cor. of secs. 8, 9, 16 and 17.
	Thence we run
	S. 89° 54' W. on a true line bet. secs. 8 and 17.
	Ascending through dense artimesa and scattering cedar and pinion timber.
15.75	Top of Clay ridge, bears N.E. and S.W. leave timber.
	begin descent.
	From this point the dwelling house, Corral and Stables of Mrs. A. Morrison bear N. 25 chs.

Subdivision of T. 26 S., R. 42 E. Continued

Chains	
	dist.
31.90	Mill Creek, 8 lks. wide, pure water, 10 lks. deep, course N. E. ascend
39.97½	Set a trachyte stone 14 x 14 x 6 ins. 10 ins. in the ground, for ¼ sec. Cor. marked ¼ S. 8, on N. and W., on S. faces: from which Pinion, 14 ins. diam., bears N. 86° E. 1.08 chs. dist., marked ¼ S. 8, B. T. No other trees within limits. And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. Enter Scattering Cedar and pinion timber.
40.65	Road from Gold Mountain to Sevier Station, bears N. E. and S. W.
61.00	Top of trachyte ledges, 800 ft. above ¼ sec. cor., bear N. and S. Enter heavy Cedar and pinion timber, bears N. and S.
75.00	Top of mountain ridge, bears N. and S. descend.
79.95	The cor. of secs. 7, 8, 17 and 18. Land mountainous. Soil, stony 3rd and 4th Rate. Timber Cedar and pinion. Mountainous Land of dense undergrowth 79.95 chs.
	S. 89° 58' W. on a random line bet. secs. 7 and 18.
40.00	Set temp. ¼ sec. cor.
77.30	Intersect W. bdy. of Tp. 3 lks. N. of Cor. of secs. 7, 12, 13 and 18 therefore described. Thence run N. 8° 57' E. on a true line bet. secs. 7 and 18.

Chains	
	Over rolling land, descend through heavy cedar and pinion timber.
24.00	Bottom of ravine, 100 ft. deep, Course S. E. Ascend.
37.30	Set a trachyte stone 16 x 10 x 9 ins. 11 ins. in the ground, for ¼ Sec. Cor., marked ¼ S. T. on N. and 18. on S. faces: from which A pinion, 5 ins. diam., bears N. 15° W. 44 lks. dist., marked ¼ S. 7, B. T. A pinion, 12 ins. diam., bears S. 10° W. 60 lks. dist., marked ¼ S. 18. B. T.
63.00	Top of ridge, bears N. E. and S. W.
77.30	The Cor. of Secs. 7, 8, 17 and 18.
	Land rolling
	Soil a loam 3rd Rate.
	Timber, Cedar and pinion,
	Heavily timbered 77.30 chs.
	"
	Oct 16: At this Cor. we set off 8° 55' E on the elect. arc: and at 11h 46m A.M. l. m. t., observe the Sun on the meridian, the resulting lat: is 38° 33' N.
	N. 0° 3' W. bet. Secs. 7 and 8.
	Ascend through heavy pinion and Cedar timber.
4.25	Top of mountain ridge, bears E. and W. descend.
11.00	Bottom of ravine, 500 ft. deep, Course E. Ascend.
40.00	Set a trachyte stone 14 x 11 x 7 ins. 10 ins. in the ground, for ¼ Sec. Cor. marked ¼ S. 7. on W. and 8. on E. faces: from which A Cedar, 8 ins. diam., bears S. 15° E. 8 lks. dist. marked ¼ S. 8. B. T.

Subdivision of T. 26 S. R. 4½ W. Conclu

Chains

A cedar, 8 ins. diam. bears N. 80° W. 43 lks dist. marked ¼ S. 7, B. T.

— 83.00 Intersect north bdy. of Tp. 5th Standard Parallel South. E. 6.57 chs. dist. of standard Cor. of secs. 31 and 32, T. 25 S., R. 4½ W. rees tablished by us and heretofore described

Set a trachytestone 13 x 8 x 6 ins. 9 ins. in the ground, for closing Cor. for secs. 7 and 8, marked C.C., on S. face and with 5 grooves on E. and 1 groove on W. faces: from which

A cedar, 5 ins. diam. bears S. 61° W. 32 lks. dist. marked T. 26 S. R. 4½ W. S. 7, B. T.

A pinion, 4 ins. diam. bears S. 70° E. 32 lks. dist. marked T. 26 S. R. 4½ W., S. 8, B. T.

800 ft. above bottom of ravine.

Land mountainous.

Soil stony, 3rd Rate.

Timber, cedar and pinion.

Mountainous land and heavily timbered, 83.00 chs.

October 16, 1900

General Description.

This township is situated on the northeast portion of the Tushar mountains, the altitude ranging from about 6500 ft. in the north east portion to about 8500 ft. in the southern portion.

The soil is generally a stony clay, covered with a dense

undergrowth and scattering groves of pine and aspen or cedar and pinion timber, making it unsuitable for agricultural purposes.

The soil of Mill and Dry Creek Cañons, where they widen into bottoms in the northern portion of the township, is a rich, black loam, capable of producing abundant crops without irrigation.

The township is watered by Dry Creek, in the central, and Mill Creek, in the western portion and by numerous springs, making it an excellent stock range.

Placer gold has been found in Secs. 31 and 32, but not in paying quantities. There are also mining claims in these secs., but not sufficient indications of mineral to return these or any other secs. in the Tp. as mineral land.

Mrs. A. Morrison is located in S. E. ¼ Sec. 8.

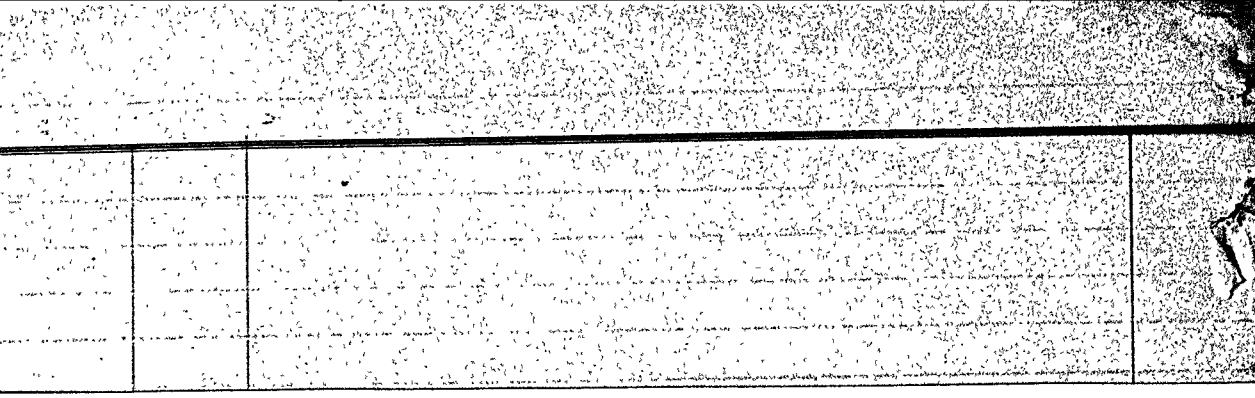
John Waters is located in N. W. ¼ Sec. 10. he has about 30 acres under cultivation, value of improvements 1500$

Mrs. A. Morrison has about 50 acres under cultivation, value of improvements about 2000 dollars.

Hubert D. Page,
Harry Erwin,
U.S. Deputy Surveyors.

There being no notary public or other officer authorized to administer oaths within reasonable distance at the beginning or ending of the survey, nor obliged to lose time and expense I administer the preliminary and final oaths myself

Hubert D. Page
U.S. Deputy Surveyor



BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

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

_____

showing the respective capacities in which they acted:

_____, *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

_____

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Erwin, 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 24th day of November, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of subdivision of T. 26 S. R. 4 1/2 W. Ts. 27, 28 & 29 S. R 5 W. and Ts. 28 & 29 S. R 4 W.

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

Harry Erwin
United States Deputy Surveyor.

Subscribed by said Harry Erwin, and sworn to before me this 25 day of May 1901, 189

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 189

The foregoing field notes of the survey of .....

executed by .....

under his contract No. ....., dated ....., 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

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

United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, and Harry Evans, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of subdivision of T. 6 S., R. 4½ W., T. 27, 28 & 29 S., R. 5 W., and T. 28 & 29 S., R. 4 W., of the Salt Lake Base & Meridian, Utah, showing the respective capacities in which they acted:

Willie L. Neal, Chainman.
Alfred H. Shouten, Chainman.
Orson M. Allred, Moundman.
....., Moundman.
Otis S. Allen, Axman.
Herbert Price, Axman.
Orson M. Allred, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page and Harry Evans, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of T. 6 S., R. 4½ W., T. 27, 28 & 29 S., R. 5 W., and T. 28 & 29 S., R. 4 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.

Willie L. Neal, Chainman.
Alfred H. Shouten, Chainman.
Orson M. Allred, Moundman.
....., Moundman.
Otis S. Allen, Axman.
Herbert Price, Axman.
Orson M. Allred, Flagman.

Subscribed and sworn to before me this 20th day of October 1900.

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

6—181

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, 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 24th day of November, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivision of T. 26 S. R. 4 W. Ts. 27, 28, and 29 S. R 5 W. Ts. 28 and 29 S. R 4 W.

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

Hubert D. Page
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me this 26 day of May 1901, 189

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 3, 1902, 189

The foregoing field notes of the survey of the subdivisions of Township 26 South Range 4 West of the Salt Lake Base and Meridian, Utah

executed by Hubert D. Page and Henry Ericson under ~~his~~ their contract No. 239, dated November 24, 1899, 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

6—151

BLANK

PAGE

BLANK

PAGE

4—679.

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

C-O-R-R-E-C-T-I-V-E N-O-T-E-S

O F

SUBDIVISION OF T.20 S.R.5 W.

of the SALT LAKE BASE AND *Meridian,*

IN THE STATE OF UTAH

AS SURVEYED BY

Robert I. Page and Harry [illegible] *United States Deputy Surveyors*

Under their *Contract No.* 238 *dated* November 14 *1899.*

Survey commenced *189*

Survey completed *189*

BOOK A-293

INDEX DIAGRAM.

Township 26 S., *Range* 5 W.

6	5	4	3	2	1
7	8	9 217	10	11	12
		215		213	211
18	17	16 217	15	14	13
	216	215 216		212	
19	20	21	22	23	24
	216	214	213	212	211
30	29	28	27	26	25
	215	214	213	211	211
31	32	33	34	35	36

*Meanders Page*_____

Corrected Notes of Subdivision of T. 26 S., R. 5 W.

	East on a random line bet. secs. 25 and 36.
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect E. bdy. of Tp. 7 lks. S. of the cor. to secs. 25, 30, 31 and 36. heretofore described.
	Thence I run S. 89°57' W. on a true line bet. secs. 25 and 36.
40.04	1/4 sec. cor. heretofore described
80.08	The cor. of secs. 25, 26, 35 and 36. heretofore described.
	N. 89°57' E. on a random line bet. secs. 24 and 25.
40.00	Set temp. 1/4 sec. cor.
80.10	Intersect E. bdy. of Tp. 11 lks. S. of the cor. of secs. 19, 24, 25 and 30. heretofore described.
	Thence I run S. 89°52' W. on a true line, bet. secs. 24 and 25.
40.05	The 1/4 sec. cor. heretofore described.
80.10	The cor. to secs. 23, 24, 25 and 26. heretofore described.
	East on random line bet. secs. 12 and 13.
40.00	Set temp. 1/4 sec. cor.
79.95	Intersect E. bdy. of Tp. 5 lks. S. of the cor. to secs. 7, 12, 13 and 18. heretofore described.
	Thence I run S. 89°58' W. on a true line bet. secs. 12 and 13.
39.97½	1/4 sec. cor. heretofore described.
79.95	The cor. of secs. 11, 12, 13 and 14. heretofore described.
	East on a random line bet. secs. 26 and 35.

Corrected Notes of Subdivision of T. 26 S., R. 5 W.

40.00	Set temp. 1/4 sec. cor.
80.03	Intersect N. and S. line at the cor. of secs. 25, 26, 35 and 36. heretofore described. Thence I run West On a true line bet. secs. 26 and 35.
40.01½	1/4 sec. cor. heretofore described.
80.03	The cor. of secs. 26, 27, 34 and 35. heretofore described.
	East on a random line bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
80.02	Intersect N. and S. line 12 lks. N. of the cor. to secs. 23, 24, 25 and 26. heretofore described. Thence I run N. 89°55' W. On a true line bet. secs. 23 and 26.
40.01	1/4 sec. cor. heretofore described.
80.02	The cor. of secs. 22, 23, 26 and 27. heretofore described.
	S. 89°55' E. on a random line bet. secs. 14 and 23.
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect N. and S. line 12 lks. S. of the cor. to secs. 13, 14, 23 and 24. heretofore described. Thence I run West on a true line bet. secs. 14 and 23.
39.99	1/4 sec. cor. heretofore described.
79.98	The cor. of secs. 14, 15, 22 and 23.

heretofore described.

East on a random line
bet. secs. 11 and 14.
40.00 set temp. 1/4 sec. cor.
79.96 Intersect N. and S. line at the
cor. to secs. 11, 12, 13 and 14
heretofore described.
Thence I run
West
On a true line
bet. secs. 11 and 14.
39.98 1/4 sec. cor. heretofore described.
79.96 The cor. of secs. 10, 11, 14 and 15.
heretofore described.

East on a random line
bet. secs. 27 and 34.
40.00 set temp. 1/4 sec. cor.
80.06 Intersect N. and S. line 7 lks. N. of
the cor. to secs. 26, 27, 34 and 35
heretofore described. Thence I run
N. 89° 57' W.
On a true line
bet. secs. 27 and 34.
40.03 1/4 sec. cor. heretofore described.
80.06 The cor. of secs. 27, 28, 33 and 34.
heretofore described.

S. 89° 57' E. on a random line
bet. secs. 22 and 27.
40.00 set temp. 1/4 sec. cor.
80.00 Intersect N. and S. line 7 lks. S. of
the cor. to secs. 22, 23, 26 and 27.
heretofore described.
Thence I run

Corrected Notes of subdivision of T. 26 S., R. 5 W.

West
On a true line
bet. secs. 22 and 27.
40.00 The 1/4 sec. cor. heretofore described.
80.00 The cor. to secs. 21, 22, 27 and 28.
heretofore described.

East on a random line
bet. secs. 28 and 33.
40.00 set temp. 1/4 sec. cor.
80.11 Intersect N. and S. line 5 lks. S.
of the cor. to secs. 27, 28, 33, and 34.
heretofore described.
Thence I run
S. 89° 58' W.
On a true line
bet. secs. 28 and 33.
40.05 1/2 1/4 sec. cor. heretofore described.
80.11 The cor. of secs. 28, 29, 32 and 33.
heretofore described.

N. 89° 58' E. on a random line
bet. secs. 21 and 28.
40.00 set temp. 1/4 sec. cor.
80.04 Intersect N. and S. line 5 lks. S. of
the cor. of secs. 21, 22, 27 and 28.
heretofore described
Thence I run
West
on a true line
bet. secs. 21 and 28.
40.02 The 1/4 sec. cor. heretofore described.
80.04 The cor. to secs. 20, 21, 28 and 29.
heretofore described.

East on a random line

Corrected Notes of subdivision of T. 26 S., R. 5 W.

	bet. secs. 16 and 21.	
40.00	set temp. 1/4 sec. cor.	
80.04	Intersect N. and S. line 5 lks. N. of the cor. to secs. 15, 16, 21 and 22. heretofore described.	
	Thence I run N. 89°58' W. on a true line bet. secs. 16 and 21.	✓
40.02	1/4 sec. cor. heretofore described.	
80.04	The cor. of secs. 16, 17, 20 and 21. heretofore described.	
	S. 89°58' E. on a random line bet. secs. 9 and 16.	
40.00	set temp. 1/4 sec. cor.	
80.00	Intersect N. and S. line 5 lks. S. of the cor. to secs. 9, 10, 15 and 16. heretofore described.	
	Thence I run West on a true line bet. secs. 9 and 16	✓
40.00	The 1/4 sec. cor. heretofore described.	
80.00	The cor. to secs. 8, 9, 16 and 17. heretofore described.	
	East on a random line bet. secs. 29 and 32.	
40.00	set temp. 1/4 sec. cor.	
80.00	Intersect N. and S. line 3 lks. N. of the cor. to secs. 28, 29, 32 and 33. heretofore described.	
	Thence I run N. 89°59' W. on a true line bet. secs. 29 and 32.	✓
40.00	1/4 sec. cor. heretofore described.	
80.00	The cor. of secs. 29, 30, 31 and 32. heretofore described.	

Corrected Notes of subdivision of T. 26 S. R. 5 W.

S. 89°59' E. on a random line
bet. secs. 20 and 29.
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect N. and S. line 5 lks. S. of
the cor. to secs. 20, 21, 28 and 29.
heretofore described. Thence run
S. 89°59' W.
on a true line
bet. secs. 20 and 29.
40.03+ 1/4 sec. cor. heretofore described.
80.06 The cor. of secs. 19, 20, 29 and 30.
heretofore described.

N. 89°59' E.
On a random line
bet. secs. 17 and 20.
40.00 set temp. 1/4 sec. cor.
80.08 Intersect N. and S. line 3 lks. S of
the cor. to secs. 16, 17, 20 and 21.
heretofore described.
Thence run
S. 89°58' W. on a true line
bet. secs. 17 and 20.
40.04 1/4 sec. cor.
heretofore described.
80.08 The cor. of secs. 17, 18, 19 and 20.
heretofore described.

Bearing trees.

80.00 Cor. of secs. 15, 16, 21 and 22.
heretofore described.
A Cedar 6 ins. in diam. bears
S. 70° W. 135 lks. dist.
Marked T. 26 S R 5 W S 21 B T
Instead of cedar

24 ins. in diam. S. 10° W. 30 lks.

N. 0° 02' W. bet. secs. 15 and 16.

40.00 1/4 sec. Cor. heretofore described. Pinon 8 ins. in diam. bears S. 15° W. 15 lks. dist. marked 1/4 S. 16 B.T. instead of bearing S 85° W.

N. 0° 02' W. bet. secs. 9 and 10.

40.00 1/4 sec. Cor. heretofore described. A cedar 14 ins. in diam. bears S. 68° W. 102 lks dist. marked 1/4 S. 9 B.T. instead of Pinon 6 ins. in diam. S 65° E. 20 lks.

Hubert D Page
Harry Erwin.
U.S. Deputy Surveyors.

Subscribed & sworn before me this 16th day of February 1903

Henry R. Dickinson
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D Page, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B Blair United States Surveyor General for The State of Utah, bearing date of the 24th day of November, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for The State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional lines of Township 26 South Range 5 West

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

Hubert D Page
United States Deputy Surveyor.

Subscribed by said Hubert D Page, and sworn to before me this 21st day of April 1900.

Edward H Anderson
U S Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah April 21st 1900

The foregoing field notes of the corrected survey of the subdivisional lines of Township 26 South Range 5 West of the Salt Lake Base & Meridian, Utah

executed by Hubert D Page and Harry Erwin under their contract No. 232, dated November 24th, 1899, 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.

6—151

BLANK

PAGE

BLANK

PAGE

Filed Oct. 16. 1902. EBL

4—679.

4.

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

South and West Boundaries

of

Township No. 2 South Range No. 3 East

of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

under his Contract No. 2504, dated April 12, 1901

Survey commenced June 3, 1902

Survey completed June 7, 1902

S. Bdy.

5 31 46

W. Bdy.

6 20 40

BOOK A-293

NAMES AND DUTIES OF ASSISTANTS.

Edward L Jones Jr	Chairman
Willis B Boles	"
Edward L Jones Jr	Maundsman
Harold L Hobbs	"
Willis B Boles	Axeman
Frank Hyde Jr	"
Harold L Hobbs	Flagman

BOOK A-293

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Edward L Jones Jr and Willis B Bootes 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 South and West bdy of T 2S R 3E and South bdy of T 1S R 2 E

Edward L. Jones Jr., Chainman.

Willis B. Bootes, Chainman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

SAM RANEY NOTARY PUBLIC SALT LAKE COUNTY, UTAH SEAL

WE, Edward L Jones Jr. and Harold L Hobbs 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 South and West bdy of T 2S R 3E and South bdy of T 1S R 2 E

Edward L. Jones Jr, Moundman.

Harold L Hobbs, Moundman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

SAM RANEY NOTARY PUBLIC SALT LAKE COUNTY, UTAH SEAL

WE, Willis B Bootes and Frank Hyde 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 South and west bdy of T 2S R 3E and South bdy of T 1S R 2 E.

Willis B. Bootes, Axman.

Frank Hyde Jr., Axman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

SAM RANEY NOTARY PUBLIC SALT LAKE COUNTY, UTAH SEAL

I, Harold L Hobbs, 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 South and West bdy of T 2S R 3E and South bdy of T 1S R 2 E

Harold L Hobbs, Flagman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

SAM RANEY NOTARY PUBLIC SALT LAKE COUNTY, UTAH SEAL

6—151

South boundary of T. 2 S. R. 3 E.

Notes

Survey commenced June 3. 1902 and executed with a W. & L.E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 13, 1901

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

At my camp. near the N. E. cor. of secs. 27 T. 2 S. R. 3 E. latitude 40° 37' 15" N. longitude 111° 35' W. I set off 40° 37' N. on the lat. arc 22° 18' 30" N. on the decl. arc and at 4h 14m p.m. 7. m.t. determine with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 4.80 chs. N. of my station. —

At 9h 50m p.m. 6. m.t. I observed Polaris in accordance with Manual of Instructions and mark a point in the line thus determined on a plug driven in the ground 4.80 chs. N. of the instrument. —

Astron. 1. m.t. of obs. June 3.	9h 50m
U.C. Polaris June 2	20 38.8
Hour angle of Polaris at obs.	13 11.2
Subtract from	23 56.1
Time argument for Table 2	10 44.9
Azimuth of Polaris at obs.	0° 30' E.

June 3. 1902

June 4: at 6h 45m a.m. 7. m.t. I lay off the azimuth of Polaris 0° 30' to the west and mark the true

South boundary of T. 2 S. R. 3 E.

chains

Meridian lines determined by cutting a small grove in the stone at June 3
At 7h 10m a.m. I. mt.— I set off 40° 37' N on the Lat. arc 22° 23' N. on the Decl. arc and mark a point in the true meridian determined by the solar on the stone already at 4.80 chs N. of my station; and find by measurment as well as by plate angle that the solar apparatus by p.m. and a.m. observations define positions for true meridian respectively within about 1' of the true meridian determined by Polaris observation; therefor I conclude the adjustments of the instrument are satisfactory.—
The magnetic bearing of the true meridian at 7h 30m a.m. is N. 17° 25' W the angle then determined reduced by the table page 100 gives the mean mag. decl. 17° 19' E.—

I begin at the cor. of Tps. 2 and 3 S. R. 3 E. which is a post firmly set marked and witnessed as described by the surveyor general
Thence I run
West on a random line along S. bdy of Tp. 2 S. R. 3 E. setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs.; and at 31.76 chs. intersect E bdy of sec. 32. 2.41 chs. N. 0° 15' W. of the cor. of secs. 4-5-32 and 33 as properly reestablished by me this date and described under resurveys S. bdy. T. 2 S. R. 3 E. Book A1
Thence I run
East on a true line bet. secs. 4 and 33
Over mountainous land
Descending for undergrowth—

1.00 Spring branch 3 lks wide flows S. from spring 2 lks N.
1.90 North Fork of Little Cottonwood Creek 12 lks wide flows S 60° W. in bottom of gulch 30 ft. below cr.
Begin ascent
28.25 Top of spur runs N. 5° W. 400 ft. above creek.
Descending
34.50 Bottom of hollow draining N 10° W 70 ft. below spur
Ascending
37.16 Set a granite stone 18 x 9 x 8 ins. - 12 ins. in the

South boundary of T. 2 S. R. 3 E.

Chains	
	ground for 1/4 sec cor: marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
73.36	Top of ridge dividing Big and Little Cottonwoods course N.W. and S.E. 380 ft. above hollow
	Begin abrupt descent in rock ledges
77.16	Set a granite stone 30 x 11 x 6 ins. 24 ins. in a mound of stones 3 ft. base 2 ft. high on rocky bottom for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	Thin cor. stands 85 ft. below top of ridge
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber: a young growth of pine among large dry stumps of same
	Mountainous land 77.16 chs.—
	East bet. secs. 3 and 34
	Over mountainous land.
	Descending on rocky slope, in scattering timber
20.00	Enter bottom of hollow, bears N. and S 450 ft. below cor.
21.57	Stream 5 lks. wide flows N.
24.04	Stream 8 lks. wide flows N.: centre of upper Twin Lake about 10 chs. diam. bears N. about 14 chs.
25.00	Begin ascent course N. and S.
	Enter Timber course N. and S.
37.00	Leave timber course N.E. and S.W.
40.00	Set a granite stone 18 x 11 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	Lower Twin Lake about 10 chs. diam. bears N. about 25 chs.
45.00	Top of ridge runs N. 440 ft. above hollow.- descend
50.00	Enter timber course N.W. and S.E.
80.00	Set a granite stone 30 x 18 x 10 ins. 24 ins. in a mound of stones 2 ft. high 3 ft. base on rock bottom for cor. of secs. 2-3-34 and 35- marked with 2

South boundary of T. 2 S. R. 3 E.

chains	notches on E. and 4 notches W. edges from which a pine tree 9 ins. diam. bears S. 85° 58' E. 6 lks. dist. marked T. 3 S. R. 3 E. S. 2 B.T.
	No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. Pits impracticable
	This cor. stands 700 ft. below top of spur
	Land mountainous
	Soil rocky 4th rate
	Timber pine of good quallity
	Mountainous land 80.00 chs.
	June 4. 1902
	June 6: at 7h 5m a.m., l.m.t. I set off 40° 35' 30" N. on the lat. arc 22° 30' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 2-3-34 and 35
	Thence I run
	East bet. secs. 2 and 35
	Over mountainous land
	Descending on broken rocky slope, in timber
13.00	Descent becomes gradual course N and S
22.12	Stream 16 lks. wide flows N. in bottom of hollow 200 ft. below cor.; this stream is the main head of Big Cottonwood Creek and drains Lake Blanch, Lake Mary and one or two others located about a mile S. 20° W. Sec. 35 is dotted over with Cottages and Cabins Known as Brighton Summer Resort. - Ascending gradually
28.00	Old wood road bears N. and S.
40.00	Set a granite stone 18 × 8 × 7 ins. 12 ins. in the ground for. ¼ sec. cor. marked ¼ on N. face: from which
	A pine tree 12" diam. bears. N 29° 26' W. 79 lks. dist. marked ¼ S. 35 B.T.
	A pine tree 11 ins. diam. bears S 55° 7' W. 90 lks. dist. marked ¼ S 2 B.T.
	Raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
41.00	Top of spur runs N. 140 ft. above stream. - Descending
46.65	Stream 4 lks. wide flows N. in hollow 50 ft. deep

South boundary of T 2 S R 3 E.

Chains	
	Ascending
30.50	T. of spur runs N. 30 ft. high. - Descending
54.20	Stream flows N. 6 lks. wide. in hollow 3 ft. deep.
60.40	Stream 10 lks. side course N. 25° W. Elev. about 9500 ft.
	Begin ascent
80.00	Set a granite stone 18 x 15 x 5 inc. 12 inc. 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 tree 12 inc. diam. bears N 1° 40' E 25 lks. dist. marked T. 2 S R. 3 E. S. 36 B.T.
	An aspen tree 8 inc. diam. bears N. 47° 25' W. 31 lks. dist. marked T 2 S R 3 E S 36 B.T.
	A pine tree 13 inc. diam. bears S. 73° 20' W 24 lks. dist. marked T. 3 S R 3 E S 2 B.T.
	A pine tree 7 inc. diam. bears S. 33° 59' E 27 lks. dist. marked T 3 S R 3 E. S. 1 B.T.
	Thin cor. stands 20 ft. above hollow
	Land mountainous
	Soil gravely wash and barren rock 3rd and 4th rate
	Timber pine and aspen of good quality
	Mountainous land 8.00 chs. —
	East bet. secs. 1 and 36
	Over mountainous land
	Ascending steep slope, in timber
38.50	Summit of Wasatch Range course N. and S Elevation about 10.700 ft. - Sloping N. from Clayton Peak which is about 100 ft. higher. - This Peak is locally known as Mount Majestic
	U. S. T. St. a copper bolt set in granite boulder bears S. 14° 35' E.
	Begin abrupt descent, leave timber bears N. and S.
40.00	Set a granite stone 18 x 10 x 5 inc. 12 inc. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
48.00	Foot of steep slope bears N. and S. 300 ft. below summit
	Begin gradual descent in huge boulders
51.00	Bottom of hollow drains N. ascending gradually
54.00	Enter timber course N. and S

South boundary of T. 2 S. R. 3 E.

Chains	
55.50	Top of spur 50 ft. high runs N. – Descending gradually
73.90	Stream 10 lks. wide flows N. in hollow 100 ft. below spur. – Ascending
75.60	Top of spur runs N. 30 ft. high. – U.S.T.S. a copper bolt set in granite bowlder, bks. of Clayton Peak bears S. 63° 25' W. – Descending to
80.00	Intersect E. bdy. of Tp. 2 N. 1 chs. N. of cor. of Tps. 2 and 3 S. R 3 E., which in accordance with instructions I destroy, – and 5.66 chs. N. of the closing cor. of Tps. 2 and 3 S. R. 4 E. as heretofore described Set a granite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of Tps 2 and 3 S R 3 E. marked C.C. on W. face with 6 grooves on N. S. and W. faces from which A pine tree 8 ins. diam. bears S. 78° 30' W. 41 lks. dist. marked T. 3 S. R 3 E. S 1 B.T. A pine tree 10 ins. diam. bears N 40° 0' W. 19 lks. dist. marked T 2 S R 3 E S 36 B.T Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Land Mountainous Soil gravely wash W. of divide rocky and rock slide on E. side. – Timber pine and aspen of good quality Mountainous land 80.00 chs. June 5th: at this cor. I set off 22° 31' N. on the decl. arc and at 11h 58m a.m. l.m.t. observed the sun on the meridian. the resulting lat. is 40° 35' 30" N.
	From the 1/4 sec. cor. bet. secs. 5 and 32 as properly reestablished by me June 5 1902 and described in Book M. I run West. bet. secs. 5 and 32 Over mountainous land Ascending gradually on cliffs S. E. slope
4.50	Begin descent
7.05	Bottom of ravine 40 ft. deep drains S. 20° E. – ascend
8.50	Top of ravine: thence on gradual ascent

South boundary of T. 2 S. R. 3 E.

Chains	
31.00	Begin descent
32.40	Creek 2 lks. wide flows S 25° E in bottom of narrow ravine 40 ft. deep. - ascend
34.00	Top of ravine: thence on gradual ascent
40.00	Set a quartzite stone 24×10×8 ins. 18 ins. in the ground for cor. of secs. 5-6-31 and 32 marked with 5 notches on E. and 1 notch on W. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	This cor. stands 340 ft. above the ¼ sec. cor.
	Land mountainous
	Soil gravely and rocky 3rd rate
	No timber
	Mountainous land 40.00 chs. —
	West bet. secs. 6 and 31
	Over mountainous land
	Ascending on S.E. slope
6.30	Trail to head of South Fork bears N. and S. in hollow 20 ft. deep draining S. 20° E.
13.00	Begin abrupt ascent on rocky ledge
21.00	Top of ledge running S 215 ft. above cor. - Begin gradual descent on steep S. slope
38.20	Bottom of draw draining S. 25° W. 130 ft. below ledge. - Begin abrupt ascent in slide and brushes.
40.00	Set a quartzite stone 18×10×6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
76.40	Top of divide between Little Cottonwood and Big Cottonwood. 540 ft. above hollow, course N. 60° E. and S. 60° W. —
	Begin abrupt descent in slide rock
78.16	Set temp. cor. of Tps. 2 and 3 S. Rs 2 and 3 E.
	June 5, 1902
	June 7: Having surveyed the W. bdy of this Tp. and established the permanent cor. of Tps 2 and 3 S. Rs 2 and 3 E. I destroy above temp. cor. and continue S. bdy. as above to
81.30	The cor. of Tps 2 and 3 S. Rs 2 and 3 E. as described

West boundary of T. 2 S. R. 3 E.

Chains	
	elsewhere in this book in connection with survey of W. bdy. of Tp.
	This cor. stands 130 ft. below divide
	Land mountainous
	Soil rocky 4th rate
	No timber
	Mountainous land 8.1.30 Chs. —
	June 7, 1902
	June 6: At 7h 12m a.m. I set off 40° 35' 30" N. on the lat. are 22° 37' N. on the decl. arc and determine a true meridian with the Polar at the limit. cor. of T. 2 and 3 S. R. 2 and 3 E.
	Thence I run
	North on a random line along the W. bdy of T. 2 S. R. 3 E. setting limit. 1/4 sec. and sec. cors. at intervals of 40.00 chs. and at 500.40 chs. intersect the S. bdy. of T. 1 S. R. 3 E. 3.14 chs. E. of cor. of Tps. 1 and 2 S. R. 2 and 3 E. which is a stone firmly set marked and witnessed as described by the surveyor general. — The falling being beyond the closing limit I begin at above described cor.
	Thence I run South bet. secs 1 & 6
	Over mountainous land
	Ascending abruptly, in timber
14.00	Top of spur runs N. 75° E. 290 ft. above cor. — Descend
18.00	Bottom of gulch drains N. 60° E. 90 ft. below spur
	Thence in bottom of gulch, gradual ascent to
30.00	Begin abrupt ascent course E. and W.
37.75	Top of spur runs E. 230 ft. above gulch — Descend
47.30	Bottom of gulch drains E. 125 ft. below spur
	Ascending abruptly
58.76	Top of divide between Mill Creek and Big Cottonwood Creek. Course about E. and W. 240 ft. above gulch
	Begin abrupt descent — Leave Timber bears E. and W.
60.40	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
62.06	Enter aspen brake bears E. and W.
100.40	Set a quartzite stone 17 x 12 x 11 ins. 11 ins. in the

West boundary of T. 2 S. R. 3 E.

Chains	
	ground for cor. of secs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges. from which
	An aspen tree 6 inn. diam. bears S. 55° 45' W. 19 lks. dist. marked T. 2 S. R 2 E. S 12 B.T.
	An ashen tree 6 inn. diam. bears N. 35° 40' W. 8 lks. dist. marked T. 2 S. R. 2 E. S. 1 B.T.
	An ashen tree 5 inn. diam. bears N. 16° 45' E. 17 lks. dist. marked T. 2 S. R. 3 E. S. 6 B.T.
	An ashen tree 4 inn. diam. bears S. 51° 30' E. 25 lks. dist. marked T. 2 S. R. 3 E. S. 7 B.T.
	This cor. stands 800 ft. below top of divide
	Land Mountainous
	Soil gravely and rocky 3rd and 4th rate —
	Timber pine and aspen of fair quality on N. side of divide on S. side aspen brake and a few ashen trees of fair size. —
	Mountainous land 100.40 chs. —
	June 7: The weather being cloudy during the morn hours I was unable to observe the sun on the meridian. —
	South - bet. secs. 7 and 12
	Over mountainous land
	Descending in aspen brake and timber
1.30	Bottom of hollow drains S. 60° E.
	Begin gradual ascent on E. slope
7.00	Top of spur runs S. 70° E. 60 ft. high. - Descend
27.75	Stream 6 lks. wide flows S. 20° W. in bottom of gulch 280 ft. below spur. - ascend
38.00	Top of spur runs W. 90 ft. high. - Descending
40.00	Set a slate stone 18 x 10 x 5 inn. 12 inn. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
78.90	Same stream 6 lks. wide course S.E. in narrow gulch 400 ft. below spur. - Begin ascent
80.00	Set a limestone 18 x 9 x 7 inn. 12 inn. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges: from which A pine tree 5 inn. diam. bears S. 20° 0' E. 20 lks. dist.

West boundary of T. 2 S. R. 3 E.

chains	T. 2 S. R. 3 E. S. 18 B. T.
	No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. Pits impracticable
	Land mountainous
	Soil gravelly and rocky 3rd rate
	Timber, a few scattering pine and aspen trees
	Dense brake and undergrowth —
	Mountainous land 80.00 chs. —
	June 6. 1902
	June 7: at 7h 10m a.m. I.m.t. I set off 40° 39' N. on the lat. arc 22° 43' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 7-12-13 and 18
	Runs S.
	South bet. secs. 13 and 18
	Over mountainous land
	Ascending in dense undergrowth and scattering timber
5.00	Top of spur runs E. 90 ft. above cor.
	Begin abrupt descent
15.58	County road bears E. and W. in bottom of Big Cottonwood Canon 200 ft. below spur
16.05	Big Cottonwood Creek 36 lks. wide; swift current clear, good water flows W.
18.00	Begin ascent on cliffs broken slope
26.20	Top of spur runs N. 75° W. 130 ft. above creek
	Begin gradual descent
33.70	Bottom of hollow 50 ft. deep drains N. 5° W.
	Begin abrupt ascent
40.00	Set a dark porphyry stone 15×10×8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
80.00	Set a limestone 18×8×7 ins. 12 ins. in the ground for cor. of secs. 13-18-19 and 24 marked with 3 notches on N. and 3 notches on S. edges from which An aspen tree 4 ins. diam. bears S. 41° 57' W. 19 lks. dist. marked T. 2 S. R. 2 E. S. 24 B. T.
	An aspen tree 4 ins. diam. bears N. 66° 35' W. 52 lks.

West Boundary of T. 2 S. R. 3 E.

Chains	
	dist. marked T. 2 S. R. 2 E. S. 13 B.T.
	An aspen tree 4 in. diam. bears N 19° 24' E 18 lks dist. marked T 2 S R 3 E S 18 B.T.
	An aspen tree 4 in. diam. bears S 30° 1' E 9 lks dist. marked T. 2 S. R. 3 E. S. 19 B.T.
	Thin cov. stands 780 ft. above hollow
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate —
	Timber pine and aspen scattering
	Dense aspen brake and brush
	Mountainous land 80.00 chs. —
	South bd. secs. 19 and 24
	Over mountainous land
	Ascending, in scattering timber
1.50	Timber becomes fairly heavy growth of pine
5.66	Old wood road runs N. 60° E. and S. 60° W.
8.40	Top of spur runs N. 36° E. 140 ft. above cor.
	Thence on slope rocky E. slope; gradual descent
21.00	Timber becomes thin and scattering, ascend
37.75	Top of spur runs E. 670 ft. above cor.
	Begin gradual descent on rocky slope E.
40.00	A stationary limestone ledge 24 x 10 in. above ground for 1/4 sec. cor. I mark 4 on E. face being the only part exposed; from which
	A pine tree 36 in. diam. bears S. 6° 45' E. 30 lks. dist. marked 1/4 S 19 B.T. — No other trees within limits
	Raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
80.00	Set a limestone 18 x 9 x 8 in. 12 in. in the ground for cor. of secs. 19-24-25 and 30 marked with 4 notches on N. and 2 notches on S. edges from which
	A pine tree 6 in. diam. bears N. 13° 40' W. 3 lks. dist. marked T 2 S R 2 E S 24 B.T.
	A pine tree 4 in. diam. bears S 55° 6' W. 21 lks. dist. marked T 2 S R 2 E. S 25 B.T.
	An aspen tree 4 in. diam. bears N. 30° 20' E. 12 lks. dist. marked T 2 S R 3 E. S. 19 B.T.
	An aspen tree 4 in. diam. bears S. 55° 08' E 28 lks. dist. marked T 2 S R 3 E S 30 B.T.

West boundary of T. 2 S. R. 3 S.

Chains	This cor. stands 300 ft. below spur
	Land mountainous
	Soil rocky and gravely 4th rate
	Timber pine and aspen
	Mountainous land 8000 chs
	June 7: At this cor. I set off 22°44' N. on the decl arc and at 11h 58m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 37' N.
	South bet. secs. 25 and 30
	Over mountainous land
	Descending gradually on broken S.E. slope
	In scattering timber
8.50	Bottom of ravine drains E. 110 ft. below cor.
	Begin gradual ascent
12.40	Top of spur 100 ft. above ravine.—
	Thence over rolling slope and gradual ascent
35.60	Top of slope and spur running N.E.
	Descend
37.40	Stream 2 lks wide flows N.E. in hollow 30 ft. deep.
	Ascending to
40.00	Set a quartzite stone 18×8×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pine tree 5 ins. diam. bears S. 73° 7' E. 67 lks dist marked 1/4 S. 30 B.T.— No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.—
42.50	A cabin bears E. about 4 chs.— vacant, ownership not known
55.00	Top of spur runs N. 60° E. 200 ft. above stream
	Thence over broken slope
74.95	Bottom of hollow drains E. 60 ft. deep. Ascend
80.00	Set a quartzite stone 18×9×8 ins. 12 ins. in the ground for cor. of secs. 25-30-31 and 36 marked with 5 notches on N. and 1 notch on S. edges from which
	A pine tree 5 ins. diam. bears S. 63° 44' W. 20 lks dist. marked T. 2 S. R. 2 E. S. 36 B.T.
	A pine tree 5 ins. diam. bears N. 18° 20' W. 15 lks. dist. marked T. 2 S. R. 2 E. S. 25 B.T.— No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high W. of

West boundary of T. 2 S. R. 3 E.

chains	
	cor. Pits impracticable
	This cor. stands on bk. of river 50 ft. high
	Land mountainous
	Soil gravelly and rocky 3rd rate
	Timber pine and ashin scattering
	Mountainous land 80.00 chs. —
	South bet. secs. 31 and 36.
	Over mountainous land.
	Ascending gradually on rolling slope.
40.00	Set a dark blackish 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 stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
64.06	Stream 4 lks. wide flows N. 75° E. on rocky bottom
74.00	Enter rock slide and climb ascent course E. and W.
80.00	Set a slate stone 26 x 8 x 6 ins. 20 ins. in the ground for cor. of Tps. 2 and 3 S. R. 2 and 3 E. marked with 6 notches on each edge from which: A mark + on face of stationary ledge 4 ft. high 6 ft. long facing N. 65° W. bears N. 39° 17' E. 57 lks. dist. No other bearing objects available. Raised a mound of stones 3 ft. base 2 ft. high S. of cor. Pits impracticable. This cor. stands 550 ft. above cor. of secs. 25-30-31 and 36.
	Land mountainous
	Soil rocky and gravelly 4th rate
	No timber
	Mountainous land 80.00 chs. —
	June 7, 1902

Soulle and West boundaries T. 2 S. R. 3 E.

Boundaries of T. 2 S. R. 3 E.

Latitudes Departures and closing errors

Line Designated	True bearing	Distance chs.	Latitudes N chs.	Latitudes S chs.	Departures E chs.	Departures W chs.
West boundary	South -	500.40		500.40		
South "	East	478.46			478.46	
East "	North -	77.59	77.59			
" "	N 0° 6' 4" W	91.62	91.61			1.44
" "	N 0° 3' E.	38.34	38.34		0.03	
" "	N. 2° 27' E	43.78	43.74		1.87	
" "	N 2° 20' E	40.45	40.42		1.64	
" "	N 3° 41' E	40.91	40.83		2.63	
" "	N 0° 57' E	40.14	40.14		0.65	
" "	N. 0° 48' E.	85.00	84.96		2.67	
" "	North -	40.00	40.00			
North "	N. 89° 48' W	82.90	0.29			82.90
" "	N. 89° 42' W	165.56	0.86			165.56
" "	N. 89° 43' W.	167.00	0.83			167.00
" "	West	70.35				70.35
Convergency						0.62
Totals			499.61	500.40 499.61	487.95 487.87	487.87
Errors				0.79	0.08	

This township is all mountainous land very rough and broken and having a high elevation; it is well watered and contains some bunches of good timber. - The soil is as a rule fertile and the township is valuable for summer pastures, and should be subdivided. —

Andrew P Hanson
U.S. Dep. Surveyor

BLANK

PAGE

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., 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 by 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

.....

161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of 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 submit to 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, Sept. 17-1901

The foregoing field notes of the survey of The South and West Boundaries of Township 2 South, Range 3 East of the Salt Lake Base & Meridian, Utah

executed by Andrew P. Hansen under his contract No. 244, dated April 12 1901, 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 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 office.

_____
United States Surveyor Ge

6—151

BLANK

PAGE

BLANK

PAGE

Filed Oct. 16. 1907. [illegible] 243

4—679.

B. N.

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 2 South Range No. 3 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 244, dated April 12, 1901

Survey commenced June 12, 1902

Survey completed June 25, 1902

6—161

	M.	Chs.	Lnks.	
[illegible]	45	22	95	95
[illegible]				
[illegible]	1	18	04	

[illegible] M. McCormick [illegible] 1 31 03

BOOK A-293

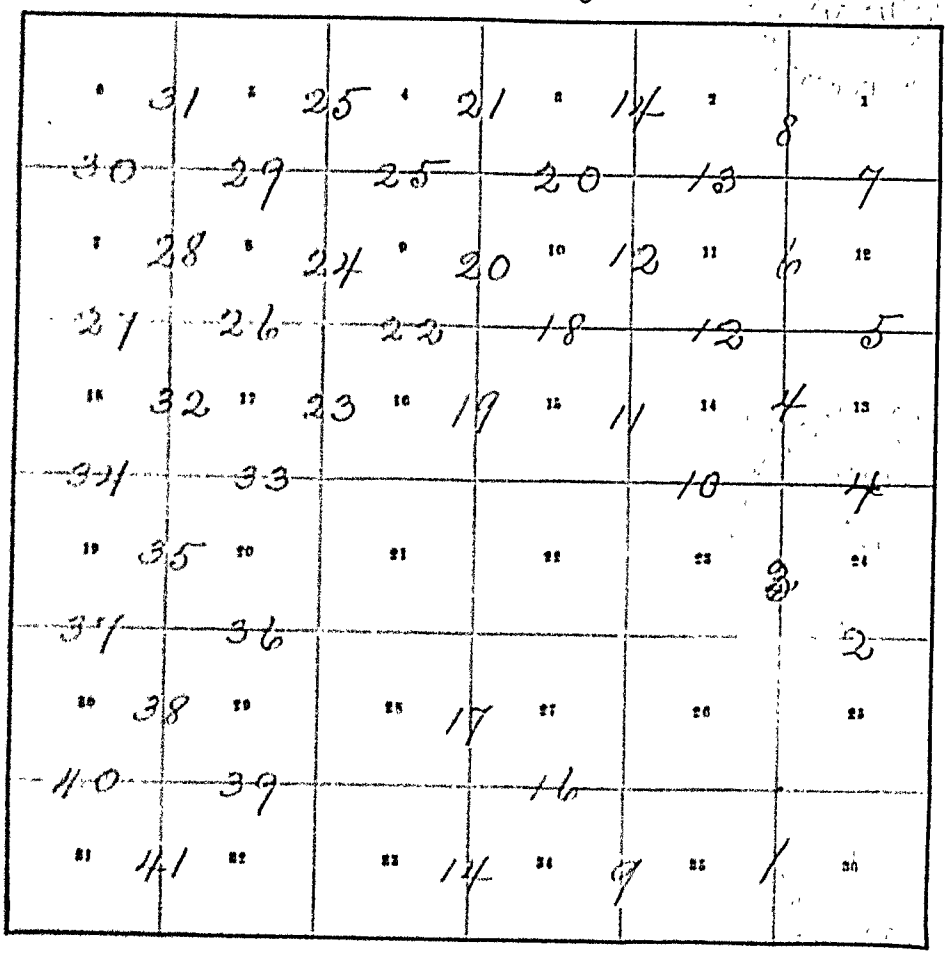
NAMES AND DUTIES OF ASSISTANTS.

Edward L Jones Jr	Chainman
Willis B Boules	"
Edward L Jones Jr	Rodman
Harold L Dobbs	"
Willis B Boules	Axeman
Frank Hyde Jr	"
Harold L Dobbs	Flagman

BOOK A-293

INDEX DIAGRAM.

Township 2 S., *Range* 3 E.



Meanders Page.....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, Edward L Jones Jr. and Willis B Bootes 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; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey Subdivision lines of Tp. 2 S R 3 E and Tp. 1 S R 2 E.

Edward L. Jones Jr., Chainm

Willis B Bootes, Chainm

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

WE, Edward L Jones Jr. and Harold L Hobbs do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the surve Subdivision lines of Tp. 2 S R 3 E and Tp. 1 S R 2 E.

Edward L Jones Jr., Moundr

Harold L Hobbs, Moundr

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

WE, Willis B Bootes and Frank Hyde Jr. do solemnly swear that we will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given us, to the best of our skill and ability, in the surv Subdivision lines of Tp. 2 S R 3 E and Tp. 1 S. R. 2 E.

Willis B Bootes, Ax

Frank Hyde Jr., Ax

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

I, Harold L Hobbs, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, survey of Subdivision lines of Tp. 2 S. R. 3 E. and Tp. 1 S R 2 E.

Harold L Hobbs, Fla

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

Subdivision of T 2 S R 3 E.

Chains | Survey commenced June 12, 1902 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs —
The instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the surveyor general for Utah, April 13, 1901
June 12. I return to the meridian established June 4 from Polaris, at my camp near the N. E. cor. of sec. 27 T. 2 S. R. 3 E. as described at the beginning of survey of S. bdy of this Tp. Book L reference to which is hereby made. - At 7h 12m A.m., l.m.t. I set off 40° 37' 15" N on the lat. arc 23° 8' 30" N. on the decl. arc and test the adjustments of my solar, finding it gives the same meridian as before and adjustments are satisfactory, wherefor I consider it unnecessary to make further tests at this time. —

I begin a the cor. of secs. 1-2-35 and 36 on S. bdy. of T. 2 S. R. 3 E. as heretofore described
Thence I run
N 0° 1' W on a random line bet. secs. 35 and 36
40.00 Set temp. 1/4 sec. cor.
78.36 Intersect E. and W. line 18 lks W. of cor. of secs. 25 26-35 and 36 as reestablished by me this day and described under resurveys of subdivision lines of this Tp. Book O.
Thence I run
S. 0° 7' W. on a true line bet. secs. 35 and 36
Over mountainous land
Ascending through timber
17.85 Top of spur runs W 300 ft. above cor. - Descend
32.50 Enter bottom of gulch course N. 60° W 320 lks. below spur
36.10 Stream 5 lks. wide flows N. 65° W.
38.20 Begin ascent, bears N 60° W. - Leave gulch

Subdivision of T 2 S R 3 E

Chains	
40.00	Set a porphyry stone 18×9×5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W face from which
	A pine tree 9 ins. diam. bears N 30°24' W 54 lks. dist. marked 1/4 S.35 B.T.
	A pine tree 6 ins. diam. bears S 42°13' E 55 lks. dist. marked 1/4 S 36 B.T.
58.30	Top of spur runs W. 350 ft. above gulch.
	Descending on S.W. Slope
78.36	The cor. of secs. 1-2-35 and 36
	This cor. stands 150 ft. below spur
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine and ashen of good quality
	Mountainous land 78.36 chs.
	From the cor. of secs. 23-24-25 and 26 as reestablished by me this day and described under resurveys of subdivision lines of this Tp "Book O" I run
	East on a random line bet. secs. 24 and 25
40.00	Set temp 1/4 sec. cor.
78.85	Intersect E. bdy. of Tp. 11.86 chs. S 0°54' E of cor. of secs. 24 and 25 as heretofore described
	Set a quartzite stone 18×8×6 ins. 12 ins. in the ground for closing cor. of secs 24 and 25 marked C.C. on W. face with 2 groves on S, and 4 groves on N. faces: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable. -
	And destroy markings on old cor. of secs 24 and 25
	Pertaining to secs. 24 and 25
	Thence I run
	West on a true line bet. secs. 24 and 25
	Over mountainous land
	Ascending abruptly
6.90	Top of ridge bears N.E. and S.W. 200 ft. above cor.
	Descending in head of gulch
37.00	Bottom of slope at head of gulch draining N.E. 150 ft. below ridge. -
	Begin gradual ascent on N.E. slope
38.85	Set a limestone 18×8×7 ins. 12 ins. in the ground

Subdivision of T. 2 S. R. 3 E.

Chains	for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable.—
56.00	Summit of Wasatch Range bears N.W. and S.E. 320 ft. above gulch.—
58.00	Descending gradually on S.W. slope
75.20	Old road bears N.W. and S.E.
78.85	The cor. of secs. 23-24-25 and 26
	This cor. stands 150 ft below divide or summit
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	No timber.—
	Mountainous land 78.85 chs.—
	June 12, 1902
	June 13: At 7h 5m a.m., 1 m.t. I set off 40° 37' N. on the lat. arc 23° 12' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 23-24-25 and 26
	Thence I run
	North bet. secs. 23 and 24; on sectional guide meridian
	Over mountainous land
	Ascending abruptly
1.90	Old road bears E. and W.
7.00	Top of spur runs W. 150 ft. above cor.
	Begin gradual descent on N.W. slope
24.00	Head of hollow drains W. 100 ft. below spur.—
	Ascending
40.00	Set a slatestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.—
	Pits impracticable
42.25	Summit of Wasatch Range bears N.W. and S.E. 250 ft. above hollow and about 10,500 ft. elevation
43.00	Begin abrupt descent.— Enter scattering timber
70.00	Enter small flat in head of gulch draining N. 30° E 700 ft below summit.— Thence on gradual descent
	Leave timber
80.00	Set a slatestone 24 x 8 x 6 ins. 18 ins. in the ground for cor. of secs. 13-14-23 and 24 marked with 1 notch on E. and 3 notches on S. edges; raised a mound of stones 2 ft.

Chain	base 1½ ft. high W. of cor. Pile impracticable
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber pine small and scattering
	Mountainous land 80.00 chs. —
	Knowing from surveys already made I can not close on E. bdy. within limit, I run
	East bet. secs. 13 and 24
	Over mountainous land
	On bottom of gulch, scattering brush and timber
15.00	Begin abrupt ascent course N.E. and S.W.
27.00	Top of sharp spur runs N. 15° E. 280 ft. above gulch
	Begin abrupt descent. — Leave timber
40.00	Set a plate stone 18×9×5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pile impracticable
42.00	Enter bottom of wide open gulch draining N. 350 ft. below spur
	Enter timber course N. and S. and descend gradually
75.00	Leave timber course N. and S.
80.16	Intersect E. bdy. of Tp. 13.88 chs. S. 2° 27' W. of cor. of secs. 13 and 24, as heretofore described
	Set a sandstone 18×11×4 ins. 12 ins. in the ground for closing cor. of secs. 13 and 24 marked C. C. on W. face with 3 grooves on S. and N. faces; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pile impracticable
	And obliterate all markings from old cor. of secs. 13 and 24 pertaining to secs. 13 and 24
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber pine and aspen mainly scattering
	Mountainous land 80.16 chs. —
	June 13: at this cor. I set off 23° 12' N. on the decl. arc and at 12h m., 2. m.t. observe the sun on the meridian: the resulting lat. is 40° 38' N.
1	From the cor. of secs 13-14-23 and 24 I run
	North bet. secs. 13 and 14
	Over mountainous land
2.00	Leave bottom of gulch and begin ascent course N.E. and S.W.

Subdivision of T. 2. S. R. 3 E.

Chains	
	Enter scattering timber
40.00	Set a sandstone 17 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which An aspen tree 4 ins. diam. bears S. 60° 57' W. 11 lks. dist. marked 1/4 S 14 B.T. An aspen tree 5 ins. diam. bears N 73° 50' E 19 lks. dist. marked 1/4 S. 13 B.T.
49.50	Top of spur runs N 60° E 300 ft. above gulch Begin descent on rolling surface
64.75	Dry wash drains N. 25° E 230 ft. below spur Along bottom of gulch, gradual descent to
80.00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 11-12-13 and 14 marked with 1 notch on E. and 4 notches on S. edges from which An aspen tree 3 ins. diam. bears N 57° 40' E 38 lks. dist. marked T. 2 S. R. 3 E. S 12 B.T. A pine tree 5 ins. diam. bears N 29° 58' W. 9 lks. dist. marked T 2 S R 3 E S 11 B.T. A pine tree 9 ins. diam. bears S 56° 15' E. 53 lks. dist. marked T 2 S R 3 E. S 13. B.T. A pine tree 8 ins. diam. bears S 20° 4' W. 51 lks. dist. marked T 2 S R 3 E S 14 B.T. Land mountainous Soil gravels and rocky 3rd rate Timber pine and aspen rather scattering growth Mountainous land 80.00 chs
	Knowing from surveys already run I can not close on E. bdy. of Tp within limit I run East bet. secs. 12 and 13 Over mountainous land Descending gradually, in timber and bottom of gulch
3.20	Dry wash drains N.
4.50	Begin ascent course N. and S.
38.00	Top of spur runs N. 20° E. 300 ft. above gulch Begin descent on rolling surface
40.00	Set a sandstone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
76.92	Snyder Creek 6 lks. wide flows N. in bottom of gulch 500 ft. below spur

Subdivision of T. 2 S. R. 3 E.

chains	
	Ascending to
84.22	Intersect E. bdy. of Tp. 15.44 chs. S. 3° 41' W. of cor of secs. 12 and 13 as heretofore described
	Set a sandstone 18 x 11 x 8 ins. 12 ins. in the ground for closing cor. of secs. 12 and 13 marked C.C. on W. face with 2 groves on N. and 4 groves on S. faces:
	from which
	An aspen tree 6 ins. diam. bears S. 70° 45' W. 17 lks. dist. marked T 2 S R 3 E S 13 B.T.
	An aspen tree 5 ins. diam. bears N 47° 35' W. 13 lks. dist. marked T 2 S R 3 E. S 12 B.T.
	I obliterate markings on old cor. of secs 12 and 13 pertaining to secs. 12 and 13
	This cor. stands 100 ft. above creek
	Land mountainous
	Soil gravely wash 3rd rate
	Timber aspen of small size and dense growth and scattering pine
	Mountainous land on 84.22 chs.
	June 13, 1902
	June 14: at 7h 18m a.m., l.m.t. I set off 40° 39' N. on the lat. arc 23° 15' 30" N. on the decl arc, and determine with the solar a true meridian at the cor. of secs. 11-12-13 and 14
	Thence I run
	North bet. secs. 11 and 12
	Over mountainous land
	Descending gradually, in scattering timber
9.00	Dry wash drains N. 20° W. 50 ft. below cor.
10.50	Ascending on S.W. slope
27.00	Top of spur runs W. 100 ft. above wash
	Begin descent
34.00	Spring branch 4 lks. wide flows N. 10° E. at 2 chs below spring
37.75	Stream 5 lks. wide flows N.E. in bottom of gulch 130 ft. below spur. - Ascend
40.00	Set a red sandstone 18 x 7 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
50.00	Top of spur runs N. 60° E 90 ft. above stream
	Begin descent on rolling slope to
78.20	Dry wash in bottom of hollow drains N.E. 260 ft. below

Subdivision of T.2 S.R.3 E.

Chains	
	spur. — ascending to
80,00	Set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 1-2-11 and 12 marked with 1 notch on E. and 5 notches on S edges from which
	An ashen tree 5 ins. diam. bears S. 3°10' W. 34 lks. dist. marked T. 2 S. R. 3 E. S. 11 B.T.
	An aspen tree 4 ins. diam. bears N 62°45' W. 27 lks dist. marked T 2 S R 3 E S 2 B.T.
	An ashen tree 4 ins. diam bears. S 73°45' E. 48 lks. dist. marked T. 2 S. R. 3 E. S. 12 B.T.
	An aspen tree 4 ins. diam. bears N. 36°4' E. 64 lks. dist. marked T. 2 S. R. 3 E. S 1 B.T.
	Land mountainous
	Soil gravely 3rd rate —
	Timber, aspen of small size and scattering pine
	Mountainous land 80 ch.
	Knowing from surveys already run I can not close on E bdy. of Tp. within the limit I run
	East bet. secs. 1 and 12
	Over mountainous land
	Descending, in timber
2,60	Dry wash drains N. E. in hollow 35 ft. below cor
	Ascending in broken slope
30,00	Top of spur runs N. E. 200 ft. above hollow
	Begin descent on rolling surface
40,00	Set a sandstone 17 x 9 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable. —
56,90	Stream 5 lks. wide flows N. 35° E. in bottom of gulch 300 ft. below spur. — ascending
63,50	Top of spur runs N. 15° E. 120 ft. high. — Descending
69,50	Snyder Creek 6 lks wide in bottom of narrow gulch course N. 140 ft. below spur. — ascend
75,00	Top of spur runs N.W. 70 ft. high. — Descending to
83,05	Bottom of hollow and wash drains N.W. 60 ft. deep.
	Ascending.
86,60	Intersect E. bdy. of Tp. 16.52 chs. S 1°48' W. of cor. of secs. 1 and 12 as heretofore described. —
	Set a sandstone 18 x 9 x 7 ins. 12 ins. in the ground

Subdivision of T 2 S R 3 E

Chains	for closing cor of secs. 1 and 12 marked C.C. on W. face with 1 grove on N. and 5 groves on S. faces: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable And obliterate all markings on the cor of secs 1 and 12 pertaining to secs. 1 and 12 Land mountainous Soil gravely wash and bowlders 3rd rate Timber aspen of small size and dense growth and a few pine scattering. Mountainous land 86.60 chs. June 14: The weather being cloudy during the noon hour I was unable to observe the sun on the meridian
	From the cor. of secs. 1-2-11 and 12 I run North on a random line bet. secs. 1 and 2.
40.00	Set temp. 1/4 sec. cor.
100.70	Intersect N. bdy. of Tp. 5.60 chs N. 89° 42' W. of cor. of secs. 1-2-35 and 36 as heretofore described Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for closing cor. of secs. 1 and 2 marked C.C. on S. face with 1 grove on E and 5 groves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. Pits impracticable And obliterate all markings from cor. of secs. 1-2-35 and 36 pertaining to secs. 1 and 2 Thence I run South on a true line bet. secs. 1 and 2 Over mountainous land Ascending, in scattering timber and undergrowth
4.00	Top of ridge bears N. 75° W and E.
6.00	Descending on broken stone
27.30	Stream 4 chs. wide flows S. 75° E. in bottom of gulch 300 ft. below ridge. — ascending
48.25	Top of spur runs E. 270 ft. above gulch Descending
60.70	Set a limestone 17 x 8 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Subdivision of T. 2 S R 3 E

chains	
75,85	Stream 5 lks wide in bottom of gulch 200 ft. below spur course N. 65° E. – ascend
93,00	Top. of spur runs N. E. 150 ft. above gulch Descending
100,70	The cor. of secs. 1-2-11 and 12
	This cor. stands 70 ft. below spur
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber, aspen of small size and scattering pine and mountain mahogany
	Dense brake and undergrowth –
	Mountainous land 100.70 chs. – June 14. 1902

June 15: At 7h 20m a.m., l.m.t. I set off 40° 35' 30" N. on the lat. arc 23° 19' N. on the decl. arc and determine with the solar a true meridian at the cor. of secs. 2-3-34 and 35 on S. bdy. of Tp.

Thence I run

N. 0° 1' W. on a random line bet. secs. 34 and 35 –

39,28 The 1/4 sec. cor. reestablished by me this day and described under resurveys of subdivision lines this Tp. "Book O" bears E. 90 lks.

Thence I run

S 0° 1' E on a true line bet. secs. 34 and 35 –

Over mountainous land

Ascending, in dead timber and undergrowth –

3,00 Top. of spur runs E. 50 ft. above cor.

Begin gradual descent to

12,60 Stream 12 lks. wide flows N. 75° E. in hollow 40 ft. deep. Ascending

17,30 Top of spur runs N. 75° E. 60 ft. high. – Descending

22,80 Stream 4 lks. wide flows N. 60° E. in hollow 90 ft. deep – Ascending

25,70 Enter granite cliffs bears E. and W.

39.28 Intersect S. bdy. of Tp. 90 lks E. of cor. of secs. 2-3 34 and 35 as heretofore described

Set a granite stone 18 × 8 × 6 ins. 12 ins in the ground for closing cor. of secs. 34 and 35 marked C.C. on N. face with 2 groves on E and 4 groves on W. faces: raised a mound of stones 2 ft. base 1½ ft. high

Subdivision of T. 2 S. R 3 E.

Chains	
	N. of cor. Pits impracticable. and destroy marks on cor. of secs. 2-3-34 and 35 referring to secs. 34 and 35
	This cor. stands 210 ft. above hollow
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber, dead, fallen pine and a few pine trees standing. — Dense brush in patches
	Mountainous land 39,28 chs. —
	From the cor. of secs. 14-15-22 and 23 as reestablished by me this day and described under resurveys of subdivisions of this Tp. "Book O." I run
	S 89° 47' E on a random line bet. secs. 14 and 23.
40,00	Set temp. 1/4 sec. cor.
79,84	Intersect N. and S. line 50 lks. S of cor. of secs. 13-14-23 and 24
	Thence I run
	S. 89° 52' W. on a true line bet. secs. 14 and 23
	Over mountainous land
1,00	Begin abrupt ascent in timber course N.E and S.
30,00	Summit of Wasatch Range bears N. 20 W. and S. 20° E.
	770 ft. above cor. — Descend
	Leave timber bears N. 20° W. and S. 20° E.
39,92	Set a slatestone 18 × 7 × 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	An aspen tree 6 ins. diam. bears S 7° 44' E 49 lks. dist. marked 1/4 S 23 B.T
	An aspen tree 6 ins. diam. bears N 51° 0' W. 69 lks. dist. marked 1/4 S. 14 B.T.
40,30	Enter timber bears N. W. and S. E. —
48,50	Leave timber bears N. and S.
79,10	Enter timber
79,84	The cor. of secs. 14-15-22 and 23
	This cor. stands 580 ft. below summit of range
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine and aspen mainly scattering
	Mountainous land 79,84 chs. —
	June 15, 1902
	June 16: at 7h 18m a.m. l.m.t. I set off 40° 38' N. on the lat. arc 23° 21' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs.

Subdivision of T. 2 S. R. 3 E.

Chains	14-15-22 and 23
	Thence I run
	N. 0° 1' W. bet. secs. 14 and 15
	Over mountainous land
	Ascending, in timber
0.50	Leave timber course E. and W.
5.00	Top of Spur sum W. 80 ft. above cor. Descend
	Enter timber bears E. and W.
27.80	Dry wash in bottom of hollow drains W. 260 ft. below spur — Ascending
40.00	Set a quartzite stone 18×11×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	An aspen tree 4 ins. diam. bears S. 70° 5' E. 18 lks. dist. marked 1/4 S. 14 B.T.
	An aspen tree 5 ins. diam bears N 64° 15' W. 142 lks. dist. marked 1/4 S. 15 B.T.
73.50	Summit of Wasatch Range bears N.W. and S.E.
	730 ft. above hollow. — Leave timber
	Begin abrupt descent
78.00	Enter timber course N.W. and S.E.
80.00	Set a sandstone 26×9×6 ins. 20 ins. in the ground for cor. of secs. 10-11-14 and 15 marked with 2 notches on E. and 4 notches on S. edges; from which
	A pine tree 32 ins. diam. bears S 78° 48' W. 84 lks. dist. marked T. 2 S. R. 3 E. S. 15 B.T.
	A pine tree 30 ins. diam. bears N 29° 36' W. 48 lks dist. marked T. 2 S. R. 3 E. S. 10 B.T.
	No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	This cor. stands 100 ft. below summit
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber aspen of small size on W. side of summit heavy pine on E. side
	Mountainous land 80.00 chs. —
	N. 89° 52' E on a random line bet. secs. 11 and 14
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line 10 lks. N. of cor. of secs. 11-12-13 and 14

Chains	
	Thence S. run
	S 89° 56' W. on a true line bet. secs. 11 and 14
	Over mountainous land
	Ascending gradually, in timber in bottom of gulch
3.00	Leave bottom of gulch cross N. and S. and begin ascent
24.00	Top of spur runs N. 20° E. 250 ft. above cr.
	Descending
40.03	Set a sandstone 18 x 9 x 5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cr. Pits inaccessible
42.66	Bottom of hollow 120 ft. deep drains N.E.
	Ascending
66.66	Top of spur runs N.E. 575 ft. above hollow
	Thence on steep rocky slope and gradual ascent
80.06	The cor. of secs. 10-11-14 and 15
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	Timber aspens of small size mainly and scattering pine
	Mountainous land 80.06 chs. —
	June 16: At this cor. I set off 23° 21' W. on the declination and at 12h 00m, L.M.T. observed the sun on the meridian. The resulting Lat. is 40° 39' N.
	N 0° 1' W. bet. secs. 10 and 11
	Over mountainous land
	Descending abruptly, in timber
10.00	Enter head of gulch draining N. 60° E. 300 ft. below cr.
	Thence on gradual descent
29.00	Dry wash course N. 80° E 420 ft. below cr.
	Begin abrupt ascent
39.00	Top of spur runs E. 225 ft. above wash. — Descend
41.00	Set a sandstone 18 x 12 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which a pine tree 30 in. diam. bears S. 24° 30' W. 5 chs. dist. marked 1/4 S. 10 B.T.
	A pine tree 9 in. diam. bears N. 42° 0' E. 13 lks. dist. marked 1/4 S. 11 B.T.
63.25	Bottom of hollow draining E. 225 ft. below spur
	Ascending abruptly
72.58	Top of spur runs E. 200 ft. above hollow. — Descend

Subdivision of T. 2 S. R. 3 E.

Chains	
80.00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 2-3-10 and 11 marked with 2 notches on E. and S. notches on S. edges: from which a pine tree 6 ins. diam. bears S 38° 30' E 48 chs. dist. marked T. 2 S. R. 3 E. S. 11 B.T. A pine tree 5 ins. diam. bears S. 26° 30' W. 63 lks. dist. marked T 2 S R 3 E S 10 B.T. - no other trees within limit: Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable This cor. stands 160 ft. below above Land mountainous Soil gravely and rocky 3rd rate Timber pine and aspen of good quality Mountainous land 80.00 chs. —
	N 89° 30' E. on a random line bet. secs. 2 and 11
40.00	Set stone for 1/4 sec. cor.
80.00	Intersect N. and S. line 9 lks N. of cor of secs. 1-2 11 and 12
	Thence S.
	West on a true line bet. secs 2 and 11
	Over mountainous land
	Ascending in dense aspen brake and brush
3.25	Top of spur runs N.E. 30 ft. above cor.
	Thence on gradual descent to —
21.10	Stream runs N.E. 6 chs wide in hollow 20 ft. deep
	Begin ascent on S.E. slope
40.00	Set a sandstone 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 stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. — On N.E. slope to —
57.00	Enter scattering pine timber course N. and S. -
70.10	Top of spur runs N. 760 ft. above stream
	Thence on N. slope and gradual descent to —
80.00	The cor. of secs. 2-3-10 and 11 — Land mountainous Soil gravely and rocky 3rd rate Timber aspen and pine scattering Mountainous land 80.00 chs — June 16, 1902
	June 17: at 7 h 25 m a.m. T.M.T. I set off 40' 40" N. on the lat. arc 23° 23' 30" N. on the decl. arc and determine a true meridian with the solar attach

Subdivision of T 2 S R 3 E.

Chains	cor. of sec. 2-3-10 and 11
	Thence I run
	N 0°1' W on a random line bet. secs 2 and 3
4.00	Set limb. 1/4 sec. cor.
101.12	Intersect N. bdy. of Tp. 2.84 chs N. 89°42' W of cor. of secs. 2-3-34 and 35 as hereinafter described.
	Set a sandstone 18x9x5 ins. 12 ins. in the ground for closing cor. of sec 2 and 3 marked C.C. on S face with 2 grooves on E and 4 grooves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor.
	Pits impracticable.
	And destroy markings on cor of secs 2-3-34 and 35 pertaining to secs. 2 and 3
	Thence I run
	S 0°1' E on a true line bet. secs 2 and 3
	Over mountainous land
1.25	Top of top of ridge bears E. and W. Descend
	Enter timber conif. E. and W.
27.50	Stream 4 lks. wide flows E in head of gulch 350 ft. below ridge. — Ascending
46.60	Top of ridge bears E. and W. 400 ft. high. — Descend
61.12	Set a sandstone 17x8x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
73.00	Dry wash drains S. 65° E in hollow 285 ft. below ridge
	Ascending to
81.80	Top of spur runs E 100 ft. high. — Descending
92.20	Dry wash in bottom of gulch drains N.E. 160 ft. deep
	Ascending to
101.12	The cor. of secs. 2-3-10 and 11
	Thin cor. stands 200 ft. above gulch
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber ashen of small size and dense growth and pine scattering and in bunches
	Mountainous land 101.12 chs. —

	From the cor. of secs. 3-4-33 and 34 on S. bdy of Tp. as hereinbefore described I run
	N 0°2' W. bet. secs. 33 and 34

Subdivision of T 2 S R 3 E

chains	Over mountainous land
	Descending in rock slide and ledges
6,00	Head of hollow drains N 75° E 100 ft. below cor.
	Begin ascent
13,60	Old road from Alta City to Big Cottonwood Canon bears N.E and S.W.
	Ascent becomes abrupt in cliffs
22,00	Top of ridge bears N E and S.W. 250 ft. above hollow.-
	Begin abrupt descent in head of gulch running N.
40,00	Set a granite stone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor.; marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor.- Pits impracticable
	Gulch turns N. 15° W.
	Thence on W. slope and gradual ascent to
46,30	Road from Alta City to Big Cottonwood Canon bears S. 30° E. and N. 30° W.
48,30	Enter timber course N.W. and S.E.
65,66	Top of spur running W. 60 ft. above 1/4 sec cor.
	Begin descent on broken rocky N.W. slope
80,00	Set a stone 17 x 9 x 6 ins. 11 ins. in the ground for cor. of secs. 27-28-33 and 34 marked with- 1 notch on S. and 3 notches on E. edges; from which
	A pine tree 7 ins. diam bears N. 49° 30' W. 17 lks. dist. marked T. 2 S. R. 3 E. S. 28 B.T.
	A pine tree 5 ins. diam. bears N 56° 30' E 22 lks. dist. marked T 2 S R 3 E S 27 B.T.
	A pine tree 7 ins. diam. bears S 42° 45' W. 26 lks. dist. marked T. 2 S. R. 3 E, S. 33 B.T.
	A pine tree 5 ins. diam. bears S 44° 22' E 19 lks. dist. marked T 2 S R 3 E S 34 B.T.
	Thin cor. stands 720 ft. below top of ridge crossed at 22,30 chs.
	Land mountainous
	Soil mostly rocky and barren granite rock in ledges and slide 40 % rate
	Timber pine of open growth - but large trees

Chain	Mountainous land 8.00 chs. —
	June 17 at this cor: I set off 23° 23' N on the
	decl. arc and at 12 h. M., I.M.T. observed the
	sun on the meridian the resulting
	Lat. in 40° 38' 25" N. —
	East on a random line bet. secs. 27 and 34
41.80	The 1/4 sec. cor. reestablished by me this day and
	described under resurveys of subdivision lines
	of this Tp: Book O: bears S. 2 E. 6 lks.
	Thence I run
	N 89° 39' W on a true line bet. secs. 27 and 34
	Over mountainous land
	Descending to
2.00	Stream 6 lks wide flows N. 15° W in bottom of gulch
	Begin ascent
4.50	Begin abrupt ascent in breaks and cliffs
	Enter timber course N. and S.
32.05	Top of sharp spur bears N. and S. 620 ft. above gulch
	Descending abruptly
41.80	This cor. of secs. 27. 28. 33 and 34
	This cor. stands 300 ft. below top of ridge
	Land mountainous
	Soil rocky and gravelly 4th rate
	Timber fine of good quality
	Mountainous land 41.80 chs. —
	West on a random line bet secs. 28 and 33
40.00	Set temp. 1/4 sec. cor.
77.60	Intersect N. and S. line 30 lks N. of cor: of secs. 28-29
	32 and 33 not found, but reestablished by me this
	day as follows;
	At a point N. 40° E. 10 lks. dist. from face of limestone
	cliff marked "S. 32" as described by the surveyor general I
	Mark a stationary limestone 10 x 9 x 7 ins. above ground
	with 4 notches on E. and 1 notch on S. edge for cor: of secs. 28-29
	32 and 33 from which
	A + marked on limestone cliff 3 ft. above ground bears
	N. 63° 2' W. 16 lks and beneath said mark T. 2 S. R. 3 E. S. 29.
	30. no other bearing available
	Thence I run

Subdivision of T 2 S R 3 E.

chains	N. 89° 47' E. on a true line bet. secs. 28 and 33.
	Over mountainous land
	Descending abruptly
7.15	Silver Fork of Big Cottonwood Creek, 3 lks. wide flows N in bottom of gulch 125 ft. below cor.
	Begin abrupt ascent. – In scattering timber
36.78	Enter limestone breaks course N. and S.
37.60	Set a limestone 18×10×6 ins. 12 ins. in the ground for 1/4 sec. cor.: marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. –
	Pits impracticable
41.00	Top of breaks. bears N. and S. – Thence on steep N. slope and gradual ascent
44.50	Top of spur runs N. 660 ft. above gulch
	Begin abrupt descent on rocky slope
67.70	Stream 3 lks. wide flows N. 10° W. in bottom of gulch 620 ft. below spur. – ascend
68.20	Old road now abandoned bears N and S
77.60	The cor. of secs. 27-28-33 and 34.
	This cor. stands 200 ft. above gulch
	Land mountainous
	Soil rocky 4th rate
	Timber pine, thin scattering growth –
	Mountainous land 77.60 chs. –
	June 17, 1902

June 18: at 7h 30m a.m. I set off 40° 36' 30" N on the lat. arc 23° 25' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 27. 28. 33 & 34

Thence I run

N. 0° 2' W on a random line bet. secs. 27 and 28

40.00	Set temp. 1/4 sec. cor
79.60	Intersect E. and W. line 54 lks. W. of cor. of secs. 21-22-27 and 28 as found; a stake much decayed lying partly covered in the ground, markings plainly decernible and its exact position determined from two of the original bearing trees the dry stumps of which I found marked B.T. under a blaze. –
	I set a granite stone 17×8×6 ins 11 ins in the ground for cor. of secs. 21-22-27 and 28 marked with 2 notches

Chains	
	on S. and 3 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable U.S. Mineral Monument No 8 Big Cottonwood Mining District bears S. 13°08' W. 27.43 chs.
	Thence I runs
	S 0°21' W. on a true line bet. secs. 27 and 28
	Over mountainous land
	Ascending in dense brake and brush and scattering timber
40.00	Set a limestone 18 x 9 x 5 ins., 12 ins in the ground for ¼ sec. cor. marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W of Cor. Pits impracticable U.S. Mineral Monument No 8 Big Cottonwood Mining District bears N. 24°38' E. 14.50 chs.
40.00	Top of ridge runs N. 15° W. 600 ft. above sec. cor.
	Thence along steep broken W slope
	Enter timber, bears N.W. and S.E.
79.60	The cor. of secs. 27-28-33 and 34
	Land mountainous
	Soil rocky and gravelly 3rd and 4th rate
	Timber pine and aspen of fair quality
	Mountainous land 79.60 chs. —

	The S. bdy. of sec 15 being defective in alignment
	I begin at the cor. of secs. 10-11-14 and 15 and runs
	West bet. secs. 10 and 15, on sectional correction line
	Over mountainous land
	Ascending on steep rocky N.E. slope in timber
6.60	Summit of Wasatch Range course N. 30° W and S.E.
	120 ft. above cor. — Leave timber bears N W and S E
	Thence on S. slope and gradual descent to
23.50	Top of ridge runs S. 60° W. and beginning of abrupt descent on N.W. slope
	Enter timber course N. and S.
40.00	Set a sandstone 18 x 7 x 5 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
53.64	Stream 10 lks. wide flows S. 60° W. in bottom of narrow rocky gulch 500 ft. below ridge
	Begin abrupt ascent
75.00	Top of ridge runs S. 200 ft. above stream
	Descending. Leave timber course N.E and S.W.
80.00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground

Subdivision of T.2 S, R.3 E.

Chains	for cor. of secs. 9-10-15 and 16 marked with 3 notches on E. and 4 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.—
	This cor. stands 90 ft. below top of spur
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber pine of good quality but open growth
	Mountainous land 80.00 chs.
	S.0°2'E on a random line bet. secs. 15 and 16
40.00	Set temp. ¼ sec cor.
78.76	Intersect E. and W. line 27 lks. W. of cor. of secs. 15-16-21 and 22 as reestablished by me this day and described under reservoys of subdivisions of this Tp "Book O"
	Thence I run
	N.0°10'W. on a true line bet. secs. 15 and 16
	Over mountainous land
	Ascending, in dense aspen brake
10.00	Dry wash in hollow 30 ft. deep draining S.30°W
38.76	Set a sandstone 18x8x7 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face from which
	An aspen tree 4 ins. diam. bears S.77°19'E. 54 lks. dist. marked ¼ S. 15 B.T.
	An aspen tree 4 ins. diam. bears S.54°36'W. 36 lks. dist. marked ¼ S. 16 B.T.
	This cor. stands on top of spur running S.W. 600 ft above sec cor. — Thence on W slope to—
51.00	Begin descent.— Enter timber course E and W.
69.66	Stream 14 lks. wide flows S.65°W. in bottom of narrow gulch 3,30 ft. below spur.—
	Begin abrupt ascent.—
	Leave timber course parallel with gulch
78.76	The cor. of secs. 9-10-15 and 16
	This cor. stands 210 ft above stream
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine of fair quality but thin growth
	Dense aspen brake and undergrowth —
	Mountainous land 78.76 chs.—

Chains	June 18, 1902
	June 19: at 7h 10m a.m., l.m.t. I set off 40° 39' N. on the lat. arc 23° 26' 30" N. on the decl arc and determine a true meridian with the solar at the cor. of secs. 9-10 15 and 16.
	Thence I run
	N. 0° 2' W. bet. secs. 9 and 10.
	Over mountainous land
	Ascending abruptly on S.W. slope
24,00	Top of Ridge bears E. and W. 400 ft. above cor.
	Descending steep rocky slope
40,00	Set a limestone 18×9×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
52,60	Stream 5 lks. wide flows W. in bottom of gulch 675 ft below ridge. —
	A lake about 10 chs. diam. bears E. about 20 chs dist in head of this gulch. —
	Begin abrupt ascent
80,00	Set a sandstone 18×10×4 ins. 12 ins. in the ground for cor. of secs. 3-4-9 and 10 marked with 3 notches on E. and 5 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	This cor. stands 600 ft above stream in bottom of gulch
	Land mountainous
	Soil gravely wash and rocky 3rd and 4th rate
	No timber. -
	Dense brake and undergrowth -
	Mountainous land 80,00 chs. —
	East on a random line bet. secs. 3 and 10
40,00	Set temp. 1/4 sec. cor. -
80,12	Intersect N. and S. line at cor. of secs. 2-3-10 and 11
	Thence I run
	West on a true line bet. secs. 3 and 10
	Over mountainous land
	Descending on N.W. Slope, in timber
8,10	Bottom of gulch draining N.E. 125 ft. below cor.

Subdivision of T. 2 S. R. 3 E.

Chains	
10.00	ascent becomes abrupt on rocky N.E. slope
38.50	Summit of Wasatch Range bears at junction with divide between Big Cottonwood and Mill creek course N. and S. 25° E. - Divide above described runs N.W. 700 ft. above gulch. - Leave timber
40.06	Set a sandstone 17 x 9 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. -
43.50	Begin descent on S.W. slope
80.12	The cor. of secs. 3-4-9 and 10 Thin cor. stands 350 ft. below divide Land mountainous Soil rocky and gravelly 3rd and 4th rate Timber pine - thin scattering growth - Mountainous land 80.12 chs. - June 19: at this cor. I set off 23° 26' N. on the declination and at 12 h 1 m Am, L.M.T. observed the sun on the meridian: the resulting lat. is 40° 40' N. -
	N. 0° 2' W. on a random line bet. secs. 3 and 4 (269)
40.00	Set temp. 1/4 sec cor.
101.30	Intersect N. bdy. of Tp. at cor. of secs. 3-4-33 and 34 As heretofore described Thence I run S. 0° 2' E. on a true line bet. secs. 3 and 4 Over mountainous land Ascending gradually in scattering timber
3.00	Stream 4 lks wide flows N. 10° E. in hollow 10 ft. deep.
13.64	Same stream course N. 10° W.
21.50	Top of spur runs N.W. 150 ft. above cor. Descend Enter timber, and dense undergrowth bears E. and W.
30.60	Enter head of Mill Creek gulch bears N.W. and S.E. Leave timber course N.W. and S.E. Thence on gradual ascent
56.50	Dry wash drains N. 15° W. to Mill Creek
61.50	Set a Sandstone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Chains	
66.50	Ascent becomes steep and broken. - Leave gulch course N.W. and S.E.
	Enter timber course parallel with slope
74.50	Top of divide between Big Cottonwood and Mill Creek course N. 66° W. and S. 66° E. 350 ft. above gulch
	Begin descent
86.40	Head of hollow drains W. 100 ft. deep. - ascending
	Leave timber course N.W. and S.E.
99.55	Top of spur runs S.W. 60 ft above hollow. - Descend
101.60	The cor. of secs. 3-4-9 and 10
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber fine of fair quality
	Aspen brake and undergrowth
	Mountainous land 101.50 chs.
	June 19. 1902

June 20: at 7h 10m a.m. I.m.t. - I set off 40' 39" N on the lat. arc 23° 27' 30" N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 9-10-15 and 16 Thence - S. bdy. of sec. 16 being irregular I run

West. bet. secs. 9 and 16 - on a sectional correction line

Over mountainous land

Descending in dense brake and brush

28.45	Dry wash in head of gulch drains S. 250 ft below cor.
	Begin abrupt ascent
40.00	Set a limestone 18 x 8 x 7 ins 12 ins. in the ground for 1/4 sec. cor. - marked 1/4 on N. face from which An aspen tree 6 ins. diam. bears N. 28° 32' E. 25 lks. dist. - marked 1/4 S. 9 B.T.
	An aspen tree 4 ins diam. bears S. 4° 28' E. 17 lks. dist. - marked 1/4 S. 16 B.T.
47.75	Top of peak, and ridge running S.W. and N.E. 550 ft. above gulch. - Descending on N.W. slope W.
62.00	Head of hollow drains N. 150 ft. below peak
	Ascending. - Enter timber bears N. and S.
70.60	Top of sharp spur runs N. 110 ft above hollow
	Descending in N.W. slope W.
80.00	Set a quartzite stone 18 x 7 x 6 ins. 12 ins. in the

Subdivision of T. 2 S., R. 3 E.

Chains	ground for cor. of secs. 8-9-16 and 17 marked with 4 notches on S. and E. edges from which An aspen tree 4 ins. diam. bears N. 17° 22' E. 11 lks. dist. marked T. 2 S., R. 3 E., S 9 B.T. A pine tree 13 ins. diam. bears N. 69° 39' W. 57 lks. dist. marked T 2 S R 3 E. S. 8 B.T. An aspen tree 6 ins. diam. bears S. 11° 24' E. 22 lks. dist. marked T 2 S R 3 E S. 16 B.T. An aspen tree 6 ins. diam. bears S. 33° 15' W. 29 lks. dist. marked T. 2 S. R. 3 E. S. 17 B.T. Thin cor. stands 10 ft. below above Land mountainous Soil gravely crush 3rd rate Timber aspen of small size and scattering pine Some aspen brake and underbrush Mountainous land 80.00 chs. —
	E. bdy. of sec. 16 being irregular and S. half of W. bdy having been run North 0 runs South on a random line bet. secs. 16 and 17
08.20	The 1/4 sec. cor. reestablished by me this day and described under reservoir of subdivision lines of this Tp. "Bosh 0" bears E. 1.66 chs. Thence 0 runs North bet. secs. 16 and 17 Over mountainous land Ascending abruptly in aspen brake and undergrowth
28.70	Top of ridge runs S.W. 450 ft. above cor. Enter timber course N.E. and S.W.
	Thence on W. slope to
34.00	Begin descent on N. slope
38.20	Intersect E. and W. line 1.62 chs. E of cor. of secs. 8-9-16 and 17 from which 0 remove markings referring to secs. 16 and 17 at a quartzite stone 18 x 7 x 5 ins. 12 ins. in the ground for closing cor. of secs. 16 and 17 marked C.C. on S. face with 2 grooves on W. and 4 grooves on E. faces from which An aspen tree 6 ins. diam. bears S. 30° 15' W. 16 lks. dist. marked T. 2 S. R. 3 E. S 17 B.T. An aspen tree 7 ins. diam. bears S. 5° 30' E. 20 lks. dist. marked T. 2 S. R. 3 E. S. 16 B.T.

Subdivision of T. 2 S. R. 3 E.

chains	
	Thir cor. stands 30 ft. below apex
	Land mountainous
	Soil gravely soil. 3rd rate
	Timber aspen and pine
	Brush brake and undergrowth
	Mountainous land 38,20 chs.
	June 20, At this cor. I set off 23° 27' N. on the decl. arc and at 12h 1m p.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 39½ N.
	N. 0° 2' W. bet. secs. 8 and 9
	Over mountainous land
	Descending, in timber on N.W. slope
40,00	Set a sandstone 18×12×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which A willow 4 ins. diam. bears S. 69° 30' E. 9 lks. dist. marked 1/4 S 9 B.T.
	A willow 4 ins. diam. bears S. 82° 40' W. 22 lks. dist. marked 1/4 S. 8 B.T.
52,10	Stream 4 lks. wide flows W. in bottom of gulch 300 ft. below sec. cor.
	Begin ascent on broken slope
71,00	Top of spur runs W. 230 ft. above gulch. - Descend
73,50	Stream 3 lks. wide flows W. hollow 30 ft. deep - Ascend
75,50	Old wood road bears E. and W.
80,00	Set a quartzite stone 18×10×8 ins. 12 ins. in the ground for cor. of secs. 4-5-8 and 9 marked with + notches on E. and S. edges from which. An aspen tree 8 ins. diam. bears N. 69° 30' E. 18 lks. dist. marked T. 2 S. R. 3 E. S. 4 B.T.
	An aspen tree 12 ins. diam. bears N. 41° 40' W. 40 lks. dist. marked T. 2 S. R. 3 E. S. 5 B.T.
	An aspen tree 7 ins. diam. bears S. 85° 25' W. 8 lks. dist. marked T. 2 S. R. 3 E. S. 8 B.T.
	An aspen tree 6 ins. diam. bears S. 25° 45' E. 12 lks. dist. marked T. 2 S. R. 3 E. 8. 9 B.T.
	Thir cor. stands 30 ft. above hollow
	Land mountainous
	Soil gravely 3rd rate

Subdivision of T.2 S.R.3 E.

Chains	
	Timber aspen of small size mainly and scattering pine trees of large size Mountainous land 80.00 chs. —
	East on a random line bet. secs. 4 and 9
40.00	Set temp. 1/4 sec. cor
80.00	Intersect N. and S. line 12 lks. N. of cor. of secs. 3-4-9 and 10
	Thence I run
	N. 89° 55' W. on a true line bet. secs. 4 and 9
	Over mountainous land
	Descending gradually to
2.50	Top of spur runs S.W. - thence on N.W. slope
30.50	Top of spur runs N. and beginning of abrupt descent
40.00	Set a limestone 15×8×6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
58.00	Enter head of open gulch draining S.W. 380 ft below sec. cor.
64.00	Dry wash drains S.; a spring 2 chs. S of line flows S.W. to W.
68.00	Begin ascent. - Leave gulch bears S.W. and N.E.
	Enter timber bears N.E. and S.W.
80.00	The cor. of secs. 4-5-8 and 9
	Land mountainous
	Soil gravely and rocky 3rd rate —
	Timber aspen
	Mountainous land 80.00 chs. —
	June 20, 1902
	June 21 at 7h 26m a.m., l.m.t. I set off 40° 40' N. on the lat. arc 23° 28' N. on the decl. arc and determine with the solar a true meridian at the cor. of secs. 4-5-8 and 9. —
	Thence I run
	N. 0° 2' W. on a random line bet. secs. 4 and 5 —
40.00	Set temp. 1/4 sec. cor.
102.02	Intersect N. bdy. of Tp. 3.60 chs. S. 89° 43' E of cor. of secs. 4-5-32 and 33 as heretofore described
	Set a sandstone 18×8×6 ins. 12 ins. in the ground for closing cor. of secs. 4 and 5 marked C.C. on S.

Chains	
	face with - 4 grooves on E. and 2 grooves on W. faces from which
	An aspen tree 5 in. diam. bears S 7° 0' E 12 lks. dist. marked T. 2 S. R. 3 E. S. 4 B.T.
	An aspen tree 4 in. diam. bears S. 28° 35' W. 25 lks. dist. marked T 2 S R 3 E S 5 B.T.
	I removed all markings from cor of secs. 4-5-32 and 33 referring to secs. 4 and 5
	Thence I run
	S. 0° 2' E. on a true line bet. secs. 4 and 5
	Over mountainous land
	Ascending steep hillside N.W. slope, in timber
55,00	Leave timber course E. and W.
57,00	Top of divide between Mill Creek and Big Cottonwood Course about E. and W. 1100 ft above cor.
60,25	Begin abrupt descent
62,02	Set a sandstone 18 x 8 x 7 in., 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
80,00	Enter aspen timber course E. and W.
102,02	The cor. of secs. 4-5-8 and 9
	This cor. stands 8.60 ft. below divide
	Land mountainous
	Soil gravely wash 3rd rate
	Timber aspen of small size and dead growth - and scattering pine on N. side of divide
	Mountainous land 102,02 chs. —
	In order to not extend the errors of the old work into the new. I returned to the cor. of secs. 8 and 9
	Thence I run
	West bet. secs. 8 and 17 - on a meridional correction line
	Over mountainous land
	Descending in timber and undergrowth
36,53	Fence runs N. 30° E. and S. 30° W.
37,25	Wood road bears N. 30° E and S. 30° W.
39,65	North Fork of Big Cottonwood Creek 10 lks. wide flows S. 30° W. in bottom of gulch 460 ft. below cor.
	Ascend
40,00	Set a sandstone 18 x 11 x 4 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face

Subdivision of T. 2 S. R. 3 E.

chains	from which
	An ashen tree 12 ins. diam. bears S. 0° 25' W. 10 lks. dist. marked 1/4 S 17 13, T.
	An ashen tree 4 ins. diam. bears N 39° 45' E. 47 lks. dist. marked 1/4 S. 18 13. T.
7,50	Top of ridge runs S. 375 ft. above gulch
	Descending on S. W. slope to -
8,00	Set a limestone 28 x 9 x 8 ins. 20 ins. in the ground for cor. of secs. 7-8-17 and 18 marked with - 4 notches on S. and 5 notches on E. edges: from which A mountain mahogany tree 19 ins. diam. bears S. 87° 11' W. 36 lks. dist. marked T 2 S. R. 3 E. S. 18 13. T. A mountain mahogany tree 7 ins diam. bears S. 72° 40' E. 44 lks dist. marked T. 2 S. R. 3 E. S. 17 13. T. Two other trees within limits.
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. Land mountainous soil gravely - Timber scattering - Mountainous land broken.
	June 21: At this cor. I set off 23° 27' N. on the decl. arc and at 12h 1m p.m. mean time observed the sun on the meridian; the resulting lat. is 40° 39' N.
	West on a random line bet. secs. 7 and 18.
40,00	Set temp. 1/4 sec. cor.
77,20	Intersect W. bdy of Tp. 1 N. 2 chs. S of cor of secs. 7-12-13 and 18
	I set a limestone 18 x 11 x 6 ins. 12 ins. in the ground for closing cor. of secs. 7 and 18 marked C. C. on E. face with 2 grooves on N. and 4 grooves on S faces raised a mound of stones 2 ft. base 1½ ft. high E of cor. Pits impracticable. -
	And remove markings from cor of secs. 7-12-13 and 18 refering to secs. 7 and 18
	Thence I run
	East on astronomic line bet. secs. 7 and 18
	Over mountainous land
	Descending, in dense undergrowth -
3,60	Stream 2 ft. wide flows S. 25° E. in gulch 60 ft. below cor. -
	Begin abrupt ascent on S. W. slope
10,00	Top of ridge runs S. 160 ft. high. - Descend.
22,75	County road bears N. 65° E. and S. 65° W. in bottom

Chains	
	of canon 325 ft. below above
23.70	Big Cottonwood creek flows S.C. 5° W. 40 lks wide
	House of John Braunberg bears S. 45° W. 20 chs.
	Ascending on N.W. slope
	Enter timber course parallel with creek
37,20	Set a limestone 17×8×5 ins. 12 ins. in the ground
	for 1/4 sec cor. marked 1/4 on N. face, from which
	A pine tree 7 ins. diam. bears S. 36° 9' W. 9.2 lks. dist.
	marked 1/4 S, 1 & 13, T.
	An aspen tree 4 ins. diam. bears N. 26° 5' 7" W. 21 lks.
	dist. marked 1/4 S 4 13. T.
42,45	Top of above runs N. 100 ft. above creek. — Descend
53,64	same road runs N.W. and S.E. Leave timber
54,70	Big Cottonwood Creek 35 lks wide flows N.W. in
	bottom of canon 90 ft. below above: — ascend
57,54	Stream 4 lks wide flows S. 20° W.
77,20	The cor. of secs. 7-8-17 and 18
	Thin cor. stands 200 ft. above creek. —
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber pine of fair quality on S. side of creek
	Aspen brake and brush
	Mountainous land 77,20 chs. —

	N. 0° 3' W. bet. secs. 7 and 8
	Over mountainous land
	Ascending abruptly in brake and undergrowth
40.00	Set a limestone 18×9×6 ins. 12 ins. in the ground
	for 1/4 sec cor. marked 1/4 on W. face from which
	An aspen tree 4 ins. diam. bears N. 70° 15' W. 12 lks.
	dist. marked 1/4 S 7 13. T.
	An ashen tree 4 ins. diam. bears S. 61° 12' E. 20 lks
	dist. marked 1/4 S, 8 13. T.
48,50	Leave aspen brake course E. and W.
74.00	Top of slope and above running E. and S.E. 1060 ft.
	above sec. cor.
	Begin abrupt descent. — Enter pine timber
80.00	Set a limestone 16×9×8 ins. 11 ins. in the ground
	for cor. of secs 5-6-7 and 8 marked with 6 notches
	on S and E edges from which
	An ashen tree 5 ins. diam. bears N. 43° 48' E. 11 lks.

chains	
	dist. marked T. 2 S. R. 3 E. S. 5 B.T.
	An ashen tree 6 in. diam bears N. 86° 31' W. 15 lks.
	dist. marked T. 2 S. R. 3 E. S. 6 B.T.
	A pine tree 15 in. diam. bears S. 67° 3' W. 23 lks.
	dist. marked T 2 S R 3 E S 7 B.T.
	A pine tree 9 in. diam. bears S 0° 54' E. 13 lks.
	dist. marked T 2 S R 3 E S 8 B.T.
	This cor. 80 ft. below top of spur and through on the N side of the ridge still on the Big Cottonwood watershed, at head of a gulch draining W. 60 S. —
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine and ashen
	Dense ashen brake and undergrowth - on S. slope
	Mountainous land 80.00 chs.
	June 21, 1902

	June 22: at 7 h 30 m a.m. I ran S - I set off 40° 40' N. on the lat. and 23° 28' N. on the decl. and determine a true meridian with the polar at the cor. of sec. 5-6-7 and 8
	Thence I run
	East on a random line bet. sec. 5 and 8
40.00	Set Limst. 1/4 sec. cor.
79.96	Intersect N. and S. line 7 lks. S of cor. of sec. 4-5-8 and 9
	Thence I run
	S 89° 57' W. on a true line bet. secs. 5 and 8
	Over mountainous land
	Ascending gradually in timber and brake
3.00	Top of low spur runs S. 20° W
	Begin descent
8.50	Dry wash in bottom of gulch 30 ft. deep. drains S. 20° W. —
	Thence along side bottom S slope and gradual ascent to
28.00	Top of spur runs S. 100 ft. above gulch - descend.
37.90	Bottom of gulch 90 ft. deep drains S. 30° E
	Ascending.
39.98	Set a porphyry stone 18 x 8 x 7 in. 12 in. in

Chains	The ground for 1/4 sec. cor. marked 1/4 on N. face from which
	An aspen tree 5 in. diam. bears S. 39° 40' W. 9 lks. dist. marked T 2 S R 3 E S 8 B.T.
	An aspen tree 5 in. diam. bears North - 12 lks. dist. marked 1/4 S. 6 B.T.
43.00	Top of spur runs S. 70 ft. above gulch. - Descend
54.00	Bottom of hollow draining S. 30° E. from a lake or pond about 3 chs diam. lying in a saddle on top of divide between Mill Creek and Big Cottonwood creek 13 chs. N.W. from this point.
	Begin abrupt ascent
73.00	Top of slope and ridge forming divide between Mill Creek and Big Cottonwood, runs N.E. and S.W. 500 ft. above hollow. - Descending
76.50	Enter timber bears N. and S.
79.96	The cor. of secs. 5-6-7 and 8
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine and aspen
	Dense aspen brake and undergrowth
	Mountainous land 79.96 chs. —
	West on a random line bet. secs. 6 and 7
4.00	Set limp. 1/4 sec. cor.
77.34	Intersect W. bdy. of Tp. 1 N. 90 chs S of cor. of secs. 1-6-7 and 12 as heretofore described
	Set a limestone 16 x 9 x 7 in. 11 in. in the ground for closing cor. of secs. 6 and 7 marked C.C. on E. face with 1 groove on N. and 5 grooves on S. faces. from which
	An aspen tree 6 in. diam. bears N. 5° 45' E. 22 lks. dist. marked T. 2 S. R. 3 E. S. 6. B.T.
	An aspen tree 6 in. diam. bears S. 6° 45' E. 13 lks. dist. marked T. 2 S. R. 3 E. S. 7 B.T.
	and remove all markings from cor. of secs. 1-6-7 and 12 refering to secs. 6 and 7.
	Thence S. runs
	East on a true line bet. secs. 6 and 7
	Over mountainous land
	Descending, in timber

Subdivision of T. 2 S. R. 3 E.

Chains	
1.10	Wash drains S 60° E
7.64	Stream 4 lks. wide flows S. 15° W. in bottom of gulch 50 ft. below cor. ascending abruptly
19.35	Top of spur runs N. 30° W. 250 ft. above stream Descending
24.85	Hollow drains N. 20° W. 50 ft. deep.— Ascending on N.W. slope to
37.34	Set a porphyry stone 18 x 8 x 6 ins: 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which An aspen tree 10 ins. diam. bears S 16° 2' E. 11 lks. dist marked 1/4 S 7 B.T. An aspen tree 6 ins. diam. bears. N. 1° 55' W. 23 lks. dist. marked 1/4 S. 6 B.T.
77.34	The cor. of secs. 5-6-7 and 8 This cor. stands 420 ft. above hollow Land mountainous Soil gravely and rocky 3rd rate Timber pine and aspen of fair quality Mountainous land 77.34 chs. — June 22: at this cor. I set off 23° 27'. N. on the decl. arc and at 12h 2m p.m. l.m.t. observe the sun on the meridian: the resulting lat. is 40° 40' N.
	N 0° 3' W on a random line bet. secs. 5 and 6
40.00	Set temp. 1/4 sec. cor.
102.60	Intersect N. bdy. of Tp. 7.15 chs. S 89° 43' E of the cor. of secs. 5-6 31 and 32 as heretofore described I set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for closing cor. of secs. 5 and 6 marked C.C. on S. face with 5 groves on E. and 1 grove on W. faces: from which An aspen tree 6 ins. diam. bears S. 26° 23' E. 18 lks. dist. marked T 2 S R 3 E S 5 B.T. An aspen tree 6 ins. diam. bears S 41° 4' W. 26 lks. dist. marked T 2 S R 3 E S 6 B.T. And remove all markings from cor. of secs 5-6. 31 and 32 refering to secs. 5 and 6 Thence I run S. 0° 3' E. on a true line bet. secs. 5 and 6 Over mountainous land Ascending gradually on broken W. slope in

Chains	Timber
27,00	Stream 30 lks. wide flows W. in hollow 60 ft. deep.
43,65	Stream 3 lks. wide flows W. in hollow 40 ft deep.
57,90	Stream 4 lks. wide flows N. 20° W. in head of gulch
	Timber on N.E. slope ascending gradually
62,60	Set a limestone 18 x 9 x 8 in. 12 in. in the ground
	for 1/4 sec. cor. marked 1/4 on W. face from which
	a pine 12 in. diam. bears S 68° 30' E. 33 lks. dist.
	marked 1/4 S. 5 B.T.
	A pine 12 in. diam. bears S 32° 30' W. 17 lks. dist.
	marked 1/4 S. 6 B.T.
70,00	Ascent becomes abrupt.
100,60	Top of divide between Mill Creek and Big Cottonwood
	Course N.W. and S.E. 900 ft. above the closing cor.
	There is a low pass in the divide N.W. and also S.E.
	from this point about 10 chs. each way
	On W. slope of
102,60	The cor. of secs. 5-6-7 and 8
	Land mountainous
	Soil gravelly wash 3rd rate
	Timber aspen and pine of small size mainly
	Mountainous land 102,60 chs. —

	From the cor. of secs 7-8-17 and 18. Course
	S. 0° 1' E. bet. secs. 17 and 18
	Over mountainous land
	Descending abruptly
17,20	Enter bottom of Big Cottonwood Canon course N. 75° W.
	and S. 75° E. 320 ft. below cor.
	County road from Brighton to Salt Lake Valley runs
	parallel with canon
16,60	Big Cottonwood Creek 30 lks. wide flows N. 75° W.
	swift current clear pure water. - Enter dense willows
21,00	Leave willows and bottom of canon and enter timber
	course N. 75° W. and S. 75° E.
	Ascending gradually
21,40	Old mill ditch 15 lks. wide runs W. old abandoned
	mill site bears W. 4 chs.
35,00	Begin abrupt ascent course E. and W.
39,25	Leave timber bears E. and W.
40,00	Set a sandstone 18 x 9 x 6 in. 12 in. in the ground

Subdivision of T. 2 S.R.3 E.

Chains	for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.—
53,50	Top. of Spur runs N. 30° E 690 ft above creek. Thence on E. slope and gradual ascent to
80,00	Set a quartzite stone 17×10×5 in. 11 in. in the ground for cor. of secs. 17-18-19 and 20 marked with 3 notches on S and 5 notches on E. edges from which
	An aspen tree 4 in. diam. bears N 16° 45' E 9 lks. dist marked T 2 S R 3 E S 17 B.T.
	An aspen tree 4 in. diam. bears N 87° 19' W. 6 lks. dist. marked T 2 S R 3 E S 18 B.T.
	An aspen tree 4 in. diam. bears S 38° 57' W 21 lks. dist. marked T. 2 S.R. 3 E. S. 19 B.T.
	An aspen tree 4 in. diam. bears S 52° 21' E 13 lks. dist. marked T. 2 S.R. 3 E. S. 20 B.T.
	Land mountainous
	Soil gravely 3rd rate
	Timber pine and aspen
	Mountainous land 80,00 chs.
	June 22, 1902
	June 23: At 7h 8m a.m. l.m.t. I set off 40° 38' N. on the lat. arc 23° 28' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 17-18-19 and 20
	Thence I run
	East on a random line bet. secs. 17 and 20
41,76	The 1/4 sec. cor. as reestablished by me this day and described under resurveys of subdivision lines of this Tp. "Book O" bears N 2,06 chs.
	Thence I run
	West on a true line bet. secs. 17 and 20
	Over mountainous land
	Descending abruptly in dense undergrowth
11,20	Wood road bears N. 15° W and S 15° E.
11,90	Day's Fork 12 lks wide about 5 chs. below spring and head of stream, flows N. 15° W. in narrow gulch 225 ft. below cor.
	Begin abrupt ascent

Chains	
	on broken slope in scattering timber
+1,76	Intersect N. and S. line 2,06 chs. N. of cor. of secs. 17-18-19 and 20 from which O remove all markings relating to secs. 17 and 20, and
	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 17 and 20 marked C.C. on E. face with - 3 grooves on N. and S. faces, raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable
	This cor. stands 630 ft. above creek. —
	Land mountainous
	Soil gravely and rocky of 2nd rate
	Timber pine and aspen scattering
	Mountainous land +1,70 chs —
	West on a random line bet. secs. 18 and 19
40,00	Set limb. 1/4 sec. cor.
77,44	Intersect W. bdy. of Tp. 1,86 chs. S of cor. of secs. 13-18-19 and 24 as heretofore described
	Set a limestone 18 x 8 x 7 ins. 12 ins. in the ground for closing cor. of secs. 18 and 19 marked C.C. on E. face with - 3 grooves on N. and S. faces, from which
	A pine tree 4 ins. diam., bears N. 64 30' E. 6 lks. dist. marked T. 2 S. R. 3 E. S 18 B.T.
	A pine tree 4 ins. diam., bears S +1° 10' E 7 lks dist. marked T 2 S R 3 E S 19 B.T.
	and removed all markings from cor. of secs. 13-18-19 and 24 relating to secs 18 and 19
	Thence 9 runs
	East on a true line bet. secs. 18 and 19
	Over mountainous land
	Ascending, in timber
5,78	Top of spur runs N. 30° E. 60 ft. above cor.
	Begin abruptt ascent
17,60	Woodroad bears N.E. and S.W.
21,30	Same road bears N. and S.
37,44	Set a quartzite stone 18 x 12 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: from which
	A pine tree 9 ins. diam. bears N. 12 23' E. 60 lks. dist. marked 1/4 S. 18 B.T.

chains	
	a pine tree 12 in. diam. bears S. 0° 31' W. 5 lks. dist.
	marked 1/4 S. 19 B.T.
39.20	Leave timber course N. and S.
	Enter bottom gulch 700 ft. below spur
39.98	Canon road bears N. and S.
40.54	South Fork of Big Cottonwood 16 lks. wide flows N.
41.50	Begin ascent. - Enter timber course N. and S.
46.00	Ascent becomes abrupt in cliffs
76.00	Top of spur runs N. 700 ft. above gulch
	Descending W
77.44	The cor. of secs. 18 and 19
	This cor. stands 80 ft. below spur. -
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber pine and aspen of fair quality
	Mountainous land 77.44 chs. -
	June 23: The sky being overcast during the morn hours I was unable to observe the sun on the meridian. -

	S. 0° 1' E. bet. secs. 19 and 20
	Over mountainous land
	Ascending in timber
5.20	Top of ridge bears N. 16° W. and S. 10° E. 60 ft. above cor.
	Thence along W. slope of ridge W
18.00	Top of same ridge bears N. 10° E. and S. 10° W.
	Descending on S.E. slope W
22.30	Head of hollow drains E. 60 ft. deep
	Ascending on N.E. slope
4.00	Set a limestone 18 x 8 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
68.00	Top of spur runs E. 430 ft. above hollow. - Descend
76.80	Bottom of hollow draining E. 90 ft. deep.
	Begin abrupt ascent
8.00	At stationary limestone ledge 24 x 18 x 12 in. above ground for cor. of secs. 19-20-29 and 30 I mark with 2 notches on S. and 5 notches on E. edges
	from which
	A pine tree 14 in. diam. bears N. 42° 6' W. 68

Chains	lks. dist. marked T. 2 S. R. 3 E. S 19 B.T.
	A pine tree 30 ins. diam. bears S. 15° O'W. 7 lks. dist. marked T. 2 S. R. 3 E. S. 30 B.T. —
	No other trees within limit. — Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	This cor. stands on steep N.E. slope 125 ft. above hollow.
	Land mountainous
	Soil rocky and gravely 3rd and 4th rate.
	Timber, pine and aspen of large size, and rather thin growth. —
	Mountainous land 80.00 chs. —
	East on a random line bet. secs. 20 and 29
40.00	Set temp. 1/4 sec. cor.
81.96	Intersect N. and S. line 197 lks. S of cor. of secs. 20-21-28 and 29 not found but reestablished by me this day as follows. —
	At the exact corner point located by course and measurements from the original bearing trees found standing and marked as described by the surveyor general. I set a limestone 17 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 20-21-28 and 29 marked with 2 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
	From cor. point original bearing tree an aspen 8 ins. diam. bears N. 63° E. 84 lks. dist. marked T. 2 S. R. 3 E. S. 21 B.T.
	Original bearing tree an aspen 9 ins. diam. bears S. 85° E. 38 lks. dist. marked T. 2 S. R. 3 E. S. 28 B.T.
	Thence I run
	West on a true line bet. secs. 20 and 29
	Over mountainous land
	Ascending
7.00	Enter timber course N. and S.
18.00	Top of ridge bears N. and S. 150 ft. above cor.
	Begin abrupt descent in limestone cliffs
31.20	Foot of cliffs and breaks bears N. and S.
	Descending in slide rock and bowlders
41.96	Set a limestone 17 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which

Subdivision of T. 2 S. R. 3 E.

chains	an aspen tree 4 in. diam. bears N 0°53' W. 23 lks. dist. marked 1/4 S. 20 B.T.
	An aspen tree 4 in. diam. bears S 17°0' W. 4 lks. dist. marked 1/4 S. 29 B.T.
44.58	Dry wash in bottom of Day's Fork gulch drains N 700 ft. below ridge.- Ascending
	Leave timber bears N. and S.
45.75	Wood road bears N. and S.
57.46	Begin abrupt ascent course N. and S.
	Enter timber bears N. and S.
81.96	Intersect N and S. line 1.97 chs N.W. of cor. of secs. 19-20-29 and 30.-
	A stationary limestone ledge 18×12×10 in. above ground for closing cor. of secs. 20 and 29 I mark C.C. on E. face with 4 groves on N. and 2 groves on S. faces from which
	A pine tree 10 in. diam. bears N. 65°50' E. 42 lks. dist. marked T. 2 S. R. 3 E. S. 20 B.T.
	No other trees within limits.- Raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable
	This cor. stands 585 ft. above gulch
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber pine and aspen of good quallity
	Mountainous land 81.96 chs.—
	June 23. 1902

June 24: At 7h 5m a.m. t.m.t. I set off 40°37' N. on the lat. arc 23°27' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 19 and 30

Thence I run

West on a random line bet. secs. 19 and 30

40.00	Set temp. 1/4 sec. cor.
77.58	Intersect W. bdy. of Tp. 2.00 chs S of cor. of secs. 19-24 25 and 30 as heretofore described
	I set a limestone 17×10×7 in. 11 in. in the ground for closing cor. of secs. 19 and 30 marked C.C. on E face with 4 groves on N. and 2 groves on S. faces; from which
	An aspen tree 4 in. diam. bears N. 10°27' E. 19 lks.

Subdivision of T. 2 S. R. 3 E.

Chain	dist. marked T 2 S R 3 E S. 19 B.T.
	An aspen tree 5 inn. diam bears S. 78° 2' E 1 lks
	dist. marked T. 2 S. R. 3 E. S. 30 B.T.
	And removed markings on cor of secs 19-24-25 and 30
	refering to secs. 19 and 30
	Thence N. run
	East on a true line bet. secs. 19 and 30
	Over mountainous land
	Descending, in scattering timber and brake
33,10	Enter bottom of South Fork Gulch bears N. and S. 600
	ft. below cor.
	Leave timber
35,30	Wood road bears N. and S.
36,52	S. Fork Creek 8 chs. wide flow N. — water rises a short
	distance above and sinks again a short distance
	below.
	Begin abrupt ascent — Enter timber course N. and S.
37,58	Set a quartzite stone 18 x 8 x 6 inn; 12 inn. in the
	ground for 1/4 sec. cor. marked 1/4 on N. face
	from which
	A pine tree 7 inn. diam. bears N. 25° 1/6' W. 9 chs.
	dist. marked 1/4 S. 19 B.T.
	A pine tree 3 inn. diam. bears S. 3° 0' E. 2 chs. dist.
	marked 1/4 S. 30 B.T.
39,50	Enter rock slide bears N. and S.
46,60	Enter limestone breaks and cliffs, bears N. and S.
69,52	Top of cliffs and ridge bears N. and S. 775 ft. above
	gulch. — Descending abruptly W.
77,58	The cor. of secs. 19 and 30
	This cor. stands 130 ft. below top of ridge
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate —
	Timber pine and aspen of good quality
	Mountainous land 77,58 chs. —

	S. 0° 1' E bet. secs. 29 and 30
	Over mountainous land
	Ascending on steep rocky N.E. slope in timber
6,75	Top of spur runs E 125 ft. above cor. — Descend
10,20	Head of hollow drains E. 90 ft. deep — Ascend
25,15	Top of sharp spur runs E. 200 ft. high — Descend

Subdivision of T 2 S R 3 E.

Chains	
34.50	Head of hollow drains E 120 ft. below spur - Ascend
40.00	Set a limestone 18 x 7 x 5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
58.50	Top of spur runs E. 300 ft. above hollow
	Begin abrupt descent in breaks and ledges
62.00	Leave breaks course E. and W.
67.00	Head of hollow drains E. 210 ft. below spur. - Ascending to
78.25	Top of sharp ridge bears N. 5° W. and S. 10° E. 220 ft. above hollow. - Thence on W. slope ascending to
80.00	Set a limestone 18 x 10 x 7 in. 12 in. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges: from which A pine tree 6 in. diam. bears N 5° 4' 0" W 6 lks. dist. marked T. 2 S. R. 3 E. S. 30 B.T. A pine tree 7 in. diam. bears S. 31° 8' W. 37 lks. dist. marked T. 2 S. R. 3 E. S 31 B.T. No other trees within limit. - Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	U.S. Mineral Monument No 3 Big Cottonwood Mining District bears S. 9° 40' W. 22.60 chs. —
	Land mountainous
	Soil rocky 4 to rate
	Timber pine, thin scattering growth
	Mountainous land 80.00 chs. —
	June 24: at this cor. I set off 23° 26' N. on the lat. arc and at 12h 2m p.m. L.M.T. observe the sun on the meridian: the resulting lat. is 40° 36' 25" N. —
	East on a random line bet. secs. 29 and 32
40.00	Set temp. 1/4 sec. cor.
82.24	Intersect N. and S. line 1.84 chs. S of cor. of secs. 28-29 32 and 33 as heretofore described.
	Thence I run
	West on a true line bet. secs. 29 and 32
	Over mountainous land
	Ascending limestone ledge course N. and S.
0.35	Top of ledge 25 ft. above cor. Ascending steep slope
3.90	Limestone ledge 30 ft. high bears N. and S.

Subdivision of T 2 S R 3 E

Chains	
	Enter timber course N. and S.
11,40	Top of ridge bears N. and S. 225 ft. above cor.
	Begin abrupt descent in cliffs and breaks
31,05	Dry wash and bottom of Day's Fork Gulch draining N. 10° W. 675 ft. below top of ridge
	Begin gradual ascent.
	Leave timber course N. and S.
33,30	Old deserted miner cabin N. of line, old shaft bear N. about 3 chs — On top of spur 30 ft. high running N.
	Descending gradually to
42,24	Set a quartzite stone 18×10×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	This cor. stands in head of hollow draining N.
43,00	Begin abrupt ascent. - Enter timber course N. and S.
82,24	Intersect N. and S. line 1,84 chs N 0°01' W of cor. of secs. 29-30-31 and 32 from which I remove markings refering to secs 29 and
	Set a limestone 18×10×5 ins. 12 ins. in the ground for closing cor. of secs. 29 and 32 marked C.C. on E. face with 5 groves on N. and 1 grove on S. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable
	This cor. stands 820 ft. above the 1/4 sec cor.
	Land mountainous
	Soil gravely and rocky 4th rate
	Timber fine, thin, open, mainly scattering growth
	Mountainous land 82,24 chs. -
	West on a random line bet. secs. 30 and 31
40,00	Set temp. 1/4 sec. cor.
77,96	Intersect W. bdy. of Tp. 1,84 chs. S of cor. of secs 25-30-31 and 36 as heretofore described
	I set a quartzite stone 18×11×10 ins. 12 ins in the ground for closing cor. of secs. 30 and 31 marked C.C. on E. face with 5 groves on N. and 1 grove on S. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. - Pits impracticable
	And remove all markings on cor. of secs. 25-30-31 and 36 relating to secs 30 and 31
	U.S. Mineral Monument No 3 on Montreal Flat bears N 13°5' E, 46,50 chs } ?
	Thence I run

Subdivision of T. 2 S. R. 3 E.

Chains	
	East on a true line bet. secs. 30 and 31
	Over mountainous land
	Descending over broken slope, scattering timber
31,14	Stream 2 lks wide flows N. 20° E. in hollow 300 ft. below cor. — ascending gradually
35,95	Top of low spur bears N. and S.
	Descending abruptly to —
37,00	South Fork Creek 8 lks wide in ravine 60 ft. deep. flows N. — ascending abruptly —
37,30	Top of ravine. — Descend gradually
37,96	Set a limestone 18×8×7 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	A pine tree 6 in. diam. bears N 55° 35' W. 47 lks dist. marked 1/4 S. 30 B.T.
	A pine tree 3 in. diam. bears S. 21° 16' E. 39 lks. dist. marked 1/4 S. 31 B.T.
	Enter timber bears N. W. and S. E.
41,10	Dry wash drains N. 25° W. in hollow 30 ft deep.
	Begin abrupt ascent
42,45	Road to Reed and Benson Tunnel bears N 20° W and S 20° E.
43,50	Enter slide rock bears N. and S.
48,00	Leave slide rock bears N. and S.
50,10	Mouth of Reed and Benson Tunnel bears bears N. 1,75 chs. — Road bears N. and S.
55,00	Enter limestone cliffs and breaks.
77,96	The cor. of secs. 30 and 31
	This cor. stands 850 ft. above gulch —
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber pine mostly thin scattering growth —
	Mountainous land 77,96 chs.
	June 24, 1902

June 25: at 7h 35m a.m. T.M.T. — I set off 40° 36' 25" N. on the lat. arc 23° 26' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 30 and 31.

Thence I run

S 0° 1' E on a random line bet. secs. 31 and 32

Subdivision of T 2 S R 3 E.

Chains	
40.00	Set temp. 1/4 sec. cor.
78.12	Intersect S. bdy. of Tp. 2.90 chs. W. of cor. of secs. 5-6-31 and 32 as heretofore described
	I set a quartzite stone 18×10×6 ins. 12 ins. in the ground for closing cor. of secs. 31 and 32 marked C.C. on N. face with 5 grooves on E. and 1 groove on W. faces; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	And remove all markings from cor. of secs. 5-6-31 and 32 refering to secs. 31 and 32
	Thence I run
	N. 0° 1' W. on a true line bet. secs. 31 and 32
	Over mountainous land
	Ascending abruptly
38.12	Set a limestone 18×8×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pine tree 5 ins. diam. bears S. 72° 20' E 47 lks. dist. marked 1/4 S. 32 B.T
	A pine tree 5 ins. diam. bears N 77° 25' W. 38 lks. dist. marked 1/4 S. 31 B.T.
39.55	Top of divide between Little Cottonwood and Big Cottonwood Canons, course E. and W. 860 ft. above closing cor.
	Begin abrupt descent
48.15	Head of hollow drains N. 65° E. 140 ft. below ridge. Ascending on S.E. slope to
61.80	Top of sharp ridge dividing South Fork Gulch from Days Fork Gulch bears N. 5° E and S. 5° W.
	Descending gradually on W. slope near top of ridge
78.12	The cor. of secs. 30 and 31
	Land mountainous
	Soil rocky and gravely 4th rate
	Timber, a few scattering pine trees
	Mountainous land 78.12 chs.
	I return to the meridian established June 4, from Polaris, at my permanent camp near the N.E. cor. of sec. 27 as described under survey of S. and W. bdy. of this Tp. "Book L" at 2h 55m p.m., l.m.t.
	I set off 23° 25' N. on the decl arc and test the adjustments of the instrument; finding it

Subdivision of T. 2 S. R. 3 E.

Claim

given the same meridian as before and adjustments satisfactory. —

June 25, 1902.

General Description

This township is all mountainous land, exceedingly rough and broken, and with the exception of the N.W. ¼ of sec. 17 and N. ½ of sec. 18 no part of it could possibly be used for cultivation. — The soil is in places fertile and nearly all affords good summer range for stock. — The southern part of the T. is very rocky. There are groves of excellent pine timber scattered throughout the township and much above useful for firewood and fencing. —

The greater part of the township is covered with mining claims and years ago this section produced much silver-lead ore but at the present time there is very little activity, nearly all of the mines lying idle and no ore of any kind is being sent out of the township. —

The township has an abundance of good water and one other canon in the Wasatch Range can compare with the Big Cottonwood for mountain scenery and grandeur while the head of the canon with its heavy pine forests, sunny slopes, sparkling rills and numerous deep clear lakes; and surrounded by lofty ragged peaks behind which large snowbanks melt slowly all the summer has all the attributes of an ideal summer resort. —

Big Cottonwood Creek is by far the largest and most reliable of all the mountain streams entering Salt Lake Valley, its headwaters being at a higher elevation than any other and it is my firm opinion that this township should be made a timber reserve in order that the Federal Government may regulate the grazing and timber cutting. —

Millions of feet of lumber has been hauled out of Big Cottonwood Canon as the numerous mill roads along the creek bear witness. — nearly all the valuable timber has been cut, and what

Subdivision of T. 2 S. R. 3 E.

Claims

¼ section entirely denuded but there is now over a large area a young growth of pine coming in among the old stumps, but this young forest the sheep herds will surely destroy if crowded too closely or left in the same locality until the more relished feed has been all devoured.—

There are one settler in sec. 18. John Bramberg applicant for survey of Tp. 3 S. R. 3 E.

Applicants for survey of this Tp. S. G. Darke, H. R. Watrous and Frank M. Day have a summer residence in the previously surveyed S. E. ¼ of sec. 17 and can not be seen from any point on my line.

The entire area of this township covered by the present survey is returned as mineral land with the exception of the north ½ of sec. 18 which is covered with a deep morain drift and creek wash, and has no mineral bearing rock exposed, while the soil is fertile and may be cultivated.—

Andrew P. Hanson
U. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

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

_____

howing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

In final affidavit see book R. Tp 1 S. R 2 E

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all ose parts or portions of the _____

_____

_____

_____ of the _____

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

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

bscribed and sworn to before me this _____ day of _____, 189

_____

SEAL

_____

6—151

In final affidavit see book R. Tp 1 S. R 2 E

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, Sept. 17, 1903, 189

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

executed by Andrew P. Hanson under his contract No. 2444, dated April 12, 1901, 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

6—151

BLANK

PAGE

BLANK

PAGE

4—679.

M.

BOOK A-293

FIELD NOTES

OF THE RE-SURVEY OF THE

South East and North Boundaries

of

Township No 2 South Range No 3 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Swenson, United States Deputy Surveyor,

Under his Contract No. 244, dated April 12, 1901

Survey commenced June 4, 1902

Survey completed June 11, 1902

6—151.

Resurvey

S. Bdy	E. Bdy	N. Bdy	
m. do. ths.	m. do. ths.	m. do. ths.	m. do. ths.
40-00	6-17-83	5-54-31	31-50

On Its Cor .07

NAMES AND DUTIES OF ASSISTANTS.

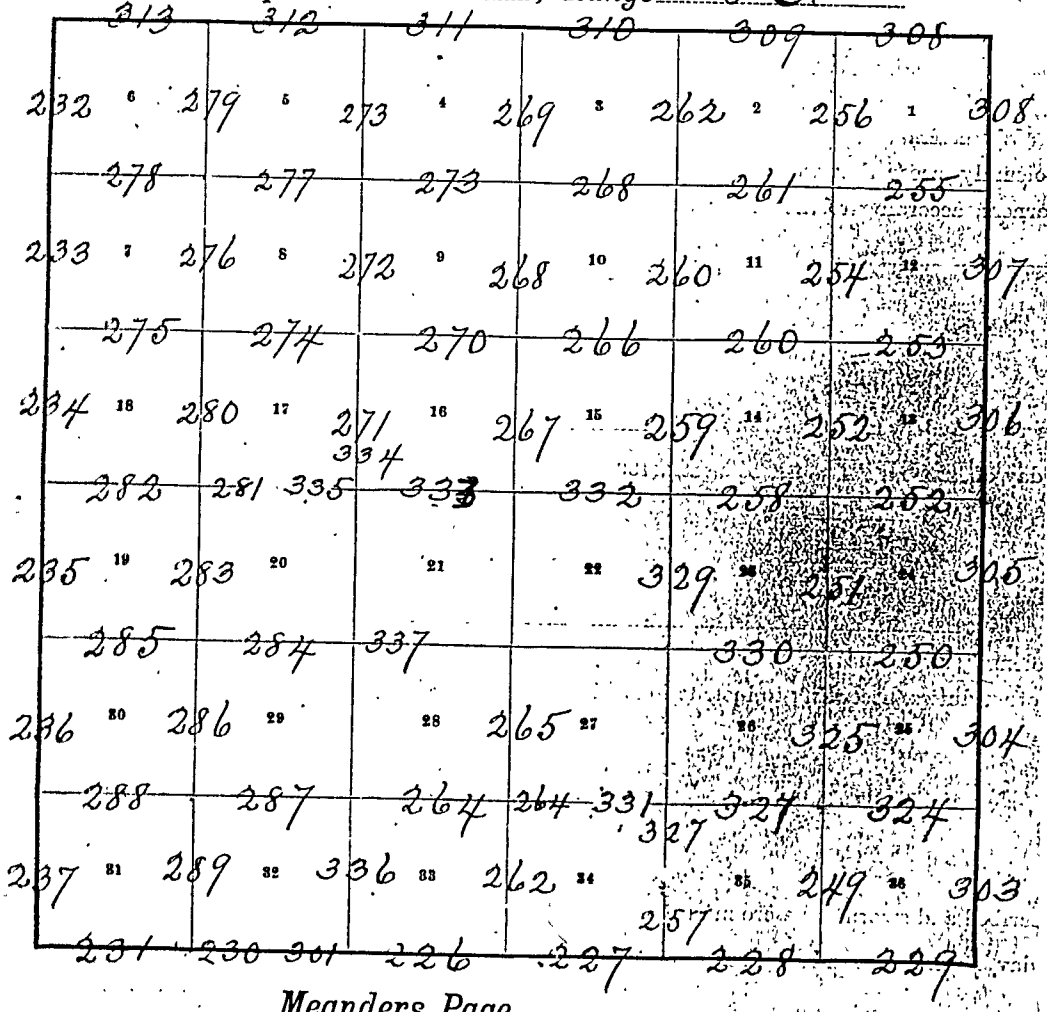
Edward L Jones Jr. -- Chainman
Willis B Booter "
Edward L Jones Jr. -- Moundman
Harold L Hobbs -- "
Willis B Booter -- Axeman
Frank Hyde Jr. -- "
Harold L Hobbs -- Flagman

6—511

BOOK A-293

INDEX DIAGRAM.

Township 2 S. ; Range 3 E.



Meanders Page

0—161

PRELIMINARY OATHS OF ASSISTANTS.

WE, Edward L Jones Jr. and Willis B Bootes 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 S. E. and N. Bdys of T 2 S R 3 E and S Bdy of T 1 S R 2 E

Edward L Jones Jr., Chainman

Willis B Bootes, Chainman

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

WE, Edward L Jones Jr. and Harold L Hobbs do solemnly swear that we will well and truly perform the duties of moundmen in the establishmen of corners, according to the instructions given us, to the best of our skill and ability, in the survey o S. E. and N. Bdys of T. 2 S R 3 E. and S Bdy of T 1 S R 2 E

Edward L. Jones Jr., Moundman

Harold L Hobbs, Moundman

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

WE, Willis B Bootes and Frank Hyde Jr do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne and other duties, according to instructions given us, to the best of our skill and ability, in the survey o S. E. and N. Bdys of T. 2 S R 3 E. and S Bdys of T 1 S R 2 E

Willis B. Bootes, Axman

Frank Hyde Jr., Axman

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

I, Harold L Hobbs, 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 S. E. and N. Bdys of T. 2 S R 3 E. and S Bdy of T 1 S R 2 E.

Harold L Hobbs, Flagman

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

Reservey of S. bdy. T 2 S R 3 E.

Chains.

Survey commenced June 4 1902 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. —.

The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 18, 1901. —

Note: Having this day finished a full test of the adjustments of the instrument as described at beginning of field notes of S. bdy. of this Tp. Book L reference to which is hereby made, I consider it unnecessary to again describe said test here. —

At the beginning of survey of S. bdy. of T. 2 S. R. 3 E. having run a random line west from S. E. cor. of Tp: at 320.00 chs I make a diligent search for the cor. of secs. 4-5-32 and 33 as described by the surveyor general but find no trace of same within a radius of 4 chs. —

I retrace each of the connecting lines S. & N. and N. for 40.00 chs. but find only the 1/4 sec. cor. bet. secs. 32 and 33 which alone is not sufficient to determine the exact position of the missing sec. cor.; but finding in the original field notes of E. 1/2 of S. bdy. of sec. 32 a number of bearings and intersections with permanent objects still extant I locate the exact position of original cor. and reestablish the same as follows.

I set a granite stone 20 x 10 x 8 in. 13 in. in the ground for cor. of secs. 4-5-32 and 33 marked with 4 notches on E. and 2 notches on W. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.

Thence I run

West bet. secs. 5 and 32.

Over mountainous land.

Ascending steep S. E. slope to

2.00 Top of spur runs S. 25 ft. above cor.

Resurvey of S. bdy T. 2 S. R. 3 E.

chains	
	Begin descent on broken S.W. slope
7.50	Old road bears N.W. and S.E.
11.00	Road bears N.W. and S. 42° E.
	Temporary flagstaff on Emma mine just in place of original one bears N. 38° W.
20.12	Bottom of ravine 30 ft. deep drains S. 140 ft. below Spur. — Ascending
24.47	U.S. Mineral Monument No. 3 Little Cottonwood Mining Dist. being a large mound of big stones on the flat top of limestone ledge on point of spur running S. bears S. 7 lks. dist.
	Flagstaff Mine bears N. 45° 30' W.
	Montezuma Mine bears N. 16° 30' E.
	Temporary flagstaff on Emma mine above described bears N. 66° 15' E.
	Saw-mill in Alta City mentioned in original field-notes entirely obliterated and no bearing can be had to it
	Descending W
26.30	Head of draw drains S. — Ascending gradually
28.31	Old road now unused bears S.W. and N.E.
29.20	Level, graded place indicating site of house or cabin swept clean by snowslide
33.20	Ravine 20 ft. deep. drains S.
36.50	Old road now unused bears N.W. and S.E.
40.00	Point of original 1/4 sec. cor. no trace of which can be found therefor.
	I set a limestone 22 x 15 x 9 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face
	from which: U.S. Mineral Monument No. 3 bears S. 89° 44' E. 5.54 chs.
	A pine tree 5 ins. diam. bears S. 29° 17' W. 67 lks. dist. marked 1/4 S. 5 B.T. — no other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	Elm cor. stands 70 ft. above head of hollow on S. slope
	Land mountainous
	Soil rocky and gravelly 4th rate
	No timber. —
	Mountainous land 4.00 chs. —

June 4. 1902

June 5: Having completed the survey of S. and on

Resurvey E. bdy. T. 2 S. R. 3 E.

Chains	bdys. of Tp. and finding I can not make a proper closing with data now at hand it becomes necessary to make a retracement of previous surveys of N. and E. bdys. to locate the error. I therefor go to the cor. of T. 1 and 2 S. R. 2 and 3 E as heretofore described and run East on a blank retracement line along the N. bdy. of T. 2 S. R. 3 E. noting the distance and falling at each cor. finding constantly a large error in the claiming until I reach the N.E. cor. of Tp. where finding I am still unable to make a proper closing I continue my blank line South along the East boundary of T. 2 S R. 3 E. to the 1/4 sec. cor. bet. secs. 1 and 6 thence S. 1° 35' W. to the cor. of secs. 25-30-31 and 36 whence I run South to the S.E. cor. of Tp. noting the distance and falling of each cor. throughout and having found material errors and deficiencies all along, I make the following resurveys. —
	From the closing cor. of T. 2 and 3 S. R. 3 E. as heretofore described I run
	North- bet. secs. 31 and 36
	Over mountainous land
	Descending gradually over rock-slide in timber
8.10	Ravine draining N. 75° E. 30 ft. deep.
29.00	Leave boulder and rock-slide course E and N.
29.70	Head of White Pine Creek 8 ft. wide course E in head of hollow 100 ft. below cor.
	Ascending
33.00	Top of spur runs E. 90 ft. high. — Descend
37.50	Intersect the original 1/4 sec. cor. which is a small stake lying on the ground properly marked and witnessed as described by the surveyor general. Stake being old and rotten, in its place I set a granite stone 17 x 7 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face. raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
41.00	S. edge of small lake nearly circular I offset E 5.50 chs. thence N. 6.00 chs. thence W. 3.50 chs. to
47.00	N. edge of lake draining E. 30 ft. below shore. — Ascend.

Resurvey of E. bdy. T 2 S R 3 E.

chains	
57.60	Top of spur runs E 40 ft. high. — Descend
70.50	Head of gulch draining E. 150 ft. deep. —
	Begin abrupt ascent
77.59	By carefull search I locate the original mound of stones of cor. of secs. 25-30-31 and 36 at this point but stake could not be found therefor. I set a granite stone 18×9×8 ins. 12 ins. in the ground for cor. of secs. 25 and 36 marked with 1 notch on S. and 5 notches on N. edges raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable: Whence U.S. Mineral monument No 7 Big Cottonwood Mining Dist. bears N. 32°38' W. 58.38 chs. The mouth of an old partly caved tunnel at a point where a door was fitted bears N. 32°17' E 69 lks. Note: I failed to find the closing cor. of secs 30 and 31 at 3.10 chs. S. of this cor. as described by the surveyor general. —
	Land Mountainous
	Soil gravely and rocky 3rd and 4th rate.
	Timber pine of fair size but thin growth —
	Mountainous land 77.59 chs. —
	June 8: at 4h 56m p.m. l.m.t. — I set off 40°36'30" N on the lat. arc 22°51' N. on the decl arc and determine a true meridian with the solar at the cor. of secs. 25 and 36
	Thence I run
	N. 0°54' W. bet. secs. 25 and 30
	Over mountainous land
	Ascending abruptly
12.00	Top of ridge bears S. 60° W. and N. 60° E. 4.20 ft. above cor.
	Begin descent on broken slope
40.00	Set a porphyry stone 18×10×8 ins. 12 ins. in the ground for 1/4 sec. cor. of sec. 25 marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	A pine tree 9 ins. diam. bears S. 74°12' W. 37 lks. dist. marked 1/4 S. 25 B.T.
	No 1/4 sec. cor. could be found bet. secs. 25 and 30 as described by the surveyor general. —

Resurvey of E. bdy T. 2 S. R. 3 E.

Chains	
43.92	Road from Park City to Brighton bears E. and W.
49.50	Dry wash in head of Thanes gulch course N. E. 350 ft. below ridge
59.00	Old road bears N. E. and S. W. – Begin ascent
59.50	Old dug road bears N 30° E and S. 30° W.
88.40	The closing cor. of secs. 19 and 30 which is a stone firmly set marked and witnessed as described by the surveyor general: Whence U.S. Mineral Monument No 7 Big Cottonwood Mining bears S. 37° 37' W. 49.40 chs. –
89.20	Top of ridge bears N. E and S. W. 350 ft above gulch. – Descend
91.62	The cor. of secs. 24 and 25 which is a stone firmly set marked and witnessed as described by the surveyor general
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber a few trees scattering, in head of gulch
	Mountainous land 91.62 chs. –
	June 8 1902
	June 9: at 7h 10m a.m. I set off 40° 37' N on the lat. arc 22° 54' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 24 and 25
	Thence I run
	N. 0° 3' E bet. secs. 19 and 24
	Over mountainous land
	Descending
7.10	Old road bears N. 75° E. and S 75° W.
34.00	Enter dry wash in bottom of gulch from S. 25° W turns N. 250 ft. below cor.
36.00	Leave wash turns N. 10° E
	Thence in bottom of gulch; gradual descent
38.34	The 1/4 sec. cor. which is a stone firmly set and marked as described by the surveyor General. –
	I raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. Pits impracticable
	Thence I run
	N. 2° 27' E. bet. secs. 19 and 24

Resurvey of E. bdy. T. 2 S. R. 3 E.

Chains	
40.75	The closing cor. of secs. 18 and 19 which is a stone firmly set marked and witnessed as described by the surveyor general
43.75	The cor. of secs. 13 and 24 which is a stone firmly set marked and witnessed as described by the surveyor general
	This cor. stands 200 ft. below the 1/4 sec cor.
	Land mountainous
	Soil gravely 3rd rate
	Timber, a few scattering pine
	Mountainous land 82.12 chs. —
	N. 2° 20' E bet. secs. 13 and 18
	Over mountainous land
	Descending gradually in timber
8.00	Leave timber course E. and W.
40.45	The 1/4 sec. cor which is a sandstone 17 x 10 x 5 ins. set 5 ins. in the ground marked 1/4 on N.W. face mound scattered. — I reset stone 12 ins. in the ground marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Thence I run
	N. 3° 41' E. bet. secs. 13 and 18
.40	Dry wash in bottom of gulch course N. 30° W. 270 ft. below sec. cor.
	Begin gradual ascent
13.00	Enter aspen timber course E. and W.
57.94	The closing cor. of secs. 7 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general. —
40.01	The cor. of secs. 12 and 13 which is a stone firmly set marked and witnessed as described by the surveyor general. — This cor. stands 200 ft above wash
	Land mountainous
	Soil gravely 3rd rate
	Timber, aspen of small size and dense growth — and a few pine scattering. —
	Mountainous land 81.36 chs. —
	June 9. At this cor. I set off 22°55' N. on

Resurvey East boundary of T. 2 S. R. 3 E.

Chains	
	the decl. arc and at 11h 59m a.m. l.m.t. observe the sun on the meridian: the resulting lat. is 40° 39' N.
	N. 0° 56' E. bet. secs. 7 and 12
	Over mountainous land
	Along steep broken W. slope in timber
	Descending to
6.50	Dry wash in bottom of gulch 40 ft. deep course N. 80° W. Begin ascent
30.00	Enter pine and aspen timber bears E. and W.
33.00	Top of spur runs N. 60° W. 290 ft. above gulch Descend
40.14	The 1/4 sec. cor. which is a sandstone 16 x 11 x 6 ins. lying on top of ground marked 1/4 on down face: I reset stone 11 ins. in the ground marked 1/4 on W. face from which
	Original bearing tree, a pine 8 ins. diam bears E. 4 lks. dist marked 1/4 S. B.T.
	Original bearing tree, a pine 8 ins. diam. bears W. 5 lks. dist. marked 1/4 S B.T.
	Thence I run
	N. 1° 48' E. bet. secs. 7 and 12
13.00	Bottom of hollow drains N. W. 275 ft. below spur. – ascend
34.50	Top of spur runs N. 30° W. 290 ft. above hollow Descending abruptly
38.96	No trace of the closing cor. of secs. 6 and 7 could be found
41.10	The cor. of secs. 1 and 12 which is a stone firmly set and marked as described by the surveyor general: I raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	This cor. stands 90 ft. below top of spur
	Land mountainous
	Soil gravely and rocky 3rd rate
	Timber aspen and pine
	Mountainous land 81.24 chs. –
	June 9, 1902
	June 10: at 7h 18m a.m. l.m.t. I set off 40° 40' N. on the lat. arc 22° 59' 30" N on the decl. arc and determine a true meridian with the solar at the

Resurvey of E. bdy T. 2 S R. 3 E.

Chains	cor. of secs. 1 and 12
	Thence I run
	N. 1° 48' E. bet. secs. 1 and 6
	Over mountainous land
	Descending abruptly in dense undergrowth
43.90	The 1/4 sec. cor. which is a stone firmly set marked and witnessed as described by the surveyor general.—
	This cor. stands at foot of slope course N.E and S.W. 430 ft. below sec. cor.
	Thence I run
	North bet. secs. 1 and 6
	Over rolling surface in dense undergrowth
19.00	Road to canon bears E and W.
19.57	Fence bears E. and W.
22.50	Snyder Creek 10 lks. wide course N.E.
40.00	The cor. of Tps 1 and 2 S. Rs 3 and 4 E. which is a stone firmly set marked and witnessed as described by the surveyor general.—
#83.90	Land mountainous and rolling bench
	Soil gravely wash 2nd and 3rd rate
	No timber
	Dense undergrowth of ashen maple and thorn
	Mountainous land and dense undergrowth - 83.90 chs
	Resurvey of North Boundary
	From the Tp. cor. above described I run
	N. 89° 48' W. bet. secs. 1 and 36
	Over cultivated land and gradual ascent
5.50	Fence bears N. and S. - Leave cultivated land
9.50	Enter dense undergrowth course N. and S.
13.20	Road to mountains bears N. 55° E. and S. 55° W.
28.00	Dry run in hollow drains N.E.
31.50	Fence bears N. 20° E. and S. 20° W. at foot of mountains 160 ft. above cor.
	Begin ascent on Mountainous land
41.40	The 1/4 sec. cor. which is a limestone firmly set and properly marked as described by the surveyor general. - The mound being scattered, I raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable.—
45.00	Top of spur running N.E. 130 ft. high - Descend

Resurvey of N. bdy. T. 2 S. R. 3 E.

Chains	
48.20	Bottom of ravine 30 ft. deep drains N.E.
	Ascending
75.00	Top of spur running N.E. 370 ft. above ravine
	Thence on gradual ascent, N. slope
82.90	The cor. of secs. 1-2-35 and 36 as found a limestone 18×8×6 ins. set 6 ins. in the ground mound scattered bearing) stumps as described by the surveyor general
51.40 / 31.00	I reset stone 12 ins. in the ground and recut notches which is partly scaled off, 1 on E. and 5 on W. edges: raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor.—Pits impracticable
	Land sloping bench and mountainous
	Soil gravelly crush 2nd and 3rd rate
	Timber a few pine and mahogany scattering
	Dense vale, maple and thorn undergrowth—
	Mountainous land and dense undergrowth 51.40 ch.
	June 10: At this cor. I set off 23° 00' N. on the decl. arc and at 11h 59' a m, I m t observe the sun on the meridian; the resulting lat. is 40° 40' 47" N.
	N. 89° 42'. W. bet. secs. 2 and 35—
	Over mountainous land
	Ascending gradually on N. slope through brush and brake
14.00	Top of ridge bears S. 75° E. and W. 80 ft. above cor.
31.00	Top of ridge bears S. 75° W.
	Begin descent on N. W. slope
38.00	Enter timber
41.40	The ¼ secs cor. which is a stone firmly set marked and witnessed as described by the surveyor general
68.10	Head of hollow drains N.E. 100 ft. below ridge
	Ascending gradually on N. E slope to—
82.76	The cor. of secs. 2-3-34 and 35 a sandstone firmly set marked and witnessed as described by the surveyor general, but broken off even with the ground therefor in its place I set a sandstone 17×8×5 ins. 11 ins. in the ground for cor. of secs. 2-3-34 and 35 marked with 2 notches on

Resurvey of N. bdy. T.2 S.R.3 E.

Chains	E and 4 notches on W. edges; mound being scattered I raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable This cor. stands on top of ridge course W. and S.80° E 150 ft. above head of hollow.— Land mountainous Soil gravely and rocky 3rd rate— Timber aspen of small size and scattering pine Mountainous land 82.76 chs.— June 10. 1902
	June 11: at 7h 2m a.m. l.m.t.—I set off 40°41' N. on the lat. arc 23°4' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 2-3-34 and 35— Thence I run N.89°42' W. bet. secs. 3 and 34 Over mountainous land Through timber and brake, along top of ridge Ascending gradually
20,50	Top of ridge runs N. and S. 100 ft. above cor. Descend
28,50	Enter bottom of gulch course N.E. 150 ft. below ridge.— Gradual descent to
31,00	Dry wash drains N.35° E
34,00	Begin ascent, leaving bottom of gulch
41,36	The 1/4 sec. cor. which is a limestone firmly set 5 in. above ground with marking partly scaled off and mound scattered.—I remark stone 1/4 on N. face and raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable.— Bearing trees I found as described by the surveyor general.—
43,00	Ascent becomes steep bears N. and S.
46,00	Leave timber and brake bears N. and S.
58,00	Summit of Wasatch Range, dividing Mill Creek from East Cañon; course N.W. and S.E. 520 ft. above gulch.— Descending
59,00	Enter aspen brake and scattering timber bears N.W. and S.E.

Resurvey of W. bdy. T. 2 S., R. 3 E.

Chains	
81.90	Old wood road bears N. and S.
82.30	Stream 3 lks wide, flows N. to Mill Creek, in gulch 390 ft. below divide. — Ascend
82.80	The cor. of secs. 3-4-33 and 34 which is a limestone firmly set 8 x 7 x 7 ins. above ground, notches on W. face sealed off and mound scattered; I remark stone with 3 notches on E. and W. edges and raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable I found bearing trees as described by the surveyor general Land mountainous Soil gravelly wash and bowlders 3rd rate Timber aspen of small size and dense growth and a few scattering pines. — Mountainous land 82.80 chs. —
	N. 89° 43' W. bet. secs. 4 and 33 Over mountainous land Ascending gradually, in timber
16.00	Top of spur runs N.W. 110 ft. above cor. — Descending over rolling surface near bottom of Mill Creek Canon
41.70	The ¼ sec. cor. which is a sandstone 14 x 10 x 6 ins. lying on top of ground; marked and witnessed as described by the surveyor general. — I reset stone 9 ins. in the ground marked ¼ on N. face, and raised the scattered mound 2 ft. base 1½ ft. high N. of cor.
49.80	Old wood road bears N.E. and S.W.
52.00	Old deserted Cabin bears S. about 3 chs.
53.10	Mill Creek 4 lks wide flows S.W. to join branch from S.E. about 2 chs. further on
57.50	Mill Creek 6 lks wide course N.W.
63.00	Mill Creek, County Road bears N.W. and S.E
63.50	Begin abrupt ascent; leave gulch
77.00	Top of spur running N. 180 ft. high. — Descend
83.52	Point for cor. of secs. 4-5-32 and 33. — Stone gone and mound scattered but exact cor. point located from bearing trees which I found as described by the surveyor general. —

Resurvey of N. bdy. T. 2 S. R. 3 E.

Chains	I set a sandstone 18 x 7 x 4 ins. 12 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 raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable This cor. stands on W. slope 60 ft. below spur Land Mountainous Soil gravely 3rd rate Timber, aspen of small size and scattering pine Mountainous land 83.52 chs.— June 11: at this cor. I set off 23°4'30" N. on the decl. arc and at 11h 59m a.m., 1 m.? observe the sun on the meridian: the resulting lat. is 40°40'47" N.—
	N. 89° 43' W. bet. secs. 5 and 32 Over mountainous land Descending, scattering timber and undergrowth
11,20	Old wood road bears N. 20° W and S. 20° E
16,60	Stream 3 lks. wide drains N in bottom of gulch 200 ft. below cor.— ascend
24,50	Top of spur runs N. 25° W. 90 ft. high.— Descend
34,90	Dry wash in bottom of hollow 120 ft. below spur, drains N 30° W.— ascend
41,80	The 1/4 sec. cor. as found, a limestone 14 x 9 x 4 ins. set 3 ins. in the ground marked 1/4 on N. face; Mound scattered; bearing trees as described by the surveyor general.— I reset stone 9 ins. in the ground marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
46,00	Top of spur runs N. 20° W. 110 ft. high.— Descend
58,36	Stream 4 lks. wide flows N. 30° W. in bottom of gulch 130 ft. below spur.— Ascend
69,00	Top of spur runs N. 90 ft. high. Descend
80,00	Old wood road bears N. and S.
81,66	Stream 5 lks. wide flows N. in bottom of gulch 125 ft. below spur.— Ascend
83,48	The cor. of secs. 5-6-31 and 32 as found; a quartzite stone firmly set 10 x 7 x 6 ins above ground, with

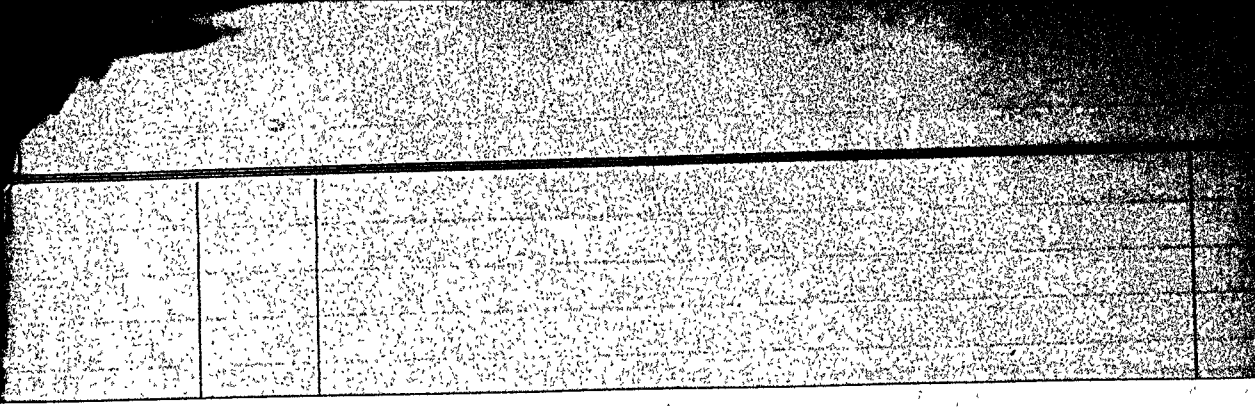
Resurvey of W. bdy. T. 2 S. R. 3 E.

Chains	
	notches indistinct and mound scattering; bearing trees as described by the surveyor general
	I remark stone with 1 notch on W. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land mountainous
	Soil gravely 3rd rate
	Timber ashes of small size and dense growth and scattering pine trees. -
	Dense brake and underbrush
	Mountainous land 83.48 chs. —
	West bet. secs. 6 and 31
	Over mountainous Land
	Ascending in scattering timber and undergrowth -
3.30	Top of ridge runs N. 50 ft. above cor. - Descending
5.30	Dry run in bottom of hollow 40 ft. deep drains N.
	Ascending on broken slope
31.00	Top of ridge runs N. 350 ft. high. - Descend
41.37	The ¼ sec. cor. as found, a sandstone 14 x 8 x 6 in. nearly washed out of ground and mound scattered bearing trees as found as described by the surveyor general. -
	I reset stone 9 in. in the ground marked ¼ on N. face; raised a mound of stones 2 ft base 1½ ft. high N. of cor. Pits impracticable
42.00	Dry arch in bottom of gulch 240 ft. below - ridge course N. 20° E. - Ascending abruptly to -
60.30	Top of ridge runs N. 250 ft. high. - Descending
70.36	The cor. of Tps 1 and 2 S. Rs 2 and 3 E. as heretofore described. -
	This cor. stands 130 ft. below top of ridge
	Land mountainous
	Soil gravely 3rd rate
	Timber ashes of small size and dense growth and scattering pine trees. - Dense undergrowth
	Mountainous land 70.36 chs. -

June 11 1902

For general description see Survey of S. and W. bdys of 4th.

Andrew P. Ormsby
U.S. Dep. Surv.



BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

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

_____

showing the respective capacities in which they acted:

_____, *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

316

BOOK A-293

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of 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, Sept. 17, 1903.

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

executed by Andrew P. Hansen under his contract No. 94, dated April 12, 1901, 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.

6—151

BLANK

PAGE

BLANK

PAGE

Exd JAMY

4—679.

O.

BOOK A-293

FIELD NOTES

N.J.B.

OF THE Re. SURVEY and Retracement OF THE

Subdivision Lines

of

Township No. 2 South - Range No. 3 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 244, dated April 12, 1901

Survey commenced June 12, 1902

Survey completed June 25, 1902

6—151

Resurvey

high M. ds. lks.
9 - 74 - 38
Retracement
78 - 40

M M con. 50.76

NAMES AND DUTIES OF ASSISTANTS.

Edward L. Jones Jr	Chainman
Willis B. Boyles	"
Edward L. Jones Jr	Rodman
Harold L. Hobbs	"
Willis B. Boyles	Axeman
Frank Hyde Jr	"
Harold L. Hobbs	Flagman

BOOK A-293

INDEX DIAGRAM.

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

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

12
13 11 10
6
8
3
9 5 2
14 5 1

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Edward L Jones Jr and Willis B Bootes 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 Subdivision lines of Tp. 2 S. R. 3 E. & of Tp. 1 S. R. 2 E.

Edward L. Jones Jr., Chainman.
Willis B. Bootes, Chainman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

We, Edward L Jones Jr. and Harold L Hobbs 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 re survey of Subdivision lines of Tps. 2 S. R. 3 E. & of Tp. 1 S. R. 2 E.

Edward L. Jones Jr., Moundman.
Harold L Hobbs, Moundman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

We, Willis B Bootes and Frank Hyde Jr 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 re survey of Subdivision lines of Tp. 2 S. R. 3 E. & of Tp. 1 S. R. 2 E.

Willis B. Bootes, Axman.
Frank Hyde Jr., Axman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

I, Harold L Hobbs, 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 Subdivision lines of Tp. 2 S. R. 3 E. & of Tp. 1 S. R. 2 E.

Harold L Hobbs, Flagman.

Subscribed and sworn to before me this 2nd day of June, 1902

Sam Raney
Notary Public

6—161

Resurvey of Subdivision lines T. 2 S. R. 3 E.

Claim

Survey commenced June 12 1902 and executed with a W & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with ~~two~~ double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. —
The Instrument was examined, tested on the true meridian at Salt Lake City found correct and was approved by the surveyor general for Utah April 13. 1901.
Having this day tested the adjustments of the instrument on the True Meridian established June 4. 1902. from Polaris, as described at beginning of survey of subdivision lines of this Tp. Book No. I deem it unnecessary to again describe said test here. —

Having commenced the subdivision of this Tp. at cor. of secs. 1-2-35 and 36 on S. bdy. as described in Book No and run N 0°1' W on a random line bet. secs. 35 and 36: at 77.46 chs being the theoretical distance of this line I make a carefull search for the cor. of secs. 25-26-35 and 36 as described by the surveyor general, and find a dry pine stump 23 ins. diam. blazed and scribed B.T. on W. side and thinking this is possibly the bearing tree in sec. 25, at a point S 72° 0' W 36 lks. I dig up the soil and discover the sharpened point of a pine post very rotten and identify the same as the original cor. of secs. 25-26 35 and 36. which I reestablish as follows:
Set a granite stone 18 x 10 x 7 ins. 12 ins. in the ground for cor. of secs. 25-26-35 and 36 marked with 1 notch on S. and E. edges from which
Dry stump 23 ins diam. of original bearing tree bears N. 72° 0' E 35 lks dist marked B.T. under blaze
A pine tree 3 ins. diam bears N 68° 60' W. 48 lks. dist. marked T. 2 S. R. 3 E. S. 26 B.T.
A pine tree 5 ins diam. bears S. 25° 10' E. 66 lks. dist. marked T. 2 S. R. 3 E. S. 36 B.T.

Resurvey of subdivision lines T. 2 S. R. 3 E.

chains	A pine tree 4 ins. diam. bears S. 38°14' W. 21 lks. dist. marked T. 2 S. R. 3 E. S. 25' B.T.
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Desiring to check my own work and learn the status of the older survey I run from above described cor
	East on a blank retracement line bet. secs. 25 and 36
	At 40.00 chs. the point of original ¼ sec. cor which was not found but its position located from the bearing trees, bears S. 36 lks. – At 79.95 intersect E. bdy of Tp. 35 lks. N. of cor. of secs. 25-30-31 and 36 as reestablished by me June 8, 1902 and described in Book M.
	The line being irregular and the ¼ sec cor missing I make the following resurvey. –
	I begin at the above mentioned cor. of secs. 25-30-31 and 36 on E. bdy. of Tp.
	Thence I run
	West bet. secs. 25 and 36
	Over mountainous land
	Ascending abruptly
3.00	Limestone ledge bears N. and S. 10 ft. high
14.50	Summit of Wasatch Range bears N. and S. 300 ft. above cor. Descend
30.50	Dry wash drains N. 50° W 200 ft. below summit
	Thence along N. slope.
	Enter timber course N.W. and S.E.
39.95	The ¼ sec. cor. not found but its exact position determined from bearing trees as described by the surveyor general
	I set a granite stone 17 x 8 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face from which
	A pine tree 8 ins. diam bears N. 18°10' E. 39 lks. dist. marked ¼ S. 25' B.T.
	A pine tree 10 ins. diam. bears S 2°15' E 19 lks. dist. marked ¼ S 36 B.T
	The original bearing trees being dry and partly rotted hence my reason for marking new ones
	Thence I run
	N. 89°29' W bet secs. 25 and 36.
2.25	Descending gradually on broken N. slope
6.24	Dry wash in ravine 15 ft. deep. course N. 20° W

Resurvey of subdivision lines of T. 25 S. R. 3 E.

Chains	
	Leave big pine and enter young timber
22.00	A miners cabin bears S. about 3 chs.
27.56	Stream 3 lks wide flows N. 20° W.
34.73	A square pine post firmly set and scribed 3-4-46 S 8 bears S. 15 lks.
40.00	The cor. of secs. 25-26-35 and 36
	This cor. stands 340 ft. below the summit
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	Timber pine and aspen mostly young growth on burnt area. -
	Mountainous land 79.95 chs. —
	June 12: at this cor. I set off 23° E. on the decl. arc and at 11h 59m a.m, P.M.T observed the sun on the meridian; the resulting lat. is 40° 36' 30" N.

In order to locate the cor. of secs. 23-24-25 and 26 of which I can gain no knowledge I run North on a blank retracement line bet. secs. 25 and 26

At 39.49 chs. the point of original 1/4 sec. cor. bears E. 2 chs. and at 79.40 I intersect the point of original cor. of secs. 23-24-25 and 26 a trace of which was found and identified, being part of the mound of stones placed around the cor. post. — The post cor. not bearing tree described by the surveyor general could not be found. —

I reestablish said cor. as follow—

Set a granite stone 18 x 8 x 7 ins. 12 ins. in the ground for cor. of secs. 23-24-25 and 26 marked with 1 notch on E and 2 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. -

Pits impracticable. -

The measurement of this line being defective and the 1/4 sec cor. missing I make the following resurvey

South - bd. secs. 25 and 26.

Over mountainous land.

Descending

5.00	Enter timber course E. and W.
30.30	Old road bears E. and W.

Resurvey of Subdivision lines T.2 S.19.36.

Chains	
30.80	Stream 5 lks. wide flows W. in bottom of gulch 300 ft. below cor. Ascend
39.91	Point of original 1/4 sec. cor., the exact location being determined from bearing trees the dry and partly rotted stumps of which was found as described by the surveyor general. – No trace of the post cor. found I set a granite stone 18x9x5 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face from which A pine tree 3 ins. diam. bears N. 80°10' E. 30 lks. dist. marked 1/4 S. 25 B.T. A pine tree 4 ins. diam. bears N. 66°2' W. 26 lks. dist. marked 1/4 S. 26 B.T.
41.61	Road from Park City to Brighton bears N. 80° E and S. 80° W.
50.00	Top of spur runs W. 200 ft. above gulch. – Descend
63.40	Same road bears N. 70° W. and S. 70° E.
64.80	Stream 4 lks. wide flows W. in bottom of gulch 180 ft. below spur. – Enter dense willow brush. – Leave timber
68.95	Stream 3 lks wide flows N. 70° W.
69.50	Begin ascent. – Leave Willow. – Enter timber
72.30	Same road bears N.E. and W
79.40	The cor. of secs. 25-26-35 and 36 This cor. stands 80 ft. above gulch Land mountainous Soil gravely wash 3rd rate Timber, pine of young growth – on burnt area, mainly Mountainous land 79.40 chs. – June 12. 1902

June 15: Staving in the progress of subdivision of this Tp. run N. 0°1' W on a random line bet. secs. 34 and 35 and failed to find the 1/4 sec. cor. bet. secs. 34 and 35 as described by the surveyor general. I go to the reestablished cor. of secs. 25-26-35 and 36 as heretofore described and run West on a blank retracement line bet. secs. 26 and 35.
At 39.36 chs. the 1/4 sec. cor. bears N. 17 lks. and at 79.36 I find a trace of the cor. of secs. 26-27-34 and 35 bearing N. 34 lks. from whence I continue my blank line South bet. secs. 34 and 35. At 39.80 chs.

Resurvey of subdivision lines T2SR3E

Chains	after a carefull search I discover the original post 1/4 sec. cor. lying partly covered in the ground and badly rotted but markings still identifiable, bearing E. 21 lks. dist. and reestablish same as follows.
	Set a granite stone 18×9×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Original bearing trees burnt and gone and no bearing trees available.
	Corners being in part destroyed, courses and distances defective I make the following resurveys
	I begin at the reestablished 1/4 sec cor. bet. secs. 34 and 35 above described
	Thence I run
	N 0° 18' W. bet. secs. 34 and 35 —
	Over mountainous land
	Descending, in burnt fallen timber
12,00	Enter level meadow course E. and W. 100 ft. below cor.
12,80	S. edge of Silver Lake, shallow water, circular in form
	I turn an angle of 90° and run S 89° 42' W 10.00 chs
	thence N 0° 18' W 11.00; thence N 89° 42' E 10.00 chs to
23,80	N. shore of lake
24,50	Begin gradual ascent. — Enter timber
28,80	Top of spur runs N.E 40 ft. high — Descend
39,80	The cor. of secs. 26-27-34 and 35, not found but its exact position established from the burnt and partly rotted bearing trees which I fully identified. —
	I set a granite stone 18×10×6 ins. 12 ins. in the ground for cor. of secs. 26-27-34 and 35 marked with 1 notch on S. and 2 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable. —
	This cor. stands 90 ft. below spur
	Land mountainous
	Soil gravely and rocky 3rd rate —
	Timber pine and ash
	Mountainous land 39,80 chs. —
	S 89° 45' E. bet. secs. 26 and 35 —
	Over mountainous land

Reservey of subdivision lines T 25 N R 9 E.

Chains	
	Descending gradually, in timber, along fence
20,00	Fence turns S.
33,40	Big Cottonwood Creek 16 lks. wide flows N. 10° W in bottom of gulch 215 ft. below cor.
	Begin ascent
34,40	Stream 4 lks wide flows N.W.
35,20	County road from Brighton Hotel and Silver Lake Post Office located near the centre of N.W 1/4 of sec. 35 to Salt Lake Valley bears N. and S.
40,00	The 1/4 sec cor. as found, post lying partly buried in the ground and rotten, bearing tree in sec. 35 in place. I set a granite stone 18x8x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Original bearing tree an aspen 12 ins diam. bears S 20° W. 100 lks dist. marked B.T. I mark 1/4 S. 35 A pine tree 10 ins. diam bears N 80° 45' W 64 lks. dist. marked 1/4 S. 26 B.T.
60,00	Enter slide rock and cliff ascent
62,00	Top of spur ridge N.W. 320 ft. above creek Thence on N. slope and gradual ascent. Leave slide
79,36	The cor. of sec. 25-26-35 and 36 Land mountainous Soil gravely and rocky 3rd rate Timber pine and aspen of good quality Mountainous land 79.36 chs. — June 15: At this cor. I set off 23° 18' 30" N on the declination and at 12 4 m, 7 m I observed the sun on the meridian the resulting lat. is 40° 36' 25" N.

To locate the cor. of sec. 14-15-22 and 23 of which I can obtain no information I go W. to the cor of secs. 23-24-25 and 26 as heretofore described.
Thence I run
N. 89° 29' W. on a blank retracement line bet. secs. 23 and 26: at 40,04 no trace of old 1/4 sec. cor. could be found: at 79,60 The cor. of secs. 22-23-26 and 27 bears S. 42 lks. and containing my line as before.
North bet. secs. 22 and 23: at 39,54 intersect the point of the 1/4 sec cor: located from bearing tree found in place: at 79,36 intersect the cor of secs 14-15-22 and 23 as found; being a post sticking in the

Resurvey of subdivision lines T. 2 S. R. 3 E.

Chains	ground very much decayed but markings discernible
	The bearing trees found as described by the surveyor
	general but markings much distorted and indistinct
	I reëstablish said cor as follows
	Set a limestone 17×9×6 ins. 12 ins. in the ground
	for cor. of secs. 14-15-22 and 23 marked with 2
	notches on E and 3 notches on S. edges; from which
	An aspen tree 8 ins. diam. bears N. 17° E 27 lks.
	dist. marked T 2 S R 3 E S 14 B.T.
	An aspen tree 10 ins. diam. bears N. 22° W 18 lks.
	dist marked T. 2 S. R. 3 E. S 15 B.T.
	An aspen tree 7 ins. diam. bears S. 5° W. 10 lks.
	dist. marked T. 2 S. R. 3 E., S. 22 B.T.
	An aspen tree 10 ins. diam. bears S. 80° E. 24 lks.
	dist. marked T. 2 S. R. 3 E. S. 23 B.T.
	The corner being in part destroyed and survey defective
	I make the following resurveys
	South - bet. secs. 22 and 23
	Over mountainous land
	Descending in aspen timber
0.40	Leave timber which is a small bunch around cor.
6.30	Old wood road bears N.W. and S.E.
6.70	Bottom of hollow drains W. 60 ft. below cor.
	Ascending. - Ended timber course E and W.
7.80	Same road bears S.W.
36.50	Top of spur runs W. 300 ft. above hollow. - Descend
39.82	The point of original cor. not found but located from bearing
	trees in sec. 23 found as described by the surveyor general
	I set a limestone 12×6×4 ins. 8 ins. in the ground
	for 1/4 sec. cor. marked 1/4 on W. face, from which
	Original aspen bearing tree 7 ins. diam bears N. 20° E.
	25 lks. dist. marked 1/4 S 23 B.T.
	An aspen tree 5 ins. diam. bears West 6 lks. dist. marked
	1/4 S. 22 B.T.
	Leave timber bears E. and W.
46.00	Ended timber bears E. and W.
68.70	Road to American Mine bears E. and W.
70.12	Stream 10 lks. wide flows W. in bottom of gulch 450
	ft. below spur. - Ascending gradually
74.57	Old road bears E. and W. on top of spur 40 ft. high
	running N.W. - Descending gradually to
79.36	The cor. of secs. 22-23-26 and 27 as found, being a

Resurvey of subdivision lines T.2 S. R.3 E.

chains	stake very much decayed but markings discernible, partly buried in the ground but located from bearing tree in sec. 27 which was found in place and marked as described by the surveyor general
	I set a granite stone 17×8×4 in. 11 in. in the ground for cor. of secs. 22-23-26 and 27 marked with 2 notches on E. and S. edges from which
	An aspen tree 6 ins diam. bears N. 78° 49' E 33 lks. dist. marked T. 2 S. R. 3 E. S 23 B.T.
	An aspen tree 4 in. diam. bears S 40° 22' E 21 lks. dist. marked T. 2 S. R. 3 E. S. 26 B.T.
	An ashen tree 9 in. diam. bears S 20° 22' W 30 lks. dist. marked T. 2 S. R. 3 E. S. 27 B.T.
	An ashen tree 8 in. diam. bears N. 69° 0' W. 44 lks. dist. marked T. 2 S. R. 3 E. S. 22 B.T.
	Land mountainous
	Soil gravely wash 3rd rate
	Timber pine and scattering aspen
	Mountainous land 79.36 chs. —
	S. 89° 47' E. bet. secs. 23 and 26
	Over mountainous land
	Ascending, in timber
4.00	Top of spur runs N.W. 40 ft. above cor.
	Begin gradual descent
13.00	Old road bears S.E. and N.W. — Leave timber
16.86	Stream 10 lks. wide flows N.W. in bottom of gulch 50 ft. below spur. — Ascending
20.00	Enter timber bears N.W. and S.E.
39.80	The proportionate distance. — Set a quartzite stone 17×8×6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	An ashen tree 9 in. diam. bears N. 24° 10' W 44 lks. dist. marked 1/4 S. 23 B.T.
	An ashen tree 4 in. diam. bears S. 9° 0' E. 27 lks. dist. marked 1/4 S 26 B.T.
	No trace of original cor. could be found
70.80	Leave timber bears N. W. and S.E.
79.60	The cor. of secs. 23-24-25 and 26
	This cor. stands 800 ft. above the gulch. —
	Land mountainous
	Soil gravely wash 3rd rate

Resurvey of subdivision lines T.2S.R.3E.

chains	Timber aspen and a few scattering pine Mountainous land 79.60 chs. — June 15, 1902
	June 17: To locate the 1/4 sec. cor. bet. secs 27 and 34 of which I can gain no information I go to the cor. of secs. 26-27-34 and 35 as before described whence I run West on a blank retracement line bet. secs. 27 and 34: At 39.00 chs. I fall 28 lks S. of the original 1/4 sec. cor. as found a pine stake very much decayed, but marking plainly decernible as described by the surveyor general. — Its exact position was determined by one of the bearing trees found standing I reestablish said cor. as follow. — Set a granite stone 26 × 11 × 7 ins. 20 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Original bearing tree an aspen 10 ins. diam. bears N 22° W. 97 lks dist marked 1/4 S. 27 B.T. Original bearing tree in sec. 34 not found but rotten stump marks its place. — No other trees within limit Raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable Thence I run S. 89° 36' E. bet. secs. 27 and 34 Over mountainous land Ascending
2.00	Enter timber course N. and S
12.10	Top of sharp ridge runs N. and S. 250 ft. above cor. Descend abruptly
19.00	Descent becomes more gradual
39.00	The cor. of secs. 26-27-34 and 35 This cor. stands 240 ft. below ridge Land mountainous Soil rocky and gravely 3rd rate Timber pine and aspen. thin growth — Mountainous land 39.00 chs. June 17, 1902
	June 18: In order to locate the cor. of secs. 15-16-21 and 22 of which I can gain no knowledge, I go to the cor. of secs. 14-15-22 and 23 as heretofore

Resurvey of Subdivision lines of T 25 R 3 E

1	Chains	described and runs N 89° 20' W on a blank reclamation line bet. secs. 15 and 22. - At 40.23 chs. no trace of the 1/4 sec. cor. as described by the surveyor general could be found. - At 79.76 chs. the cor. of secs. 15-16 21 and 22 as found bears N. 4 E. 11 lks. - The original post cor. much decayed but markings plainly discernible was found lying buried in the ground and its exact position was determined from old dry stump of the bearing tree in sec. 22, the only one found in place. I set a granite stone 17 x 8 x 6 ins. 12 ins. in the ground for cor. of secs 15-16-21 and 22 marked with 3 notches on S. and E. edges from which An ashen tree 5 ins diam. bears N 87° 30' E 14 lks. dist., marked T. 2 S. R. 3 E. S 15 B. T.
		An ashen tree 5 ins. diam. bears N 31° 5' W. 21 lks. dist. marked T 2 S R 3 E S. 16 B. T.
		An ashen tree 4 ins. diam. bears S. 61° 15' W 4 lks. dist., marked T. 2 S. R. 3 E. S. 21 B. T.
		An ashen tree 4 ins. diam. bears S 24° 20' E 27 lks. dist. marked T. 2 S. R. 3 E. S. 22 B. T.
		Thence I run, on resurvey line
		S 89° 06' E. bet. secs. 15 and 22
		Over mountainous land
		Ascending on S.W. slope in dense ashen brake and undergrowth -
17.76		Top of spur runs S. 200 ft above cor. - Descending
35.00		Enter bottom of gulch bears N.E. and S.W. 175 ft. below spur. -
36.75		Stream 6 lks wide flows S. 30° W. in open gulch
39.88		The proportionate distance. - Set a granite stone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft base 1½ ft. high N. of cor. Pits impracticable
45.12		Enter swampy slough runs N.W. and S.E.
		Home of J. Cook bears S. 3.90 chs. dist. - It is called by him "Willow Slough" an embryo summer resort
50.30		Stream 2 lks wide drains S.
52.20		Leave bottom of gulch runs N. and S.
		Ascending, in timber
73.50		Old wood road bears N 20° W and S 20° E
		Leave timber runs parallel with road

Resurvey of subdivision lines T 2 S R 3 E

Chains	7940 Enter aspen timber
79.76	The cor. of secs. 14-15-22 and 23
	This cor. stands 300 ft. above gulch
	Land mountainous
	Soil gravely wash 3rd rate
	Timber aspen of large size
	Mountainous land 79.76 chs. —
	June 18: at this cor. I set off 23°25' N. on the decl. arc and at 12h 1m p.m., 1 m.t. observe the sun on the meridian. The resulting lat. is 40° 38' N.
	June 15, 1902
X	June 19: In order to locate the cor. of secs. 16-17-20 and 21 of which I can gain no knowledge I return to the cor. of sec. 15-16-21 and 22 as heretofore described and run N 89° 52' W. on a blank retracement line bet. secs. 16 and 21: At 38.90 chs. the point of original sec. cor. not found but located from the dry stump of bearing tree in secs. 21 which was found standing marked B.T. under blaze on N. side, bears N. 26 lks. — At 78.40 the cor of secs. 16-17-20 and 21 not found but located from stump of bearing tree in sec. 17 found standing marked B.T. under blaze on S.E. side bears N 17 lks. dist.
	I set a quartzite stone 17 x 9 x 6 ins 12 ins. in the ground for cor. of secs. 16-17-20 and 21 marked with 3 notches on S. and 4 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. on top of a ledge of white quartzite 1 ft above ground
	From cor. point the dry partly decayed stump of original bearing tree marked "B.T." bears N. 25° W. 33 lks. dist. the remaining bearing trees had been carried away by slides, but their locations fully identified by course and distance from the cor. point. —
	Thence I run.
	East bet. secs. 16 and 21, on resurvey line
	Over mountainous land
	Descending, in dense brake and brush
14.50	Stream 2 lks. wide drains N. at foot of slope 90 ft below cor. course N. W. and S.E.
	Enter bottom of gulch and swamp. — Enter timber
20.50	Big Cottonwood Creek 30 lks. wide flows N. 60° W. pure

Resurvey-Subdivision T 2 S R 3 E

Chains	
	fresh water
32.35	County road from Brighton to Salt Lake Valley bears N. 60° W. and S. 60° E.
39.60	Point of original 1/4 sec. cor. which was not found
	Set a Porphyry stone 18×10×4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	A pine tree 3 ins. diam. bears S. 39° 30' W. 40 lks. dist. marked 1/4 S 21 B.T.
	A pine tree 6 ins. diam. bears N. 45° 50' W. 45 lks. dist. marked 1/4 S 16 B.T.
	Stump of original bearing tree, pine, 22 ins. diam. marked "BT" under a blaze on N. side bears S. 6° W. 128 lks. dist
	Thence S 89° 30' E
40.60	Begin ascent course N.W. and S.E. Leave gulch and swamp
56.00	Enter slide rock and abrupt ascent course N.W. and S.E.
64.60	Limestone cliff 60 ft. high bears N.W. and S.E.
65.00	Top of cliff. – Leave timber course N.W. and S.E. enter brake
65.90	Top of spur running S. 340 ft. above gulch
74.10	Dry wash in hollow 125 ft. below spur drains S 30° W. Ascend
78.40	The cor. of secs. 15-16-21 and 22
	This cor. stands 60 ft. above wash
	Land mountainous
	Soil gravely and rocky and swamp along bottom of gulch. – 3rd and 4th rate
	Timber aspen of small size, and scattering pine
	Dense brake and brush
	Mountainous land 78.40 chs. –
	June 19. 1902

June 20: Having on subdivision line run South on random line bet. secs. 16 and 17 and failed to find any traze of the 1/4 sec. cor. as described by the surveyor general. I continue my line until at 78.20 chs. I fall 1.66 chs. W. of the cor. of secs. 16-17 20 and 21 as heretofore described.

Thence I run

North – bet. secs. 16 and 17 – on resurvey line

Over mountainous land

Descending, in aspen brake and undergrowth –

10.00	Descent becomes gradual
13.45	Big Cottonwood Creek 30 lks. wide flows N. 65° W. in bottom of gulch 150 ft. below cor.

Resurvey-subdivision of T. 25 R. 3 E

chains	
	Begin ascent
14,86	County road from Brighton to Salt Lake Valley bears N. 65° W and S. 65° E.
	ascent becomes abrupt
+0,00	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1± ft. high W. of cor.
	Pits impracticable. -
	No trace of original 1/4 sec. cor. could be found
	Elm cor. stands 3.60 ft. above creek
	Land mountainous
	Soil gravely and rocky 3rd rate
	No timber. -
	Brush maple and birch
	Mountainous land +0,00 chs. -
	June 20, 1902

June 23: On the subdividing of this Tp. having run east. on a random line bet. secs. 17 and 20 and at the proper place failed to find any trace of the 1/4 sec cor. I continue my random line until at 81,76 chs. from the cor. of secs. 17-18-19 and 20 I intersect the N. and S. line 2,00 chs. S. of the cor of secs. 16-17-20 and 21 as hereafter described. - Thence in order to reestablish said 1/4 sec cor.

	I run on resurvey line
	West bet. secs. 17 and 20
	Over mountainous land
	Ascending gradually on steep N. slope in scattering timber and undergrowth. -
1,10	Stream 1 chs wide flows N. in ravine 15 ft. deep
38,00	Top of ridge runs N. 15° W. 260 ft. above cor.
	Descending
+0,00	Set a limestone 17 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 stones 2 ft. base 1± ft. high N. of cor. Pits impracticable
	No trace of original cor. as described by the surveyor general could be found. -
	Land mountainous
	Soil gravely and rocky 3rd rate

Resurvey - Subdivision T 2 S R 3 E

Chain	Timber, a few pine and aspen trees scattering dense undergrowth. Mountainous land 40.00 chs. June 23, 1902

June 25: In order to make a proper closing of sec. 32. I go to the cor. of secs. 4-5-32 and 33 on S. bdy of Tp. as heretofore described and run north on a blank retracement line bet. secs. 32 and 33: At 39.90 chs. the 1/4 sec. cor. as found bears W. 20 lks. dist. and at 79.75 chs. the cor. of secs. 28-29-32 and 33 as reestablished by me and heretofore described bears W. 40 lks. dist. The survey being defective and the 1/4 sec. cor. nearly destroyed and requiring reestablishing I run S 0°17' E. bet. secs. 32 and 33. on resurvey line Over mountainous land

Ascending gradually on rolling E. slope in timber

39.85 The original post cor. marked 1/4 S. lying partly buried in the ground, alongside of a small mound of stones in the center of which I found the broken off point of said cor. post sticking in the ground The post being much decayed,

I set a limestone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable

From cor. point the branch of original bearing tree 10 ft. long 10 ins. diam. bears S. 69° 30' E. 3.12 chs. dist. marked B.T. and blaze. — U.S. Mineral Monument No. 1 Little Cottonwood Mining District bears S. 87° 52' E. 32.07 chs.

This cor. stands in a small flat at the head of Silver Fork Gulch 175 ft. above sec. cor.

41.25 Begin abrupt ascent course E. and cr.

57.30 Top of divide between Big Cottonwood and Little Cottonwood bears E. and W. 380 ft. above 1/4 sec. cor. — Second

74.12 Road from Alta to mines bears N.E. and S.W.

79.75 The cor. of secs. 4-5-32 and 33. — Whence U.S. Mineral Monument No. 1 Little Cottonwood Mining District bears N. 43° 59' E. 50.76 chs.

Land mountainous

Soil gravelly and rocky 3rd and 4th rate

Timber pine, scattering trees. —

Resurvey-Subdivision T. 2 S R 3 E - and Retracement

Mountainous Land 79.75 chs.

In order to make proper closing of sec 28 I commenced at the cor. of secs. 20-21-28 and 29 as heretofore described and run east on a blank retracement line bet. secs. 21 and 28. - At 39.24 chs I find the ¼ sec. cor. which is a post marked and witnessed as described by the surveyor general; the post being down I reset it firmly in the ground. - At 78.40 chs. I intersect the cor. of secs. 21-22-27 and 28 as heretofore described The course of this line is therefor east. -

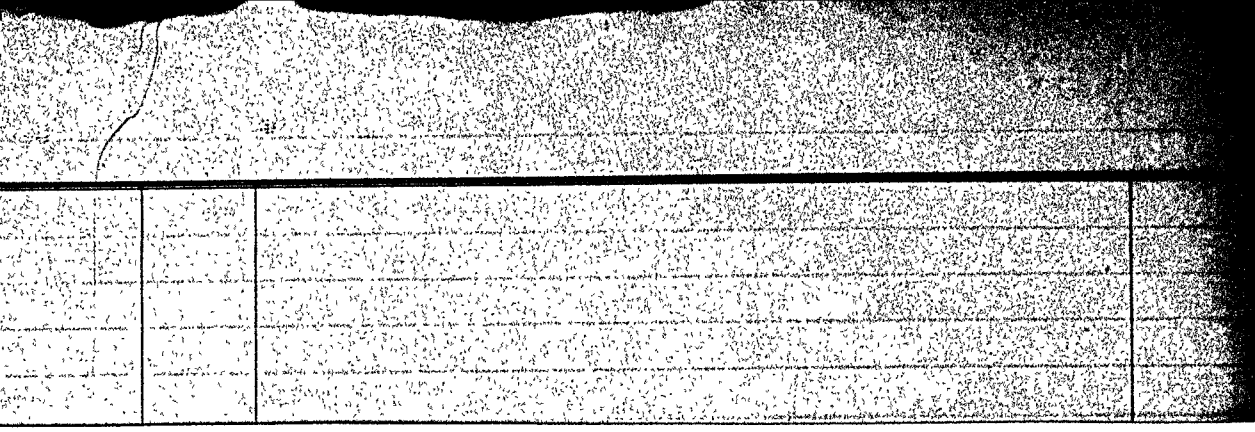
June 26, 1902

General Description

For general descriptions see field notes of subdivision of this Tp. Book "K"

Andrew P Swanson

U.S. Deputy Surveyor

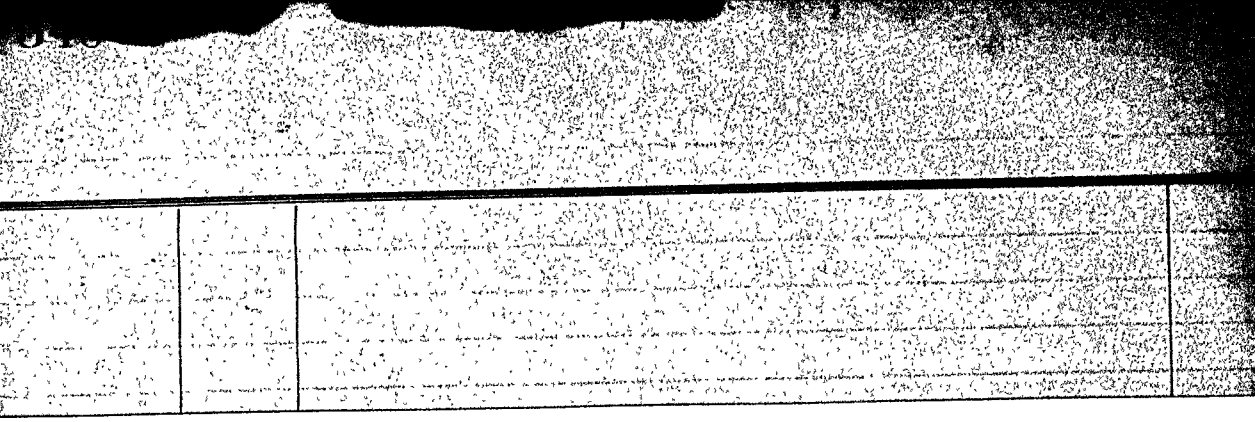


BLANK

PAGE

BLANK

PAGE



BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *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, Sept. 17, 1903

The foregoing field notes of the survey of The Subdivisional Lines of Township 2 South, Range 2 East of the Salt Lake Base & Meridian, Utah

executed by Andrew P. Hansen under his contract No. 2464, dated April 12, 1901, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

_____

United States Surveyor General.

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

_____

United States Surveyor General.

4-m

BLANK

PAGE

BLANK

PAGE

4—679.

A

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.12 South, Range No.12 East

Of the Salt Lake Base and *Meridian,*

in the STATE OF UTAH

AS SURVEYED BY

John R. Stewart, *United States Deputy Surveyor,*

Under his Contract No. 250, *dated* January 2, 1902. ,x~~189~~x

Survey commenced June 16, 1902. ,x~~189~~xx

Survey completed June 20, 1902. ,x~~189~~x

6—151

high 13.01.74
low 11.50
Closing 10.40

13-13.24

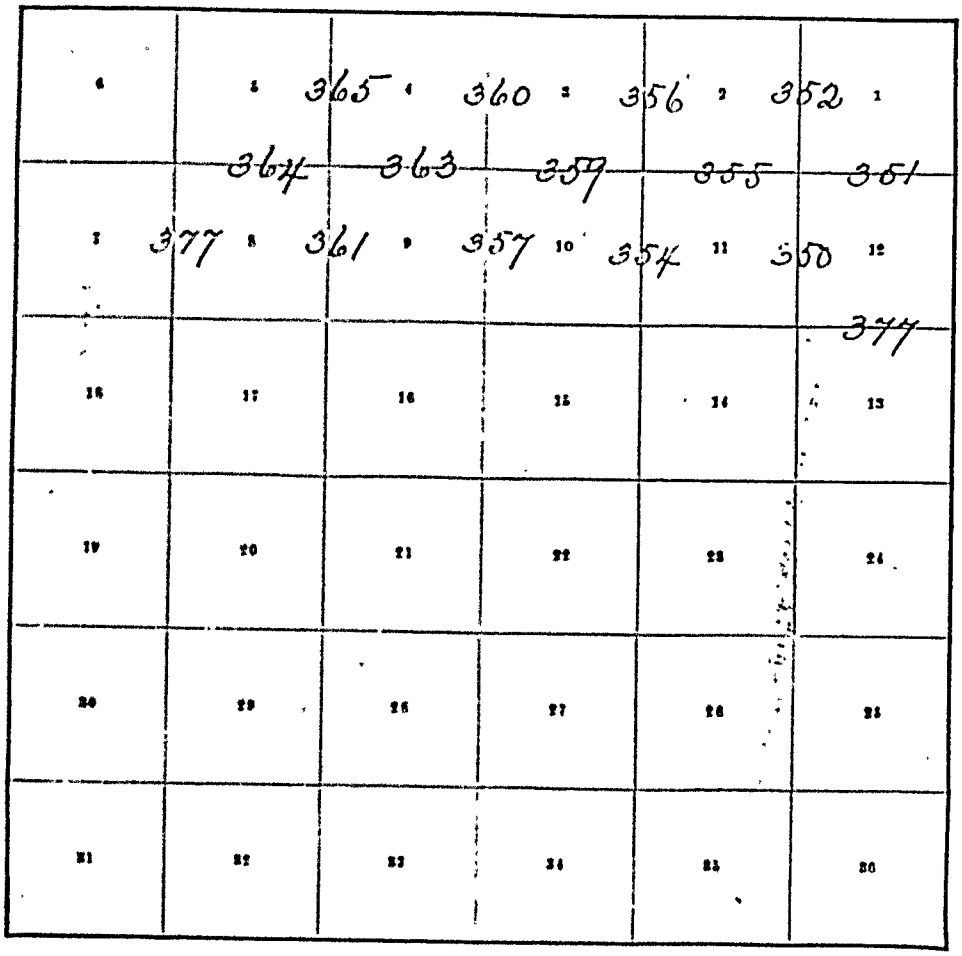
NAMES AND DUTIES OF ASSISTANTS.

Hyrum G.Smith	Chainman
John G.Smith	Chainman
Jacob A.Acord	Moundman
Edwin A.Peay	Moundman
Joseph A.Passey	Axman
Andy J.Stewart	Axman
Otto R.Stewart	Flagman

BOOK A-293

INDEX DIAGRAM.

Township 12 S, *Range* 12 E



*Meanders Page*_____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hyrum G. Smith and John G. Smith 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 fractional subdivisions of T. 12 S. R. 12 E.; the subdivisions of T. 13 S. R. 12 E.; T. 14 S. R. 15 E.; T. 13 S. R. 14 E.; T. 12 S. R. 14 E. (fractional) and T. 11 S. R. 15 E. of Salt Lake Base and Meridian Utah

Hyrum G. Smith, Chainman.

John G. Smith, Chainman.

Subscribed and sworn to before me this 16th day of June 1902, ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

WE, Jacob A. Acord and Edwin C. Peay 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. 12 S. R. 12 E. (fractional); T. 13 S. R. 12 E.; T. 14 S. R. 15 E.; T. 13 S. R. 14 E.; T. 12 S. R. 14 E. (fractional); and T. 11 S. R. 15 E. of Salt Lake Base and Meridian Utah

Jacob A. Acord, Moundman.

Edwin C. Peay, Moundman.

Subscribed and sworn to before me this 16 day of June 1902, ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

WE, Joseph A. Passey and Andy J. Stewart do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of The subdivisions of T. 12 S. R. 12 E. (fractional); T. 13 S. R. 12 E.; T. 14 S. R. 15 E.; T. 13 S. R. 14 E.; T. 12 S. R. 14 E. (fractional); and T. 11 S. R. 15 E. of Salt Lake Base and Meridian Utah

Joseph A. Passey, Axman.

Andy J. Stewart, Axman.

Subscribed and sworn to before me this 16 day of June 1902, ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

I, Otto R. Stewart, 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. 12 S. R. 12 E. (fractional); T. 13 S. R. 12 E.; T. 14 S. R. 15 E.; T. 13 S. R. 14 E.; T. 12 S. R. 14 E. (fractional); and T. 11 S. R. 15 E. of Salt Lake Base and Meridian Utah

Otto R. Stewart, Flagman.

Subscribed and sworn to before me this 16th day of June 1902, ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

6—151

Subdivision of T.12 S.,R.12 E.

Chains	
	Survey commenced June 16,1902,and executed with a W. and L.E.Gurley light mountain transit,No.1,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,on June 14,1902. I examine the adjustments of the instrument,and correct the level and collimation errors,then,to test the solar apparatus by comparing its indications resulting from solar observations made during p.m.and a.m.hours with a true meridian,established by observation on Polaris,I proceed as follows: At the cor.of secs.11,12,13,and 14,T.12 S.,R.12 E., latitude 39° 47'N.,longitude 110° 34'W.,I set off 39° 47'N.,on the lat.arc;23° 21'N.,on the decl.arc;and at 3 h 2 m p.m.,l.m.t.,determine a true meridian,with the solar,and mark a point thereof on a stone ,firmly set in the ground,5.00 chs.Nof the cor. June 16,1902.
	June 17,1902:At 1h 44.7 m a.m.,l.m.t., I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point in the line thus determined, by a tack driven in a wooden plug,set in the ground, east of the stone,already set 5.00 chs.N.of the cor. At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 35.' to the west,and mark a point in the true meridian,thus determined by cutting a small groove in the stone,already set,5.00 chs.N.of the cor.;on which the true meridian falls 0.23 ins.east of the true meridian,determined with the solar. At 7 h 2 m a.m.,l.m.t.,I set off 39° 47 'N.,on the lat.arc;23° 23'N.,on the decl.arc;and mark a point in

Chains

the true meridian determined with the solar,by a cross on the stone already set,5.00 chs.N.of the cor.;this mark falls 0.34 ins.east of the true meridian,established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for true meridians,respectively about 0'12"west and 0'18"east of the true 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 0 m a.m.,l.m.t.,is 16° 20.7'W.,the angle thus determined reduced by the table page 100 of the Manual,gives the mean mag.decl.16°15'E.

From the cor.of secs.11,12,13,and 14,which is a sandstone, 8x9x5 ins.above ground,firmly set and marked and witnessed as described by the surveyor general.

I run

N.0°01'W.,bet.secs.11 and 12.

Over mountainous land;through dense undergrowth;descend .

From the above described cor. H Hamilton's house bears N.84°E.about30.00 chs.dist.

3.00 Foot of descent,100 ft.below sec.cor.,bears N.80°W. and S.80°E. Enter bottom of Nine Mile Canon.

3.50 Nine Mile Creek,6 lks.wide,2 ins.deep,gravelly bottom, course E.

8.00 Road in canon,bears N.80°W.and S.80°E.

35.00 Pole fence,at foot of ascent,bears N.30°E.and S.30°W.

Leave canon bottom;ascend .

37.00 Enter scattering timber,bears E.and W.

40.00 Set a sandstone,18x7x6 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.

75.00 Top of ridge,800 ft.above canon bottom,bears N.20°E.

Subdivision of T.12 S.,R.12 E.-Continued.

Chains 5 20° W.;descend .

80.00 Set a sandstone,24x14x4 ins.,18 ins.in the ground,for cor.of secs:1,2,11,and 12,marked with 5 notches on S.and 1 notch on E.edges;from which

A pinion pine,14 ins.diam.,bears S.26° E.,165 lks.dist.,marked T.12 S.,R.12 E.,S.12,B.T.

A pinion pine,12 ins.diam.,bears N.35° W.,62 lks.dist.,marked T.12 S.,R.12 E.,S.2,B.T.

No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable.

Land,mountainous and levelcanon bottom.

Soil,sandy and clay loam and gravelly;2nd and 3rd rate.

Timber,scattering cedar and pinion pine.

Undergrowth,sage and deer brush and service berry.

Good grass for grazing.

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

East ,on a random line bet.secs.1 and 12.

40.00 Set temp.¼ sec.cor.

80.70 Intersect E.bdy.of Tp.,3.25 chs.South of the cor.of secs.1,6,7,and 12,which is a sandstone, 6x15x10 ins. above ground,firmly set,and marked and witnessed as described by the surveyor general.

The falling exceeds the limits therefore at my intersection I

Set a sandstone,16x8x4 ins.,11 ins.in the ground,for closing cor.of secs.1 and 12,marked C.C.on W.,with 1 groove on N.and 5 grooves on S.faces;from which

A cedar,10 ins.diam.,bears S.60° W.,90 lks. dist.,marked T.12 S.,R.12 E.,S.12,B.T.

A pinion pine,12 ins.diam.,bears N.65° W.,98 lks.dist.,marked T.12 S.,R.12 E.,S.1,B.T.

Thence I run

West,on a true line bet.secs.1 and 12.

Chains	
	Over mountainous land;through scattering timber and scattering undergrowth;ascend.
15.75	Top of ridge,300 ft.above closing cor.,bears N.20° E. and S.20° W.;descend .
31.80	Bottom of canon,400 ft.below ridge,course S.W.;as - cend.
40.70	Set a sandstone,18x12x4 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which A pinion pine,24 ins.diam.,bears N.4° W.,10 lks.dist.,marked ¼ S.1;B.T. A pinion pine,14 ins.diam.,bears S.40° E.,35 lks.dist.,marked ¼ S.12,B.T.
44.00	Top of ridge,300 ft.above canon,bears N.and S.;des- cend .
62.50	Bottom of canon,700 ft.below ridge,course S.;as - cend .
77.50	Top of ridge,800 ft.above canon,bears N.20° E.and S. 20° W.;descend .
80.70	The cor.of secs.1,2,11,and 12.
	Land,mountainous.
	Soil,sandy and gravelly;3rd rate.
	Timber,cedar and pinion pine.
	Undergrowth,scattering sage,oak and mahogany brush.
	Good grass for grazing.
	Mountainous land,80.70 chs.
	Note:I destroy all marks on the cor.of secs.1,6,7,and 12,which pertain to secs.1 and 12.

	On account of the closing on the E.bdy.of Tp.I am led to believe that the line bet.secs.1 and 2.will not close on the N.bdy.of Tp.,within limits;therefore I run
	N.0° 01'W.,on a true line bet.secs.1 and 2.
	Over mountainous land;through scattering timber and dense undergrowth;descend .
26.50	Bottom of hollow,200 ft.below sec.cor.,course S.W.;as- cend .
33.00	Top of ridge,100 ft.above hollow,bears N.20° E.and S.

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	
	20° W.;descend.
40.00	Set a sandstone,16x6x4 ins.,11 ins.in the ground,for ¼ sec.cor.,,marked ¼ on W.face;from which A pinion pine,16 ins.diam.,bears S.40° E.,145 lks.dist.,marked ¼ S.1,B.T. A pinion pine,8 ins.diam.,bears S.52° W.,85 lks.dist.,marked ¼ S.2,B.T.
45.00	Bottom of swale,50 ft.below ridge,course S.20° W.;ascend .
55.00	Top of ridge,100 ft.above hollow,bears E.and W.;descend .
76.00	Bottom of canon,200 ft.below ridge,course S.E.;ascend .
83.30	Intersect N.bdy.of Tp.,65 lks.N.89°54'W.of cor.of secs.1,2,35,and 36,which is a sandstone,6x12x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general. Set a sandstone,20x14x6 ins.,15 ins.in the ground,for closing cor.of secs.1 and 2,marked C.C.on S.,with 1 groove on E.and 5 grooves on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.Pits impracticable. Land,mountainous. Soil,sandy and gravelly and rocky;3rd and 4th rate. Timber,scattering cedar and pinion pine. Undergrowth,oak,mahogany,service berry and sage brush. Good grass for grazing. Mountainous land,or land covered with dense undergrowth,83.30 chs. Note:I destroy all marks on the cor.of secs.1,2,35, and 36,which pertain to secs.1 and 2. June 17,1902:At this cor.I set off 23° 23' N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 49' N.

Chains	
	From the cor.of secs.10,11,14,and 15,which is a cobble-stone, 4 x 8 x 8 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general. Thence I run N.0°01'W.,bet.secs.10 and 11.
	Over mountainous land;through dense aspen sapplings; descend.
3.00	Leave aspen sapplings and enter dense sage brush,bears E.and W.
20.50	Leave sage brush and enter dense aspen sapplings,bears E.and W.
31.00	Leave aspen and enter dense sage brush,bears N.E.and S.W.
31.20	Bottom of canon,300 ft.below sec.cor.,course N.E.;ascend .
40.00	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
43.50	Top of ridge,150 ft.above canon,bears N.E.and S.W.; descend .
58.00	Leave undergrowth and enter heavy timber,bears E.and W.
59.50	Leave timber and enter dense sage brush and greasewood, bears E.and W.
61.00	Foot of descent,200 ft.below ridge,bears E.and W.; enter bottom of Nine Mile Canon .
63.50	Nine Mile Creek,9 lks.wide,9 ins.deep;sandy bottom, course E.
65.00	Enter cultivated land,bears E.and W.Leave sage brush.
70.50	Canal,10 lks.wide,2 ft.deep,course E.
76.50	Al Thompson's house,on line,,one room,12x12 ft. Leave cultivated land and enter dense sage brush, bears E.and W.
78.75	Road,bears E.and W.
80.00	Set a sandstone,30x9x4 ins.,22 ins.in the ground,for

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	cor.of secs.2,3,10,and 11,marked with 5 notches on S.and 2 notches on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous and level canon bottom.
	Soil,sandy and clay loam;2nd rate.
	Timber,aspen.
	Undergrowth,aspen saplings and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,68.50 chs.
	June 17,1902.

June 18,1902:At 7 h 2 m a.m.,l.m.t.,I set off 39° 48' N.,on the lat.arc;23° 25'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of secs.2,3,10,and 11.

Thence I run

N.89° 5/'E.,on a random line bet.secs.2 and 11.

40.00 Set temp.¼ sec.cor.

80.30 Intersect N.and S.line,2/10s.N.of the cor.of secs. 1,2,11,and 12.

Thence I run

West,on a true line bet.secs.2 and 11.

Over mountainous land;through dense undergrowth and scattering timber;descend .

13.00 Bottom of canon,300 ft.below sec.cor.,course S.30°W.; ascend .

25.00 Top of ridge,400 ft.above canon,bears N.and S.;descend .

40.15 Set a sandstone,20x10x4 ins.,15 ins.,in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.

43.50 Bottom of hollow,300 ft.below ridge,course S.;ascend .

Chains	
57.50	Top of ridge,500 ft.above hollow,bears N.and S.;descend .
75.00	Foot of descent,600 ft.below ridge,bears N.and S.80° E.;enter bottom of Nine Mile Canon .
	Leave timber,bears N.and S.80°E.
76.85	Trail in canon,bears N.and S.
80.30	The cor.of secs.2,3,10,and 11.
	Land,mountainous and level.
	Soil,clay and gravelly on mountain;3rd rate,and sandy loam in canon bottom;2nd rate.
	Timber,cedar and pinion pine.
	Undergrowth,oak,sage and mahogany brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth;80.30 chs.
	For reasons already explained I run
	N.0°01'W.;on a true line bet.secs.2 and 3.
	Over level bottom of Nine Mile Canon in mouth of canon which heads about 1 mile N.10°E. Through dense sage and rabbit brush.
13.50	Trail,bears N.40°W.and S.40°E.
40.00	Set a sandstone,20x10x5 ins..,15 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face; and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
44.50	Leave canon bottom,,bears N.W.and S.E.;Leave undergrowth and enter scattering timber ; Ascend .
52.31	Ledge,50 ft.high,bears N.W.and S.E.
54.47	Top of ridge,400 ft.above canon bottom,bears N.W.and S.E.;descend .
55.00	Enter pine and balsom timber,bears N.W.and S.E.
61.00	Bottom of hollow,300 ft.below ridge,course N.W.;ascend .
75.00	Top of ridge,400 ft.above hollow,bears E.and W.;des-

Chains	
	cend .
83.26	Intersect N.bdy.of TP.,90 lks.N.89°54'W.of cor.of secs. 2,3,34,and 35,which is a sandstone,,5 x10x7 ins., above ground,firmly set,and marked and witnessed as described by the surveyor general.
	Set a sandstone,20x9x5 ins.,15 ins.in the ground,for closing cor.of secs.2 and 3,marked with 2 grooves on E.and 4 grooves on W.faces;from which
	A red pine,9 ins.diam.,bears S.53°E.,53 lks.dist.,marked T.12 S.,R.12 E.,S.2,B.T.
	A red pine,12 ins.diam.,bears S.63°W.,40 lks.dist.,marked T.12 S.,R.12 E.,S.3,B.T.
	Land,mountainous and level canon bottom.
	Soil,sandy loam in bottom and clay and gravelly on mountains;2nd and 3rd rate.
	Timber,cedar,pinion pine,red pine and balsom.
	Undergrowth,sage and rabbit brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,83.26 chs.
	Note:I destroy all marks on the cor.of secs.2,3,34, and 35,which pertain to secs.2 and 3.
	June 18,1902:At this cor.I set off 23°24'N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 49'N.
	From the cor.of secs.9,10,15,and 16;which is a stone, 6x10x10ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°02'W.,bet.secs.9 and 10.
	Over mountainous land;through dense sage brush;descend .
2.25	Leave undergrowth and enter heavy timber,bears E.and W.

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	
3.50	Leave timber and enter dense undergrowth, bears E. and W.
12.50	Bottom of hollow,, 150 ft. below sec. cor., course N.25° E.; ascend
22.50	Top of ridge, 100 ft. above hollow, bears N.30° E. and S. 30° W.; descend
30.00	Enter scattering timber, bears E. and W.
40.00	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which An aspen, 4 ins. diam., bears N.28° E., 34 lks. dist., marked $\frac{1}{4}$ S.10, B.T. An aspen, 4 ins. diam., bears N.6° W., 43 lks. dist., marked $\frac{1}{4}$ S.9, B.T.
44.50	Leave timber, bears N.30° E. and S.30° W.
50.00	Enter heavy timber, bears N.E. and S.W.
51.00	Bottom of hollow, 250 ft. below ridge, course N.20° E.; ascend
52.50	A small spring bears West 25 lks. dist.
53.50	Leave timber, bears N.30° E. and S.30° W.
57.00	Top of ridge, 150 ft. above hollow, bears N.60° E. and S.60° W.; descend
69.00	Bottom of hollow, 60 ft. below ridge, course N.E.; ascend
77.50	Top of rocky ridge, 50 ft. above hollow, bears E. and W.; descend
80.00	Set a limstone, 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, marked with 5 notches on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, sandy and gravelly loam; 2nd rate. Timber, aspen. Undergrowth, oak and sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	
	with dense undergrowth,80.00 chs.
	June 18,1902.
	June 19,1902;At 7 h 3 m a.m.,l.m.t.,I set off 39° 48' N.,on the lat.arc;23° 27' N.,on the decl.arc;and determine a true meridian,with the solar ,at the cor. of secs.3,4,9,and 10.
	Thence I run
-	N.89° 55'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.24	Intersect N.and S.line,24 lks.N.of the cor.of secs. 2,3,10,and 11.
	Thence I run
	N.89° 55'W.,on a true line bet.secs.3 and 10.
	Over level canon bottom (Nine Mile Canon),through dense sage and rabbit brush.
2.00	Road in canon,bears N.85°W.and S.60°E.
9.00	Wash,10 lks.wide,4 ft.deep,course S.30°W.
10.50	Canal,10 lks.wide,3 ft.deep,course S.
15.00	Nine Mile Creek,9 lks.wide,sandy bottom,course S.E.
15.50	Leave canon bottom,bears N.W.and S.E.;ascend .
26.00	Top of ridge,100 ft.above canon bottom,bears N.and S.;descend .
35.00	Bottom of hollow,50 ft.below ridge,course N.;ascend.
40.12	Set a sandstone,24x10x6 ins.,18 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone,2 ft.base,1$\frac{1}{2}$ ft.high,N.of cor.Pits impracticable.
45.00	Top of ridge,100 ft.above hollow,bears N.and S.;descend .
59.50	Wood road,bears N.E.and S.W.
60.25	Bottom of canon,200 ft.below ridge,course N.E.;ascend .
62.50	Top of spur,200 ft.above canon,bears N.and S.;descend .

Chains	
63.50	Bottom of gulch,50 ft.below spur,course N.;ascend .
80.24	The cor.of secs.3,4,9,and 10.
	Land,mountainous .
	Soil,sandy and gravelly loam and rocky;2nd and 4th rate.
	No timber.
	Undergrowth,oak,sage and rabbit brush..
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.24 chs.

For reasons already explained I run N.0° 02'W.,on a true line bet.secs.3 and 4.
Over mountainous land;through dense undergrowth;descend .

10.00	Bottom of hollow,50 ft.below sec.cor.,course E.;ascend .
16.00	Top of spur,25 ft.above hollow,bears N.60° E.and S. 60° W.;descend .
24.75	Foot of descent,150 ft.below spur,bears E.and W.
	Enter bottom of Nine Mile Canon .
25.85	Nine Mile Creek,3 lks. wide,2 ins.deep,sandy bottom, course E.:
29.25	Road in canon,bears N.70° W.and S.70° E.
35.00	Leave canon bottom,bears N.70° W.and E.;ascend .
35.50	Leave undergrowth and enter scattering timber,bears E.and W.
40.00	Set a sandstone,24x12x4 ins.,18 ins.in the ground;for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A cedar,4 ins.diam.,bears N.45° E.,17 lks. dist.,marked $\frac{1}{4}$ S.3,B.T.
	A cedar,5 ins.diam.,bears S.20° W.,56 lks. dist.,marked $\frac{1}{4}$ S.4,B.T.
43.37	Foot of perpendicular ledge,30 ft.high,bears E.and W.

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	
	Thence over a series of ledges,from 10 ft.to 100 ft. high .
54.00	Top of ridge,600 ft.above canon,bears N.25°W.and S. 45°E.;descend .
83.07	Intersect N.bdy.of Tp.,108 lks.N.89°54'W.of cor.of secs.3,4,33,and 34,which is a sandstone, 7x11x7 ins. above ground,firmly set,and marked and witnessed as described by the surveyor general.
	Set a sandstone,18x12x11 ins.,12 ins.in the ground, for closing cor.of secs.3,and 4,marked with 3 grooves on E.and 3 grooves on W.faces;from which
	An aspen,4 ins.diam.,bears S.31°E.,35 lks. dist.,marked T.12 S.,R.12 E.,S.3,B.T.
	An aspen,4 ins.diam.,bears S.57°W.,44 lks. dist.,marked T.12 S.,R.12 E.,S.4,B.T.
	Land,mountainous and level canon bottom.
	Soil,sandy and loam in bottom of canon;2nd rate;and gravelly and rocky on mountains;3rd and 4th rate.
	Timber,cedar,pinion pine and aspen.
	Good grass for grazing.
	Mountainous land,or land covered with dense under-growth, 83.07 chs.
	June 19,1902:At the noon hour the sky is overcast and solar observations are impossible.
	Note:I destroy all marks on the cor.of secs.3,4,33,and 34,which pertain to secs.3 and 4.
	From the cor.of secs.8,9,16,and 17,,which is a sand stone, 8x10x7 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°03'W.,bet.secs.8 and 9.
	Over mountainous land;through dense aspen sapplings; descend .
.60	Enter scattering timber,bears E.and W.
2.00	Bottom of hollow,100 ft.below sec.cor.;course E.;as-cend .

Subdivision of T.12 S.,R.12 E.-Continued.

Chains	
2.10	Leave aspen saplings and timber,and enter dense sage brush,bears E.and W.
7.50	Top of ridge,100 ft.above hollow,bears E.and W.;descend .
18.00	Enter heavy timber,bears E.and W.
35.00	Bottom of canon,300 ft.below ridge,course N.E.;ascend .
40.00	Set a sandstone,16x10x4 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which An aspen,6 ins.diam.,bears E.,55 lks.dist., marked $\frac{1}{4}$ S.9,B.T. An aspen,5 ins.diam.,bears N.80°W.,10 lks. dist.,marked ;$\frac{1}{4}$ S.8,B.T.
42.00	Leave timber,bears E.and W.
51.00	Enter timber and leave undergrowth,bears E.and W.
67.50	Top of ridge,150 ft.above hollow,bears E.and W.;descend .
76.00	Bottom of hollow,200 ft.below ridge,course N.E.: Leave timber and enter dense undergrowth,bears N.E. and S.W. Ascend .
78.50	Top of ridge,150 ft.above hollow,bears N.E.and S.W.; descend .
80.00	Set a limestone,28x14x5 ins.,21 ins.in the ground,for cor.of secs.4,5,8,and 9,marked with 5 notches on S. and 4 notches on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable. Land,mountainous. Soil,sandy and gravelly;3rd rate. Timber,aspen. Undergrowth,sage brush and service berry. Good grass for grazing. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Chains	
	East, on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.30	Intersect N.and S.line,10 lks.N.,of the cor.of secs. 3,4,9,and 10.
	Thence I run
	N.89°56'W., on a true line bet.secs.4 and 9.
	Over mountainous land,through dense sage brush;ascend .
6.50	Top of ridge,40 ft.above sec.cor.,bears N.and S.; descend .
14.10	Bottom of hollow,100 ft.below ridge,course N.15°E.; ascend .
20.50	Top of ridge,100 ft.above hollow,bears N.30°E.and S.30°W.;descend .
29.50	Enter scattering timber,bears N.E.and S.W.
31.50	A small boggy spring on line.
34.50	Bottom of hollow,250 ft.below ridge,course N.E. Creek,1 lk.wide,2 ins.deep in bottom .Ascend .
40.15	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.
46.00	Top of ridge,200 ft.above hollow,bears N.E.and S.W.; descend .
62.00	Bottom of hollow,200 ft.below ridge,course N.E.;ascend .
78.50	Top of ridge,150 ft.above hollow,bears N.E.and S.W.; descend .
80.30	The cor.of secs.4,5,8,and 9.
	Land,mountainous.
	Soil,sandy and gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,,oak,sage and service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense under-

Chains growth,80.30 chs.

June 19,1902.

June 20,1902:At 7 h 2 m a.m.,l.m.t.,I set off 39° 48' N.,on the lat.arc;22° 28'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor. of secs.4,5,8,and 9.

Thence I run

S.89° 52'W. ,on a random line bet.secs.5 and 8.

40.00 Set temp.¼ sec.cor.

78.85 Intersect N.and S.line,3.40 chs.South of the cor.of secs.5,6,7,and 8,which is a sandstone,6x15x10 ins., above ground,firmly set,and marked and witnessed as described by the surveyor general.

The falling is out of limits;therefore I.

Set a sandstone,18x8x5 ins.,12 ins.in the ground,for closing cor.of secs.5 and 8,marked C.C.on E.,with 5 grooves on S.and 5 grooves of E.faces;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.Pits impracticable.

Note:I destroy all marks on the cor.of secs.5,6,7,and 8,which pertain to secs.5 and 8.

Thence I run

N.89° 52'E, on a true line bet.secs.5 and 8.

Over mountainous land;through dense undergrowth;descend .

20.00 Bottom of hollow,250 ft.below sec.cor.,course S.E.; ascend .

29.50 Top of ridge,50 ft.above hollow,bears N.W.and S.E.; descend .

37.50 Creek,1 lk.wide,2 ins.deep,in canon,100 ft.below ridge,course N.40°E.;

Enter scattering aspen,timber bears with canon .ascend.

38.85 Set a sandstone,18x11x4 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which

Chains	
	An aspen,5 ins.diam.,bears N.60° E.,25 lks. dist.,marked ¼ S.5,B.T.
	An aspen,5 ins.diam.,bears S.50° W.,35 lks. dist.,marked ¼ S.8,B.T.
65.00	Top of ridge,250 ft.above canon,bears N.and S.
	Leave timber,bears N.and S. Descend .
72.00	Bottom of hollow,100 ft.below ridge,course N.;as - cend .
78.85	The cor.of secs.4,5,8,and 9.
	Land,mountainous.
	Soil,sandy and gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage and service berry brush.
	Good grass for grazing.
	Mountainous land;or land covered with dense under- growth,78.85 chs.
	For reasons already explained
	1 run
	N.0° 03'W.,on a true line bet.secs.4 and 5.
	Over mountainous land;through dense undergrowth;des- cend .
8.00	Bottom of hollow,100 ft.below sec.cor.,course N.E.; ascend .
18.00	Top of ridge,100 ft.above hollow,bears N.E.and S.W.; descend .
27.00	Bottom of hollow,,200 ft.below ridge,course N.E.;as- cend .
30.00	Top of ridge,60 ft.above hollow,bears N.E.and S.W.; descend .
40.00	Set a sandstone,18x14x6 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 impractic- able.
41.75	Enter scattering pine and cotton wood timber,bears E.and W.

Chains	
42.50	Foot of descent,200 ft.below ridge,bears E.and W.; enter bottom of Nine Mile Canon.
43.90	Nine Mile Creek,10 lks.wide,4 ins.deep,gravelly bottom,course E.
44.50	Leave timber,bears E.and W.
45.75	Wagon road in canon,bears E.and W.
47.00	Leave canon bottom,bears E.and W.;ascend abruptly.
58.18	Foot of perpendiculy ledge,40 ft.high,bears E.and W.
59.76	Foot of perpendicular ledge,150 ft.high,bears E.and W.
72.00	Top of ridge,1000 ft.above canon bottom,bears N.E. and S.W.;descend through scattering cedar and pinion pine timber.
83.22	Intersect N.bdy.of Tp.,1.12 chs.N.89°54'W.of cor.of secs.5,4,32,and 33,which is a sand stone,6x9x5 ins. above ground,firmly set,and marked and witnessed as described by the surveyor general.
	Set a sandstone,18x8x5 ins.,12 ins,in the ground,for closing cor.of secs.4 and 5,marked with 4 grooves on E.and 2 grooves on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.Pits impracticable.
	Note:I destroy all marks on the cor.of secs.4,5,32, and 33,which pertain to secs.4 and 5.
	Land,mountainous and level canon bottom.
	Soil,sandy and gravelly;3rd rate.
	Timber,pine,cottonwood,cedar and pinion pine.
	Undergrowth,sage and service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,83.22 chs.
	June 20,1902:At the noon hour the sky is overcast and solar observations are impossible.
	June 20,1902.

GENERAL DESCRIPTION.

The part of this fractional township which lies south of Nine Mile Canon is rolling ,the soil being generally sandy and gravelly and loam;2nd and 3rd rate.

The part lying north of Nine Mile Canon is high, steep and percipitious;the soil being mostly 3rd and 4th rate.

The soil in the bottom of Nine Mile Canon is sandy and clay loam;2nd rate.

There is some aspen timber south of Nine Mile Canon, and cedar and pine timber north of the canon.

There is an abundant growth of good grass all over the township .

The township is well watered by Nine Mile Creek and numerous springs.

Al Thompson has a house and some cultivated land in secs.10 and 11,worth about $100.00.

Mrs.Grames (Wioow of F. Grames) has a house,barn,and corrals and about 30 acres of cultivated land in sec.11,worth about $800.00.,not seen from line.

H.Hamilton has a house and cultivated land is sec. 12,worth about $400.00.

There is no mineral in the township.

Martha Hall, applicant for survey, could not be found in this township, nor her improvements.

John R. Stewart.
U.S.Deputy Surveyor.

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

.....*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 ....., 180

.....

.....

SEAL

8—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

[illegible] United States Deputy Surveyor, do solemnly swear that in pursuance of a contract received from [illegible] United States Surveyor General for [illegible] bearing date of the [illegible] day of [illegible] 18[illegible], I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for [illegible], the Manual of Surveying Instructions, and the laws of the United States surveyed all those parts or portions of [illegible]

[illegible] of the [illegible] which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for [illegible] and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; 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 [illegible], and sworn to before me [illegible] day of [illegible], 18[illegible]

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Jany 18, 1904.

The foregoing field notes of the survey of The Subdivisional Lines of Township 12 South Range 12 East of the Salt Lake Base and Meridian, Utah

[illegible] John R. [illegible]

[illegible] contract No. 200, dated [illegible] January 22, 1902, 18[illegible], having been [illegible] and the necessary corrections and explanations made, the said field notes, and the [illegible] are hereby approved.

[illegible]

United States Surveyor General.

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

United States Surveyor General.

BLANK

PAGE

BLANK

PAGE

4—679.

B

BOOK A-293

FIELD NOTES

retracement
OF THE ~~SURVEY~~ OF THE

Lines between sections 7 and 8 and the W.halves of secs.

12 and 13,

Township No.12 South, Range No.12 East,

Of the SALT LAKE BASE AND *Meridian,*

in the STATE OF UTAH

AS SURVEYED BY

John R.Stewart, *United States Deputy Surveyor,*

Under his Contract No. 250, *dated* January 2,1902. ~~x139.c~~

Retracement ~~Survey~~ *commenced* June 20,1902. ~~x189.~~

Retracement ~~Survey~~ *completed* June 20,1902. ~~x139.xx~~

6—131

Lno 1-43-89

BOOK A-293

NAMES AND DUTIES OF ASSISTANTS.

Hyrum G.Smith	Chainman
John G.Smith	Chainman
Jacab A.Acord	Moundman
Edwin A.Peay	Moundman
Joseph A.Pasey	Axman
Andy J.Stewart	Axman
Otto R.Stewart	Flagman

6—151

Volume
#
R0293

BOOK A-293

INDEX DIAGRAM.

Township 12S, *Range* 12E

6	5	4	3	2	1
7 377	8	9	10	11	12
18	17	16	15	14	13 377
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, Hyrum G. Smith and John G. Smith 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~~ retracement of The lines bet. secs. 7 and 8; and the W. halves of secs. 12 and 13, T. 12 S. R. 12 E. of the Salt Lake Base and Meridian.

Hyrum G. Smith, Chainman.

John G. Smith, Chainman.

Subscribed and sworn to before me this 16th day of June 1902., ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor.

WE, Jacob H. Acord and Edwin H. Peay do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the ~~survey~~ retracement of The lines bet. secs. 7 and 8; and the W. halves of secs. 12 and 13, T. 12 S. R. 12 E. of the Salt Lake Base and Meridian.

Jos. A. Acord, Moundman.

Edwin A. Peay, Moundman.

Subscribed and sworn to before me this 16th day of June 1902., ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

WE, Joseph H. Passey and Andy J. Stewart do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the ~~survey~~ retracement of the lines bet. secs. 7 and 8; and the W. halves of secs. 12 and 13, T. 12 S. R. 12 E. of the Salt Lake Base and Meridian.

Joseph A. Passey, Axman.

Andy J. Stewart, Axman.

Subscribed and sworn to before me this 16" day of June 1902., ~~189~~

SEAL

John R. Stewart
U. S. Deputy Surveyor

I, Otto R. Stewart, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey~~ retracement of the lines bet. secs. 7 and 8 and the W. halves of secs. 12 and 13, T. 12 S. R. 12 E. of Salt Lake Base and Meridian.

Otto R Stewart, Flagman.

Subscribed and sworn to before me this 16" day of June 1902., 189

SEAL

John R. Stewart
U. S. Deputy Surveyor

6—151

Retracement of Subdivision of T.12 S.,R.12 E.

Chains	
	Note:On account of the closings made on the east Bdy. of Tp.and at the cor.of secs.5,6,7,and 8,it is evident that errors exist either in my own work or in the old survey adjacent thereto;therefore I retrace enough of my own lines to verify the correctness of my work and then proceed to retrace the line bet.secs.7 and 8.
	Note:For complete test of instrument see subdivision of T.12 S.,R.12 E. Book A.
	June 20,1902:At 2 h 2 m p.m.,l.m.t.,I set off 39° 48' N., on the lat.arc;23° 27' N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of secs. 6 and 7,T.12 S.,R.12 E.
	Thence I run
	South ,on a retracement line bet.secs.7 and 8.
3.40	The closing cor.of secs.5 and 8.
40.05	The ¼ sec.cor.,bet.secs.7 and 8,which is a sandstone, 8 x3 x6 ins.,above ground,firmly set and marked and witnessed as described by the surveyor general.
83.39	The cor.of secs.7,8,17,and 18,which is a sandstone, 6 x8 x 3 ins.,above ground,firmly set ,and marked and witnessed as described by the surveyor general,, bears West 113. lks.dist.
	The course of this line is therefore N.1° 30' E.to ¼ sec.cor.,bet.secs.7 and 8.from cor.of secs.7,8,17,and 18, and the distance is 43.35 chs.
	From the cor.of secs.11,12,13,and 14,heretofore described,
	I run
	N.89° 51° E., on a retracement line bet.secs.12 and 13.
40.50	The ¼ sec.cor.bet.secs.12 and 13 ,which is a sandstone, 6 x1x7 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general, bears N.3.20 chains dist.
	The course of this line is therefore N.85° 20' E. 40.63 chs
	Note:This locates the errors descovered in running the

Chains | line bet.secs.1 and 12;therefore it is not necessary to retrace further.

Latitudes,departures and closing errors.

Line designated	true bearing	distance chs.	latitudes N. chs.	latitudes S. chs.	departures E. chs.	departures W. chs.
N.bdy.T.12 S.,R.12 E.	S.89°54'E.	400.00		.70	400.00	
E.bdy.T.12 S.,R.12 E.	South	160.00		160.00		
S.bdy.sec.12,T.12 S.,R.12 E.	S.89°51'W.	40.10		.10		40.10
S.bdy.sec.12,T.12 S.,R.12 E.	S.85°20'W.	40.63		3.20		40.50
S.bdy.sec.11,T.12 S.,R.12 E.	S.89°57'W.	80.45		.07		80.45
S.bdy.sec.10,T.12 S.,R.12 E.	S.89°55'W.	80.21		.12		80.21
S.bdy.sec.9,T.12 S.,R.12 E.	West	80.17				80.17
S.bdy.sec.8,T.12 S.,R.12 E.	S.89°52'W.	80.10		.19		80.10
W.bdy.sec.8,T.12 S.,R.12 E.	N.1°30'E.	43.35	43.34		1.13	
W.bdy.sec.8 T.12 S.,R.12 E.	North	36.65	36.65			
W.bdy.sec.5,T.12 S.,R.12 E.	North	3.40	3.40			
W.bdy.sec.5,T.12 S.,R.12 E.	N.0°06'E.	80.00	80.00		.14	
Convergency					.20	
Totals			163.39	164.68	401.47	401.53
Error in lat.				163.39		
				.99		
Error in dep.						401.47
						.06

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

John R. Stewart.
U.S.Deputy Surveyor.

June 20,1902.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ retracement of the lines bet. secs 7 and 8; and the W. halves of secs. 12 and 13, T. 12 S. R. 12 E. of S. L. B. & M. showing the respective capacities in which they acted:

Hyrum G. Smith, Chainman.
John G. Smith, Chainman.
Jacob H. Acord, Moundman.
Edwin H. Peay, Moundman.
Joseph H. Passey, Axman.
Andy J. Stewart, Axman.
Otto R. Stewart, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the lines bet. secs. 7 and 8; and the W. halves of secs. 12 and 13 T. 12 S. R. 12 E. of S. L. B. and M.

~~of the~~ meridian, ~~of~~, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced by him and under his direction; and that said ~~survey~~ retracement 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 G. Smith, Chainman.
John G. Smith, Chainman.
Jacob A. Acord, Moundman.
Edwin A. Peay, Moundman.
Joseph A. Passey, Axman.
Andy J. Stewart, Axman.
Otto R. Stewart, Flagman.

Subscribed and sworn to before me this 12th day of September 1907, 190-.

SEAL

John R. Stewart
U. S. Deputy Surv

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John R. Stewart, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the District of Utah, bearing date of the 2nd day of January, 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 the District of Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of the subdivisional lines in Township 12 South Range 12 East

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ 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 the District of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ retracement; 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.

John R. Stewart
United States Deputy Surveyor.

Subscribed by said John R. Stewart, and sworn to before me this 5 day of November 1902 189

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 18, 1904, 189

The foregoing field notes of the ~~survey~~ retracement of the subdivisional lines in Township 12 South Range 12 East of the Salt Lake Base & Meridian, Utah

executed by John R. Stewart under his contract No. 250, dated January 2, 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracements 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.

6—151

BLANK

PAGE

BLANK

PAGE

Exd [illegible]

Filed Nov 3

4—679.

C.

BOOK A-293

FIELD NOTES

H.J.B.

OF THE ~~XXXXXXXX~~ retracement OF THE North and West

BOUNDARIES

of

Township No.13 South, Range No.12 East

and

of the resurvey of the

SOUTH AND EAST BOUNDARIES

of

Township No.13 South, Range No.12 East,

Of the SALT LAKE BASE AND *Meridian,*

in the STATE OF UTAH

AS SURVEYED BY

John R. Stewart, *United States Deputy Surveyor,*

Under his Contract No. 250, *dated* January 2, 1902. ~~189~~

Re *Survey commenced* June 23, 1902. ~~189~~

Re *Survey completed* June 28, 1902. ~~189~~

6—151

N Bdy Ret Contract
N " Ret line 1-58.66
W " " " 5.45.51
S " Resurvey high 5.78.80
E " " " 5.47.15
Closing 25.80

3.79.78

BOOK A-293

NAMES AND DUTIES OF ASSISTANTS.

Hyrum G.Smith	Chainman
John G.Smith	Chainman
Jacob A.Acord	Moundman
Edwin A.Peay	Moundman
Joseph A.Passey	Axman
Andy J.Stewart	Axman
Otto R.Stewart	Flagman

BOOK A-293

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Hyrum G. Smith and John G. Smith 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 and resurvey of S. and E. bdys. J. 13 S., R. 12 E.; retracement N. and W. bdys. J. 13 S., R. 12 E., retracement and resurvey S. E., and N. bdys. J. 14 S., R. 15 E.; retracement W. bdy. J. 14 S., R. 15 E.; retracement S. bdy. J. 13 S., R. 14 E.; retracement and resurvey W. bdy. J. 13 S., R. 14 E.; and retracement of fract. W. bdy. J. 12 S., R. 14 E.

Hyrum G. Smith, Chainman.

John G. Smith, Chainman.

Subscribed and sworn to before me this 15th day of June 1902, [illegible]

SEAL

John R. Stewart
U. S. Deputy Surveyor

We, Jacob A. Acord and Edwin A. Peay 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~~ retracement and resurvey of S. and E. bdys. J. 13 S., R. 12 E.; retracement N. and W. bdys. J. 13 S., R. 12 E., retracement and resurvey S. E., and N. bdys. J. 14 S., R. 15 E.; retracement W. bdy. J. 14 S., R. 15 E.; retracement S. bdy. J. 13 S., R. 14 E.; retracement and resurvey W. bdy. J. 13 S., R. 14 E.; and retracement of fract. W. bdy. J. 12 S., R. 14 E.

Jacob A. Acord, Moundman.

Edwin A. Peay, Moundman.

Subscribed and sworn to before me this 15th day of June 1902, [illegible]

SEAL

John R. Stewart
U. S. Deputy Surveyor

We, Joseph A. Passey and Andy J. Stewart 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~~ retracement and resurvey of S. and E. bdys. J. 13 S., R. 12 E.; retracement N. and W. bdys. J. 13 S., R. 12 E., retracement and resurvey S., E., and N. bdys. J. 14 S., R. 15 E.; retracement W. bdy. J. 14 S., R. 15 E.; retracement S. bdy. J. 13 S., R. 14 E.; retracement and resurvey W. bdy. J. 13 S., R. 14 E.; and retracement of fract. W. bdy. J. 12 S., R. 14 E.

Joseph A. Passey, Axman.

Andy J. Stewart, Axman.

Subscribed and sworn to before me this 15th day of June 1902, [illegible]

SEAL

John R. Stewart
U. S. Deputy Surveyor

I, Otto R. Stewart, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement and resurvey of S. and E. bdys. J. 13 S., R. 12 E.; retracement N. and W. bdys. J. 13 S., R. 12 E., retracement and resurvey S., E., and N. bdys. J. 14 S., R. 15 E.; retracement W. bdy. J. 14 S., R. 15 E.; retracement S. bdy. J. 13 S., R. 14 E.; retracement and resurvey W. bdy. J. 13 S., R. 14 E.; and retracement of fract. W. bdy. J. 12 S., R. 14 E.

Otto R. Stewart, Flagman

Subscribed and sworn to before me this 15th day of June 1902, [illegible]

SEAL

John R. Stewart
U. S. Deputy Surveyor

Retracement of North Boundary of T.13 S.,R.12 E.

Chains June 23,1902:At 7 h 2 m a.m.,l.m.t.,I set off 39° 38' N.,on the lat.arc;23° 28'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of Tps.13 and 14 S.,Rs.11 and 12 E.,which is a sandstone, 12X18x18 ins.above ground,firmly set,and marked and witnessed as described by the surveyor general .

Note:For complete test of instrument see Subdivision of T.12 S.,R.12 E.Book A.

Note:In accordance with Special Instructions I proceed to retrace the boundaries of T.13 S.,R.12 E, before commencing the subdivision of the township.

I run

N.89 52'E.,on a retracement line bet.secs.6 and 31,on S. bdy.of T.13 S.,R.12 E.,at 40.00 chs.fall 34 lks.S. of the ¼ sec.cor.,80.00 chs.fall 70 lks.S.of the cor. of secs.5,6,31,and 32,therefore I continue my lineN.89° 52'E.,find no part of the south boundary in alinement and find all the corners east of the cor.of secs.4, 5,32,and 33 missing;and at 479.10 chs.after diligent search find no trace of the cor.of Tps.13 and 14 S., Rs.12 and 13 E.,Set temp.cor.of Tps.13 and 14 S.,Rs. 12 and 13 E.

June 23,1902:At the noon hour the sky is overcast and solar observations are impossible.

Thence I run

North,on a retracement line along the East bdy.of Tp, bet.secs.31 and 36,;at 40.00 chs.I find no trace of the ¼ sec.cor.;and at 80.00 chs.find no trace of cor. of secs.25,30,31,and 36;after diligent search;therefore I continue my line North and fail to find any of the corners on the east boundary of the township,and at 446.03 Intersect S.bdy.of T.12 S.,R.13 E.,26.10 chs.East of the cor.of Tps.12 and 13 S.,R.12 and 13 E., which is a sandstone,8x12x6 ins.,above ground, firmly set,and marked and witnessed as described by the surveyor general.

Chains	
	June 23,1902.
	June 24,1902:At 7 h 3 m a.m.,l.m.t.,I set off 39° 43' N.,on the lat.arc;23° 27'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of Tps.12 and 13 S.,Rs.12 and 13 E.,heretofore described. Thence I run
	N.89° 55'W.,on a retracement line bet.secs.1 and 36, along north boundary of T.13 S.,R.12 E..
40.00	The ¼ sec.cor.,bet.secs.1 and 36,which is a sandstone, 10x18x16 ins.above ground,firmly set,and marked ,and witnessed as described by the surveyor general,bears South 6 lks.dist.
80.02	The cor.of secs.1,2,35,and 36,which is a sandstone, 10x15x12 ins.,above ground,firmlyset,and marked and witnessed as described by the surveyor general,bears S.12 lks.dist. The course of this line is.therefore West.
	N.89° 55'W.,on a retracement line bet.secs.2 and 35.
39.92	The ¼ sec.cor.,bet.secs.2 and 35,which is a sandstone, 6x12x5 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears S.7 lks.dist.
79.88	The cor.of secs.2,3,34,and 35,which is a sandstone, 6x10x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 12 lks.dist.;the course of this line is therefore West.
	N.89° 55'W.,on a retracement line bet.secs.3 and 34.
39.96	The ¼ sec.cor.,bet.secs.3 and 34,which is a sandstone,

Retracement of North Boundary of T.13 S.,R.12 E.-Continued.

Chains	
	6x12x5 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears S.8 lks.dist.
79.90	The cor.of secs.3,4,33,and 34,which is a sandstone, 8x15x12 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 16 lks.dist.
	The course of this line is therefore S.89° 58'W.

N.89° 55'W.,on a retracement line bet.secs.4 and 33.

40.00	The ¼ sec.cor.,bet.secs.4 and 33,which is a sandstone, 8x10x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 6 lks.dist.
79.98	The cor.of secs.4,5,32,and 33,which is a limestone, 8x12x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 12 lks dist.
	The course of this line is therefore West.

N.89° 55'W.,on a retracement line bet.secs.5 and 32.

39.33	The ¼ sec.cor.bet.secs.5 and 32,which is a sandstone, 5x10x10 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 71 lks.dist.
78.66	The cor.of secs.5,6,31,and 32,which is a sandstone, 5x9x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 142 lks.dist.
	The course of this line is therefore S.89° 03'W.78.67 chs.

Chains

N.89° 55'W.,on a retracement line bet.secs.6 and 31.

39.96 The ¼ sec.cor.,bet.secs.6 and 31,which is a sandstone, 6x8x9 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 6 lks.dist.

60.00 The closing cor.of Tps.13 S.,Rs.11 and 12 E.,which is a a sandstone,6x10x5 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears South 9 lks.dist.

The course of this line is therefore West.

June 25,1902.

June 26,1902:At 7 h 3 m a.m.,l.m.t.,I set off 39° 43'N.,on the lat.arc;23° 25'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor. closing cor.of Tps.13 S.,Rs.11 and 12 E.,

Thence I run

S0° 04'E.,on a retracement line bet.secs.1 and 6.along West boundary of T.13 S.,R.12 E.

39.68 The cor.of secs.1,6,7,and 12,which is a sandstone 5x9x6 ins., above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 9 lks.dist.

The course of this line is therefore S.0° 12'E.

South,on a retracement line bet.secs.7 and 12.

43.49 The ¼ sec.cor.,bet.secs.7 and 12,which is a sandstone, 5x10x6 ins.,above ground,firmly set,and marked and witnessed asdescribed by the surveyor general,bears East 68 lks.dist.

83.49 The cor.of secs.7,12,13,and 18,which is a sandstone, 5x11x4 ins.,above ground,firmly set,and marked,and witnessed as described by the surveyor general,bears

Retracement of West boundary of T.13 S.,R.12 E.-Continued.

Chains East 136 lks.dist.

The course of this line is therefore S.0° 56'E.83.50 chs.

South,on a retracement line bet.secs.13 and 18.

40.20 The ¼ sec.cor.bet.secs.13 and 18,which is a sandstone, 5x10x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 58 lks.dist.

80.53 The cor.of secs.13,18,19,and 24,which is a sandstone, 6x11x4 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 117 lks.dist.

The course of this line is therefore S.0° 50'E.80.54 chs.

June 26,1902:At the noon hour the sky is overcast and solar observations are impossible.

South,on a retracement line bet.secs.19 and 24.

40.40 The ¼ sec.cor.bet.secs.19 and 24,which is a sandstone, 5x11x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 53 lks.dist.

80.81 The cor.of secs.19,24,25,and 30,which is a sandstone, 5x9x7 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 105 lks.dist.

The course of this line is therefore S.0° 45'E.80.82 chs.

South,on a retracement line bet.secs.25 and 30 .

40.20 The ¼ sec.cor.bet.secs.25 and 30,which is a sandstone, 6x9x4 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 26 lks.dist.

Chains

80.40 The cor.of secs.25,30,31,and 36,which is a sandstone, 5x6x6 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears East 51 lks.dist.

The course of this line is therefore S.0° 22'E.

South ,on a retracement line bet.secs.31 and 36.

40.20 The ¼ sec.cor.,bet.secs.31 and 36,which is a sandstone, 5x10x10 ins.above ground,frimly set,and marked and witnessed as described by the surveyor general,bears East 26 lks.dist.

80.40 The cor.of Tps,13 and 14 S.,Rs.11 and 12 E.,heretofore described,bears East 51 lks.dist.

The course of this line is therefore S.0° 22 'E.

June 26,1902.

June 27,1902: At 7 h 3 m a.m.,l.m.t.,I set off 39° 38' N.,on the lat.arc;23° 23'N.,on the decl.arc;and determine a true meridian,with the solar,at the cor. of Tps.13 and 14 S.,Rs.11 and 12 E..

Note:On account of not finding the South and East boundaries of this township and there being no subdivision dependent thereon I proceed to resurvey the South and East Boundaries as follows:

From the above described cor.of Tps.13 and 14 S.,Rs. 11 and 12 E.,

I run

East,on a resurvey line bet.secs.6 and 31 along the south boundary of T.13 S.,R.12 E.

Over mountainous land;through dense sage brush;as-

Resurvey of South boundary of T.13 S.,R.12 E.-Continued.

Chains	
	cend .
1.15	Wagon road from Vernal to Sunnyside,bears N.and S.
4.00	Leave sage brush and enter heavy cedar and pinion pine timber,bears N.and S.
8.00	Top of ridge,150 ft.above sec.cor.,bears N.and S.; descend .
20.00	Bottom of hollow,100 ft.below ridge,course S.20° E.; ascend .
22.50	Top of spur,75 ft.above hollow,bears N.and S.;descend .
23.50	Leave timber,bears N and S.
33.25	Bottom of hollow,100 ft.below ridge,course S.30° W.; ascend .
38.80	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for re-established ¼ sec.cor.,marked ¼ on N.face;from which
	A pinion pine,8 ins.diam.,bears N.20° E.,55 lks.dist.,,marked ¼ S.31,B.T.
	A pinion pine,5 ins.diam.,bears S.,70 lks. dist.,marked ¼ S.6,B.T.
	The old ¼ sec.cor.,which is a sandstone,11x9x8 ins. marked and witnesses as described by the surveyor general,bears North 43 lks.dist.I destroy all traces of the old cor.
74.00	Top of ridge,150 ft.above hollow,bears N.W.and S.E.; descend.
78.80	*Allowing for convergency of meridian.*
	Set a sandstone,16x8x4 ins.,11 ins.in the ground,for cor.of secs.5,6;31,and 32,marked with 5 notches on E.and 1 notch on W. edges;from which
	A pinion pine,8 ins.diam.,bears N.55° E.,65 lks.dist.,marked T.13 S.,R.12 E.,S.32,B.T.
	A pinion pine,8 ins.diam.,bears S.30° E.,70 lks.dist.,marked T.14 S.,R.12 E.,S.5,B.T.
	A pinion pine,8 ins.diam.,bears S.18° W.,35 lks.dist.,marked T.14 S.,R.12 E.,S.6,B.T.
	A pinion pine,8 ins.diam.,bears N.20° W.,90 lks.dist.,marked T.13 S.,R.12 E.,S.31,B.T.

Resurvey of South Boundary of T.13 S.,R.12 E.-Continued.

Chains	
	Land,mountainous.
	Soil,clay;3rd rate.
	Timber,pine and cedar.
	Undergrowth,sage brush.
	A very little grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,78.80 chs.
	Note:The old cor.of secs.5,6,31,and 32,which is a sandstone,5x10x10 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general,bears North 88 lks.dist.
	I destroy all traces of the old cor. This cor.is in bottom of hollow,course N.70°W.
	East,on a resurvey line bet.secs. 5 and 32.
	Over mountainous land;through heavy timber;ascend.
10.00	Top of ascent,100 ft.above sec.cor.,bears N.and S.
	Thence over rolling mesa.
40.00	Set a sandstone,14x10x5 ins.,9 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pinion pine,4 ins.diam.,bears N.18°E.,22 lks.dist.,marked ¼ S.32,B.T.
	A pinion pine,6 ins.diam.,bears S.22°W.,46 lks.dist.,marked ¼ S.5,B.T.
	The old ¼ sec.cor.,which is a sandstone,5x9x8 ins. above ground,firmly set,and marked and witnessed as described by the surveyor general,bears S.80°E., 105 lks.dist.,I destroy all traces of the old cor.
80.00	Set a sandstone,24x10x5 ins.,18 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;from which
	A pinion pine,7 ins.diam.,bears N.65°E.,7 lks.dist.,marked T.13 S.,R.12 E.,S.33,B.T.
	A pinion pine,6 ins.diam.,bears S.64°E., 72 lks.dist.,marked T.14 S.,R.12 E.,S.4,B.T.

Resurvey of South Boundary of T.13 S.,R.12 E.-Continued.

Chains	
	A pinion pine,5 ins.diam.,bears S.33°W.,103 lks.dist.,marked T.14 S.,R.12 E.,S.5,B.T.
	A pinion pine,5 ins.diam.,bears N.43°W.,58 lks.dist. ,marked T.13 S.,R.12 E.,S.32,B.T.
	Land,mountainous and rolling mesa.
	Soil,clay;3rd rate.
	Timber,pinion pine and cedar.
	A very little grass .
	Mountainous or heavily timbered land,80.00 chs.
	The old cor.of secs.4,5,32,and 33,which is a sandstone,4x9x9 ins.,above ground,firmly set;and marked and witnessed as described by the surveyor general, bears N.30°E.203 lks.dist.I destroy all traces of the old cor.
	East,on a resurvey line bet.secs.4 and 33.
	Over rolling mesa;through heavy timber.
9.00	Leave mesa,bears N.and S.;descend .
13.50	Leave timber and enter dense undergrowth,bears N.and S.
20.00	Road,bears N.and S.
32.50	Bottom of hollow,60 ft.below mesa,course S.; Leave undergrowth and enter heavy timber,bears N.and S. Ascend .
40.00	Find no trace of old ¼ sec.cor.,after diligent search. Set a sandstone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A cedar,5 ins.diam.,bears N.20°W.,85 lks. dist.,marked ¼ S.33,B.T.
	A cedar,6 ins.diam.,bears S.15°W.,70 lks. dist.,marked ¼ S.4,B.T.
67.50	Leave timber and enter dense sage brush,bears N.and S.
70.50	Top of ridge,100 ft.above hollow,bears N.and S.;des-

Resurvey of South boundary of T.13 S.,R.12 E.-Continued.

Chains	
	cend .
73.00	Bottom of hollow,,70 ft.below ridge,course S.
	Enter heavy timber and leave undergrowth,bears N.and
	.S. Ascend .
76.00	Top of ridge,200 ft.above hollow,bears N.and S.;des-
	cend .
79.50	Bottom of hollow,150 ft.below ridge,course S.;ascend.
80.00	Find no trace of old cor.of secs.3,4,33,and 34.
	Set a sandstone,24x12x5 ins.,18 ins.in the ground,for
	cor.of secs.3,4,33,and 34,marked 3 notcheson E.and
	3 notches on W.edges;from which
	A pinion pine,6 ins.diam.,bears N.50° E.,6
	lks.dist.,marked T.13 S.,R.12 E.,S.34,B.T.
	A cedar,4 ins.diam.,bears S.32° E.,75 lks.
	dist.,marked T.14 S.,R.12 E.,S.3,B.T.
	A cedar,7 ins.diam.,bears S.68° W.,5 lks.
	dist.,marked T.14 S.,R.12 E.,S.4,B.T.
	A pinion pine,5 ins.diam.,bears N.60° W.,25
	lks.dist.,marked T.13 S.,R.12 E.,S.33,B.T.
	Land,mountainous and rolling mesa.
	Soil,sandy and clay;3rd rate.
	Timber,pinion pine and cedar.
	Undergrowth,sage nrush.
	A very little grass.
	Mountainous or heavily timbered land,or land covered
	with dense undergrowth,80.00 chs.
	June 27,1902:At this cor.I set off 23° 21'N.,on the
	decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun
	on the meridian,the resulting lat.is 39° 38'N.
	East,on a resurvey line bet.secs.3 and 34.
	Over mountainous land;through heavy timber;;ascend .
10.00	Top of ridge,40 ft.above sec.cor.,bears N.20° W.and
	S.20° E.;descend .
13.80	Road from Wellington to Dug Out Canon,bears N.and S.

Chains	
18.20	Bottom of hollow,125 ft.below ridge,course S.E.;ascend.
31.00	Top of ridge,200 ft.above hollow,bears N.E.and S.W. Descend.
33.50	Leave heavy and enter scattering timber,bears N.and S.
38.50	Bottom of hollow,150 ft.below ridge,course S.W.;ascend.
40.00	Find no trace of old ¼ sec.cor.,after diligent search. Set a sandstone,20x9x7 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which A pinion pine,9 ins.diam.,bears N.35° W.,38 lks.dist.,marked ¼ S.34,B.T. A pinion pine,5 ins.diam.,bears S.10° E.,150 lks.dist.,marked ¼ S.3,B.T.
40.75	Top of ridge,20 ft.above hollow,bears N.E.and S.W.; descend.
50.50	Bottom of hollow,30 ft.below ridge,course S.;ascend.
68.25	Top of ridge,150 ft.above hollow,bears N.and S.;descend.
80.00	Find no trace of old cor.of secs.2,3,34,and 35,after diligent search. Set a sandstone,28x12x8 ins.,21 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 pinion pine,6 ins.diam.,bears N.40° E.,65 lks.dist.,,marked T.13 S.,R.12 E.,S,35,B.T. A pinion pine,5 ins.diam.,bears S.75° E.,75 lks.dist.,marked T.14 S.,R.12 E.,S.2,B.T. A pinion pine,5 ins.diam.,bears S.69° E.,68 lks.dist.,marked T.14 S.,R.12 E.,S.3,B.T. A cedar,4 ins.diam.,bears N.40° W.,60 lks. dist.,marked T.13 S.,R.12 E.,S.34,B.T. Land,mountainous. Soil,sandy and clay;3rd rate. Timber,cedar and pinion pine. A very little grass.

Chains	
	Mountainous or heavily timbered land,80.00 chs.
	East,on a resurvey line bet.secs.2 and 35.
	Over mountainous land;through heavy timber;descend.
7.25	Bottom of hollow,75 ft.below sec.cor.,course S.20°E.; ascend.
11.50	Top of ridge,125 ft.above hollow,bears N.and S.;descend.
18.00	Bottom of hollow,100 ft.below ridge,course S.E.;ascend.
31.25	Top of ridge,150 ft.above hollow,bears N.and S.;descend.
40.00	Find no trace of old ¼ sec.cor.Search diligently. Set a sandstone,18x11x8 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which A pinion pine,6 ins.diam.,bears N.25°E.,75 lks.dist.,marked ¼.S.35,B.T. A cedar,5 ins.diam.,bears S.45°E.,24 lks. dist.,marked ¼ S.2,B.T.
53.60	Bottom of hollow,150 ft.below ridge,course S.;ascend.
66.75	Top of ridge,200 ft.above hollow,bears N.and S.;descend.
80.00	Search diligently but find no trace of old cor.of secs. 1,2,35,and 36. Set a sandstone,24x12x8 ins.,18 ins.in the ground,for cor.of secs.1,2,35,and 36,marked with 1 notch on E.and 5 notches on W.edges;from which A cedar,5 ins.diam.,bears N.45°E.,130 lks. dist.,marked T.13 S.,R.12 E.,S.36,B.T. A pinion pine,12 ins.diam.,bears S.36°E.,150 lks.dist.,marked T.14 S.,R.12 E.,S.1,B.T. A cedar,10 ins.diam.,bears S.50°W.,20 lks. dist.,marked T.14 S.,R.12 E.,S.2,B.T. A pinion pine,10 ins.diam.,bears N.66°W.,90 lks.dist.,marked T.13 S.,R.12 E.,S.35,B.T.

Chains	
	Land,mountainous.
	Soil,sandy and clay;3rd rate.
	Timber,pine and cedar.
	Undergrowth,a few scattering sage brush.
	A very little grass.
	Mountainous or heavily timbered land,80.00 chs.
	East,on a resurvey line bet.secs.1 and 36.
	Over mountainous land;through heavy timber; descend .
17.50	Bottom of hollow,50 ft.below sec.cor.,course S.; ascend .
40.00	Find no trace of old ¼ sec.cor.,bet.secs.1 and 36, after diligent search.
	Set a sandstone,18x10x5 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pinion pine,9 ins.diam.,bears N.56° E.,45 lks.dist.,marked ¼ S.36,B.T.
	A pinion pine,10 ins.diam.,bears S.35° W.,19 lks.dist.,marked ¼.S.1,B.T.
47.50	Leave timber and enter dense undergrowth,bears N.10° E. and S.10° W.
47.75	Wagon road from Wellington to Pace Canon,bears N.and S.
60.00	Top of ridge,100 ft.above hollow,bears N.and S.;descend .
62.00	Enter heavy cedar and pinion pine timber,bears N.and S.
75.00	Bottom of hollow,50 ft.below ridge,course S.W.;ascend .
80.00	I search diligently all the ground within a radius of 10.00 chs.from this cor.but fail to find any trace of the old cor.of Tps.13 and 14 S.,Rs.12 and 13 E.
	Set a sandstone,36x12x6 ins.,27 ins.in the ground,for

Chains

cor.of Tps.13 and 14 S.,Rs.12 and 13 E.,marked with 6 notches on each edge;from which

A pinion pine,8 ins.diam.,bears N.32° E.,68 lks.dist.,marked T.13 S.,R.13 E.,S.31,B.T.

A pinion pine,5 ins.diam.,bears S.31° E.,75 lks.dist.,marked T.14 S.,R.13 E.,S.6,B.T.

A cedar,10 ins.diam.,bears S.57° W.,68 lks. dist.,marked T.14 S.,R.12 E.,S.1,B.T.

A cedar,5 ins.diam.,bears N.68° W.,105 lks. dist.,marked T.13 S.,R.12 E.,S.36,B.T.

Land,mountainous.

Soil,sandy and clay;3rd rate.

Timber,cedar and pinion pine.

Undergrowth,sage brush.

A very little grass .

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

June 27,1902.

Resurvey of East boundary of T.13 S.,R.12 E.

June 28,1902:At 7 h 3 m a.m.,l.m.t.,I set off 39° 38' N.,on the lat.arc;23° 20' N.,on the decl.arc;and determine a true meridian with the solar,at the cor.of Tps.13 and 14 S.,Rs.12 and 13 E.

Thence I run

North,on a resurvey line bet.secs.31 and 36,along East boundary of Tp.

Over mountainous land; through heavy timber ;descend .

3.00 Bottom of hollow,10 ft.below Tp.cor.,course S.W.;ascend .

38.00 Top of ridge,150 ft.above hollow,bears E.and W.;descend .

40.00 Find no trace of old ¼ sec.cor.,after diligent search. Set a sandstone,20x8x4 ins.,15 ins.in the ground,for

Resurvey of East Boundary of T.13 S.,R.12 E.-Continued.

Chains | ¼ sec.cor.,marked ¼ on W.face;from which
A pinion pine,6 ins.diam.,bears N.68° E.,60 lks.dist.,marked ¼ S.31,B.T.
A cedar,10 ins.diam.,bears N.47° W.,35 lks. dist..,marked ¼ S.36,B.T.

41.50 Bottom of hollow,70 ft.below ridge,course S.W.;ascend.

60.75 Top of ridge,300.ft.above hollow,bears E.and W.;descend .

63.75 Bottom of hollow,159 ft.below ridge,course W.;ascend.

70.00 Shale ledge,.20 ft.high,bears E.and W.

80.00 Find no trace of cor.of secs.25,30,31,and 36.
Set a sandstone,14x14x10 ins.,9 ins.in the ground,for cor.of secs.25,30,31,and 36,marked with 5 notches on N.and 1 notch on S.edges;from which
A cedar,5 ins.diam.,bears S.80° W.,50 lks. dist.,marked T.13 S.,R.12 E.,S.36,B.T.
A cedar,7 ins.diam.,bears N.10° W.,20 lks. dist.,marked T.13 S.,R.12 E.,S.25 B.T.
No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
Land,mountainous.
Soil,clay ;3rd rate.
Timber,cedar and pinion pine.
Good grass for grazing.
Mountainous or heavily timbered land,80.00 chs.

North,on a resurvey line bet.secs.25 and 30.
Over mountainous land;through scattering timber and scattering undergrowth;ascend .

1.50 Foot of perpendiculer ledge of sandstone,50 ft.high, bears N.W.and S.E.

10.00 Top of ridge,150 ft.above sec.cor.,bears E.and W.; descend .

36.00 Bottom of canon,300 ft.below ridge,course W.;ascend .

37.00 Top of spur,30 ft.above canon,bears E.and W.;des-

Chains	
	cend . . . . .
39.75	Bottom of Pace Canon,75 ft.below spur,course S.75° W.
	Ascend . . . . .
40.00	Find no trace of ¼ sec.cor.,after diligent search.
	Set a sandstone,28x12x10 ins.,21 ins.in the ground,for
	¼ sec.cor.,marked ¼ on W.face;from which
	A cedar,12 ins.diam.,bears N.12° E.,20 lks.
	dist.,marked ¼ S.30,B.T.
	A pine,10 ins. diam.,bears N.20° W.,48 lks.
	dist.,marked ¼ S.25,B.T.
41.10	Trail,bears N.70° E.and S.70° W.
53.00	Foot of perpendicular ledge,of sandstone,45 ft.high,
	bears N.E.and S.W.
55.70	Coal croppings,bear N.E.and S.W.
58.00	Sandstone,ledge 20 ft.high,bears N.25° E.and S.25° W.
65.00	Sandstone ledge,100 ft.high,bears N.E.and S.W.
70.50	Top of ridge,200 ft.above canon,bears E.and W.;des-
	cend . . . . .
80.00	Find no trace of old sec.cor.
	Set a sandstone,20x10x6 ins.,15 ins.in the ground,for
	cor.of secs.19,24,25,and 30,marked with 4 notches on
	N.and 2 notches and S.edges;from which
	A cedar,10 ins.diam.,bears N.73° E.,76 lks.
	dist.,marked T.13 S.,R.13 E.,S.19,B.T.
	A cedar,11 ins.diam.,bears S.72° E.,82 lks.
	dist.,marked T.13 S.,R.13 E.,S.30,B.T.
	A cedar,8 ins.diam.,bears S.60° W.,43 lks.
	dist.,marked T.13 S.,R.12 E.,S.25,B.T.
	A cedar,7 ins.diam.,bears N.50° W.,67 lks.dist
	marked T.13 S.,R.12 E.,S.24,B.T.
	Land,mountainous.
	Soil,clay ;3rd rate.
	Timber,pine and cedar.
	Undergrowth,sage brush.
	Mountainous land, 80.00 chs.

Chains	
	North,on a resurvey line bet.secs.19 and 24.
	Over mountainous land;through heavy timber and scattering undergrowth;descend .
3.00	Bottom of swale,40 ft.below sec.cor.,course E.;ascend .
6.50	Foot of perpendicular sandstone ledge,10 ft.high, Bears E.and W.
9.00	Top of ridge,150 ft.above swale,bears E.and W.;descend .
19.00	Bottom of hollow,100 ft.below ridge,course E.;ascend .
31.00	Foot of perpendicular ledge,,30 ft.high,bears N.E. and S.W.
33.50	Foot of perpendicular ledge,30 ft.high,Bears N.E.and S.W.
35.00	Leave timber,bears E.and W.
40.00	Find no trace of old ¼ sec.cor.
	Set a sandstone,36x16x9 ins.24 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 impracable.
60.00	Top of divide ridge,between Pace and Dug Out canons,
	300 ft.above hollow,bears N.40° E.and S.40° W.;descend.
79.50	Enter aspen saplings,bears E.and W.
80.00	Find no trace of old sec.cor.
	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for cor.of secs.13,18,19,and 24,marked with 3 notches on N.and 3 notches on S.edges;from which
	An aspen,8 ins.diam.,bears N.10° E.,12 lks. dist.,marked T.13 S.,R.13 E.,S.18,B.T.
	An aspen,4 ins.diam.,bears S.42° E.,17 lks. dist.,marked T.13 S.,R.13 E.,S.19,B.T.
	An aspen,4 ins.diam. ,bears S.21° W.,24 lks. dist.,marked T.13 S.,R.12 E.,S.24,B.T.
	An aspen,6 ins.diam.,bears N.47° W.,57 lks. dist.,marked T.13 S.,R.12 E.,S.13,B.T.

	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine.
	Undergrowth,sage brush and aspen sapplings.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	June 28,1902:At the noon hour the sky is overcast and solar observations are impossible.
	North,on a resurvey line bet.secs.13 and 18.
	Over mountainous land;through dense aspen sapplings; descend.
7.50	Leave aspen sapplings and enter dense sage brush,bears E.and W.
22.30	Bottom of right hand fork of Dug Out Canon,300 ft.below sec.cor.,course W. A small spring bears East about 10.00 chs.dist.,does not run west to line.
	Ascend
40.00	Top of ridge,205 ft.above canon,bears N.E.and S.W.
	Find no trace of old ¼ sec.cor.
	Set a sandstone,14x12x10 ins.,9 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Descend
64.50	Enter scattering aspen timber,bears E.and W.
70.85	Bottom of hollow, 50 ft.below ridge,course S.60° W.
	A spring bears S.60° W. about 3.00 chs.dist. Ascend.
71.30	A corral,on line.
72.00	Leave aspen and enter sage brush,bears E.and W.
78.50	Top of ridge,50 ft.above canon,bears N.E.and S.W.; descend
80.00	Find no trace of old sec.cor.

Resurvey of East boundary of T.13 S.,R.12 E.-Continued.

Chains	
	Set a limestone,24x14x8 ins.,18 ins.in the ground,for cor.of secs.7,12,13,and 18,marked with 2 notcheson N.and 4 notches on S.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impractic - able.
	This cor.is 8 ft.below ridge.
	Land,mountainous.
	Soil, gravelly and rocky;3rd and 4th rate.
	Timber,aspen.
	Undergrowth,sage brush,and aspen sapplings.
	Good grass for grazing.
	Mountainous land,or land covered with dense under- growth,80.00 chs.
	North,on a resurvey line bet.secs.7 and 12.
	Over mountainous land;through dense sage brush;des- cend .
22.50	Enter scattering aspen sapplings,bears N.25° E.and S.25° W.
25.00	Bottom of hollow,20 ft.below sec.cor.,course S.20° W. Ascend .
32.50	Leave aspen sapplings,and enter dense service berry, bears N.20° E.and S.20° W.
40.00	Find no trace of old ¼ sec.cor.
	Set a sandstone,18x8x6 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 impractic- able.
	This cor.is 200 ft.above hollow.
40.35	Foot of perpendicular red sandstone, ledge,75 ft. high,bears N.70° E.and S.70° W.
42.50	Top of ridge,200 ft.above hollow,bears N.E.and S.W.; descend .
56.00	Head of hollow,10 ft.below ridge,course S.60° W.;as- cend .

Resurvey of East boundary of T.13 S.,R.12 E.-Continued.

Chains	
55.00	Top of divide ridge between Dug Out and Pole Canons, 25 ft.above hollow,bears N.W.and S.E.;descend .
57.00	Enter aspen sapplings,bears E.and W.
69.00	Bottom of hollow,100 ft.below ridge,course N.W.; trail in bottom .Ascend .
74.00	Leave aspen timber,bears E.and W.
80.00	Top of ridge,100 ft.above hollow,bears N.W.and S.E. Find no trace of old sec.cor. Set a sandstone,20x12x4 ins.,15 ins.in the ground,for cor.of secs.1,6,7,and 12,marked with 1 notch on N.and 5 notches on S.edges;from which An aspen,4 ins.diam.,bears N.40° E.,72 lks. dist.,marked T.13 S.,R.13 E.,S.6,B.T. An aspen,5 ins.diam.,bears S.60° E.,70 lks. dist.,marked T.13 S.,R.13 E.,S.7,B.T. An aspen,4 ins.diam.,bears S.64° W.,130 lks.dist.,marked T.13 S. R.13 E.,S.12,B.T. An aspen ,4 ins.diam.,bears N.66° W.,120 lks.dist.,marked T.13 S.,R.12 E.,S.1,B.T. Land,mountainous. Soil,gravelly and rocky;3rd and 4th rate. Timber,aspen. Undergrowth,aspen sapplings,sage brush service berry and mahogany. Good grass for grazing. Mountainous land,or land covered with dense under-growth,80.00 chs.

North,on a resurvey line bet.secs.1 and 6.
Over mountainous land;through dense sage brush;descend gradually.

1.00	Enter dense aspen sapplings,bears N.E.and S.W.
20.00	Enter dead aspen timber,bears E.and W.and leave aspen sapplings.

Chains	
22.50	Begin abrupt descent, bears E. and W.
30.00	Leave dead timber and enter aspen sapplings, bears E. and W.
40.00	Find no trace of old ¼ sec. cor.
	Set a sandstone 24x12x5 ins., 18 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen, 6 ins., bears N. 60° E. 12 lks. dist., marked ¼ S. 6, B. T.
	An aspen, 6 ins. diam., bears N. 8° W., 25 lks. dist., marked ¼ S. 1, B. T.
47.15	Intersect N. bdy. of Tp., 25.80 chs. East of the cor. of Tps. 12 S., Rs. 12 and 13 E., heretofore described.
	Set a sandstone 18x12x6 ins., 12 ins. in the ground, for closing cor. of Tps. 13 S. Rs. 12 and 13 E., marked C. C. on S., with 6 grooves on S., E., and W. faces; from which
	An aspen 4 ins., bears S. 70° E., 6 lks. dist., marked T. 13 S., R. 13 E., S. 6, B. T.
	A pine, 6 ins. diam., bears S. 62° W., 52 lks. dist., marked T. 13 S., R. 12 E., S. 1, B. T.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, pine and aspen.
	Undergrowth, sagebrush and aspen sapplings.
	Good grass for grazing.
	Mountainous land or land covered with dense under-growth, 47.15 chs.
	Note: I search diligently all the ground within a radius of 10.00 chs. from the point 19.18 chs. East of the cor. of Tps. 12 S., Rs. 12 and 13 E., but fail to find any trace of the old Closing cor. of Tps. 13 S., Rs. 12 and 13 E.
	June 28, 1902.

Boundaries of T. 13 S., R. 12 E.,-Concluded.

LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line Designated	True bearing	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
W. bdy. T. 13 S., R. 12 E.	N. 0° 22' W.	80.40	80.40			.51
W. bdy. T. 13 S., R. 12 E.	N. 0° 22' W.	80.40	80.40			.51
W. ndy. T. 13 S., R. 12 E.	N. 0° 45' W.	80.82	80.82			1.05
W. bdy. T. 13 S., R. 12 E.	N. 0° 50' W.	80.54	80.54			1.17
W. bdy. T. 13 S., R. 12 E.	N. 0° 56' W.	83.50	83.50			1.36
W. bdy. T. 13 S., R. 12 E.	N. 0° 12' W.	39.88	39.88			.09
N. bdy. T. 13 S., R. 12 E.	East	60.00			60.00	
N. bdy. T. 13 S., R. 12 E.	N. 89° 03' E.	78.67	1.42		78.66	
N. bdy. T. 13 S., R. 12 E.	East	79.98			79.98	
N. bdy. T. 13 S., R. 12 E.	N. 89° 58' E.	79.90	.04		79.90	
N. bdy. T. 13 S., R. 12 E.	East	79.88			79.88	
N. bdy. T. 13 S., R. 12 E.	East	80.02			80.02	
N. bdy. T. 13 S., R. 12 E.	East	25.80			25.80	
E. bdy. T. 13 S., R. 12 E.	SOUTH	447.15		447.15		
S. bdy. T. 13 S., R. 12 E.	West	478.80				478.80
Convergency					.60	
Totals			447.00	447.15	484.84	483.49
				447.00	483.49	
Error in lat.				.15		
Error in dep.					1.35	

This township is mostly high and rough mountains. It is well watered for grazing purposes and is well timbered. It should be subdivided.

John R. Stewart
U. S. Deputy Surveyor.

June 28. 1902.

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.*

In final affidavit see book K. Fp. 125 R14E

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.*

In final affidavit see book K. Fp. 125 R14E

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.

For final affidavit see book K. Sp. 128 R.M.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 Jan 18 1904, 189

The foregoing field notes of the survey of the retracement of the North & West Boundaries and Resurvey of the South & East Boundaries of Township 13 South & Range Range 12 East of the Salt Lake Base & Meridian Utah

executed by John R. Stewart under his contract No. 250, dated January 2 1902, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracement, resurvey 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.

6-131

BLANK

PAGE

BLANK

PAGE

4—679.

D

BOOK A-293

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.13 South, Range No.12 East

Of the SALT LAKE BASE AND *Meridian,*

in the STATE OF UTAH

AS SURVEYED BY

John R. Stewart, *United States Deputy Surveyor,*

Under his Contract No. 250, *dated* January 2, 1902.

Survey commenced June 30, 1902.

Survey completed July 13, 1902.

6—151

57-58-08
22-24
1-51-69

NAMES AND DUTIES OF ASSISTANTS.

Hyrum G.Smith	Chainman
John G.Smith	Chainman
Jacob A.Acord	Moundman
Edwin A.Peay	Moundman
Joseph A.Passey	Axman
Andy J.Stewart	Axman
Otto R.Stewart	Flagman

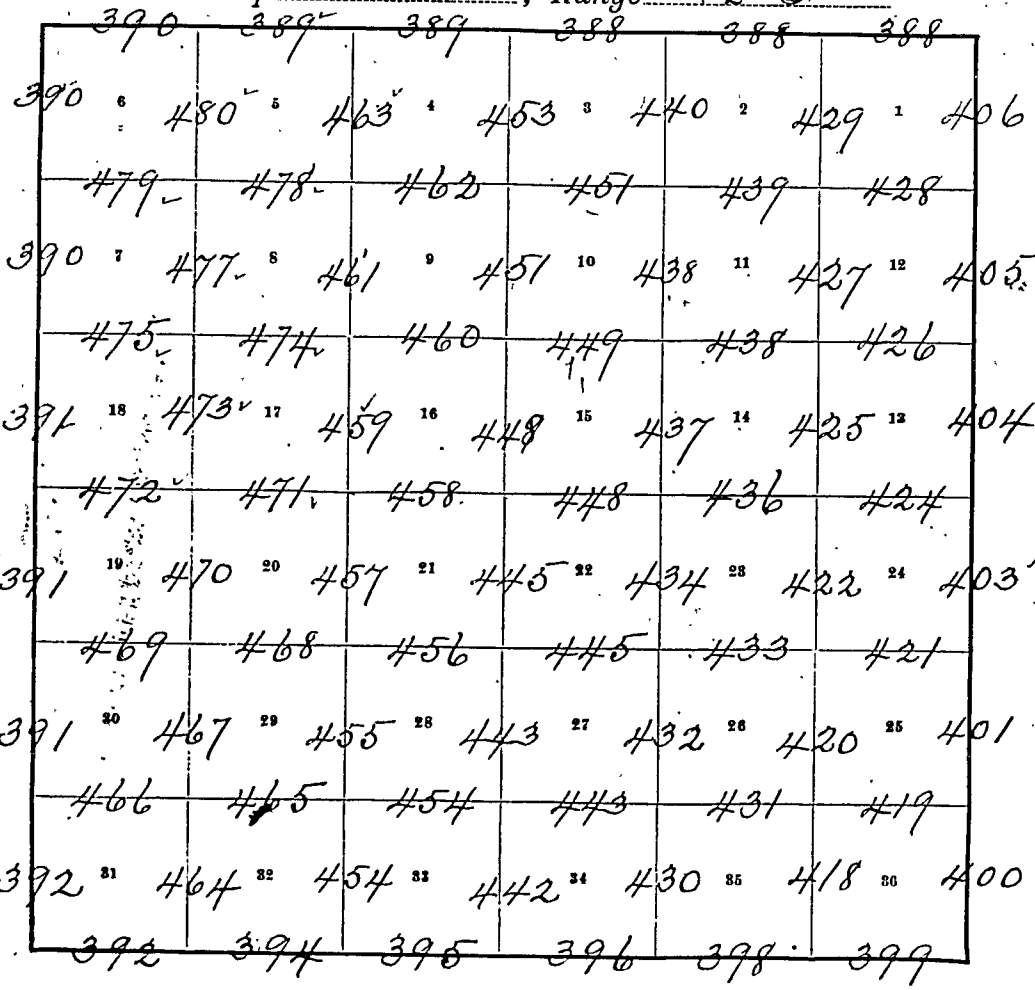
For preliminary affidavits see book A. Tp. 12 S. R. 2 E.

6—151

BOOK A-293

INDEX DIAGRAM.

Township 13 S., *Range* 12 E.



*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

Subdivision of T.13 S.,R.T2 E.

Chains

Survey commenced June 30,1902:and executed with a W. and L.E.Gurley light mountain transit,No.1,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,on June 14,1902.

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

At the cor.of secs.1,2,35,and 36,heretofore described, latitude 39° 38'N.,longitude 110° 34'W.,I set off 39° 38' N.,on the lat.arc; 23° 13'N.,on the decl.arc;and at 4 h 3 m p.m.,l.m.t.,determine a true meridian,with the solar,and mark a point thereof on a stone,set firmly in the ground,5.00 chs. N.of the cor.

June 30,1902.

"

July 1,1902:At 0 h 50 m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual, and mark a point in the line thus determined,by a tack driven in a wooden plug,set in the ground,east of the stone already set 5.00 chs.N.of the cor.

At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 35.' to the west,and mark a point in the true meridian,thus determined by cutting a small groove in the stone ,already set,5.00 chs.N.of the cor., on which the true meridin falls 0.38 ins.east of the true meridian determined with the solar.

At 7 h 0 m a.m.,l.m.t.,I set off 39° 38'N.,on the lat.

Chains	
	arc;23°11'N.,on the decl.arc;and mark a point in the true meridjan determined with the solar,by a cross on the stone,already set,5.00 chs.N.ofthe cor.;this mark falls 0.40 ins.east of the true meridian,established by Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines positions for true meridians,respectively about 0'20"west and 0'21"east of the true meridian,established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 7 h 30 m a.m.,l.m.t.,is 16°19.7'W.,the angle thus determined reduced by the table page 100 of the Manual,gives the mean mag.decl.16°14'E.
	From the cor.of secs.1,2,35,and 36,on S.bdy.of Tp., heretofore described
	I run
	N.0°01'W.,bet.secs.35 and 36.
	Over mountainous land;through heavy timber;ascend.
17.50	Top of ridge,50 ft.above sec.cor.,bears N.E.and S.W.;descend .
27.00	Bottom of hollow,60 ft.below ridge,course S.W.;ascend.
40.00	Set a sandstone,16x12x7 ins.,11 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face;from which
	A pinion pine,5 ins.diam.,bears N.45°E.,30 lks.dist.,marked ¼ S.36,B.T.
	A cedar,5 ins.diam.,bears S.70°W.,5 lks. dist.,marked ¼ S.35,B.T.
41.00	Top of ridge,100 ft.above hollow,bears N.E.and S.W.; descend .
50.00	Bottom of hollow,75 ft.below ridge,course S.W.;ascend .
80.00	Set a sandstone,18x9x4 ins.,12 ins.in the ground,for cor.of secs.25,26,35,and 36,marked with 1 notch on S.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains

and 1 notch on E.edges;from which

A pinion pine,5 ins.diam.,bears N.45° E.,49 lks.dist.,marked T.13 S.,R.12 E.,S.25,B.T.

A pinion pine,6 ins.diam.,bears S.45° E.,32 lks.dist.,marked T.13 S.,R.12 E.,S.36,B.T.

A pinion pine,6 ins.diam.,bears S.52° W.,23 lks.dist.,marked T.13 S.,R.12 E.,S.35,B.T.

A cedar,9 ins.diam.,bears N.30° W.,85 lks. dist.,marked T.13 S.,R.12 E.,S.26,B.T.

Land,mountainous.

Soil,gravelly on south half mile and rocky on north half mile;3rd and 4th rate.

Timber,pinion pine and cedar.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

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

40.00 Set temp.¼ sec.cor.

80.30 Intersect E.bdy.of Tp.,at the cor.of secs.25,30,31, and 36.

Thence I run

West,on a true line bet.secs.25 and 36.

Over mountainous land;through heavy timber;descend .

25.50 Bottom of hollow,700 ft.below sec.cor.,course S.70° W.

Ascend .

28.50 Top of spur,20 ft.above hollow,bears N.and S.;descend .

29.25 Road from Wellington to Pace canon,bears N.and S.

30.20 Bottom of Pace Canon,30 ft.below spur,course S.;ascend .

40.15 Set a sandstone,18x13x6 ins.,12 ins.in the ground,for ¼ sec.cor. marked ¼ on N.face;from which

A pinion pine,12 ins.diam.,bears N.,23 lks. dist.,marked ¼ S.25,B.T.

A pinion pine,8 ins.diam.,bears S.30° W.,57

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	lks.dist.,marked ¼ S.36,B.T.
47.00	Top of ridge,200 ft.above canon,bears N.30°W.and S.30°E.;descend .
49.00	Bottom of Gulch,30 ft.below ridge,course S.30°E.;ascend .
58.50	Top of spur,50 ft.above gulch,bears N.20°W.and S.20°E.;descend .
59.75	Bottom of Gulch,20 ft.below spur,course S.20°E.;ascend .
71.00	Top of ridge,400 ft.above gulch,bears N.and S.;descend .
74.50	Bottom of hollow,50 ft.below ridge,course S.;ascend .
79.50	Top of spur,50 ft.above hollow,bears N.and S.;descend .
80.30	The cor.of secs.25,26,35,and 36.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,pinion pine andcedar.
	Good grass for grazing.
	Mountainous land,or heavily timbered land,80.30 chs.

N.0°01'W.,bet.secs.25 and 26 .

Over mountainous land;through heavy timber and large boulders ;ascend .

4.00	Bottom of hollow,30 ft.below sec.cor.,course S.20°W.; ascend .
27.67	Foot of perpendicular red sandstone,ledge 225 ft.high, bears E.and W..There is a two foot vein of coal on face of ledge. Leave boulders.
40.00	Set a sandstone,18x6x5 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A red pine,10 ins.diam.,bears S.20°E.,60 lks.dist.,marked ¼ S.25,B.T.
	A pinion pine,10 ins.diam.,bears N.30°W.,25 lks.dist.,marked ¼ S.26,B.T.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
53.46	Top of rocky ridge,800 ft.above hollow,bears N.60° W. and S.60° E.;descend .
60.00	Bottom of hollow,60 ft.below ridge,course E.;ascend.
70.50	Top of ridge,100 ft.above hollow,bears E.and W.;descend .
78.00	Bottom of hollow,75 ft.below ridge,course E.;ascend .
80.00	Set a sandstone,20x11x4 ins.,15 ins.in the ground,for cor.of secs.23,24,25,and 26,marked with 2 notches on S.and 1 notch on E.edges;from which A pinion pine,8 ins.diam.,bears N.35° E.,44 lks.dist.,marked T.13 S.,R.12 E.,S.24,B.T. A pinion pine,4 ins.diam.,bears S.25° E.,45 lks.dist.,marked T.13 S.,R.12 E.,S.25,B.T. A cedar,8 ins.diam.,bears S.35° W.,60 lks. dist.,marked T.13 S.,R.12 E.,S.26,B.T. A cedar,5 ins.diam.,bears N.55° W.,60 lks. dist.,marked T.13 S.,R.12 E.,S.23,B.T.
	Land,mountainous.
	Soil,rocky;4th rate.
	Timber,cedar and pinion pine.
	No grass.
	Mountainous or heavily timbered land,80.00 chs.
	July 1,1902;At this cor.I set off 23° 09'N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 40'N.
	East,on a random line bet. secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.20	Intersect E.bdy.of Tp.,at the cor.of secs.19,24,25,and 30.,heretofore described.
	Thence I run
	West,on a true line bet.secs.24 and 25.
	Over mountainous land;through heavy timber;ascend along north slope of ridge.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
35.00	Leave timber,bears N.and S.
40.10	Top of ridge,700 ft.above sec.cor.,bears N.35° E.and S.35° W.;
	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.
	Descend .
57.00	Bottom of hollow,500 ft.below ridge,course S.10° W.;
	ascend .
80.20	The cor.of secs.23,24,25,and 26.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine.
	A very little grass .
	Mountainous or heavily timbered land,80.20 chs.

	N.0° 01'W.,bet.secs.23 and 24.
	Over mountainous land;through cedar and pinion pine timber;ascend .
2.20	Foot of sandstone,ledge,50 ft.high,bears N.E.and S.W.
3.00	Top of rocky ridge,divide between Pace and Dug Out canons,50 ft.above sec.cor.,bears N.E.and S.W.;descend .
8.00	Bottom of hollow,75 ft.below ridge,course N.60° W.;ascend .
12.00	Leave timber,bears N.W.and S.E.
17.50	Top of ridge,60 ft.above hollow,bears N.W.and S.E.; descend .
19.44	Top of sandstone,ledge,60 ft.high,Bears N.60° E.and S. 60° W.
	Enter heavy timber,bears N.60° E.and S.60° W.
29.50	Bottom of hollow,250 ft.below ridge,course N.W.;ascend .

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
30.00	Leave timber and enter dense undergrowth,bears N.W. and S.E.
40.00	Set a sandstone,18x7x5 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.
43.00	Top of ridge,50 ft.above hollow,bears E.and W.;descend .
50.00	Enter timber,bears N.35°W.and S.35°E.
54.00	Bottom of hollow,300 ft.below ridge,course W.;asced.
54.10	Leave timber,bears E.and W.
55.00	Foot of sandstone, ledge,75 ft.high,bears N.60°E.and S.60°W.
58.00	Top of ridge,125 ft.above hollow,bears E.and W.;descend .
73.50	Enter heavy timber,bears E.and S.30°W.
78.00	Bottom of right hand fork of Dug Out Canon,200 ft. below ridge,course S.35°W.;ascend .
80.00	Set a sandstone,18x9x6 ins.,12 ins.in the ground,for cor.of secs.13,14,23,and 24,marked with 3 notches on S.and 1 notch on E.edges;from which A red pine,14 ins.diam.,bears N.75 °E.,220 lks.dist.,marked T.13 S., R.12 E.,S.13,B.T. A red pine,5 ins.diam.,bears S.70°E.,150 lks.dist.,marked T.13 S.,R.12 E.,S.24,B.T. No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable. Land,mountainous. Soil,rocky;4th rate. Timber,cedar and pine. Undergrowth,secvice berry deer and sage brush. Good grass for grazing. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Subdivision of T.13 S.,R.12 E. -Continued.

Chains	
	East,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.30	Intersect E.bdy.of Tp.,16 lks.S.of the cor.of secs. 13.18,19,and 24,heretofore described.
	Thence I run
	S.89° 53'W.,on a true line bet.secs.13 and 24.
	Over mountainous land;through dense sage brush;and aspen sapplings;ascend .
7.00	Leave aspen sapplings,bears N.and S.
9.00	Top of ridge,30 ft.above sec.cor.,bears N.and S.;descend .
12.00	Leave sage brush and enter heavy timber,bears N.and S.
22.00	Bottom of hollow,125 ft.below ridge,course N.;ascend .
27.00	Leave timber and enter densesage brush,bears N.and S.
33.00	Top of ridge,150 ft.above hollow,bears N.and S.;descend .
38.50	Enter heavy pine and aspen timber,bears N.60°E.and S.60°W.;and leave sage brush .
40.15	Set a sandstone,16x14x8 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,8 ins.diam.,bears N.24°E.,13 lks. dist. marked ¼ S.13,B.T.
	A red pine,12 ins.diam.,bears S.20°W.,140 lks.dist..marked ¼ S.24,B.T.
50.00	Leave heavy and enter scattering timber,bears N.and S.
74.40	Bottom of right hand fork of Dug Out Canon,300 ft. below ridge,course S.W.;ascend .
80.30	The cor.of secs.13,14,23,and 24.
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th rate,
	Timber,pine and cedarand aspen .
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	with dense undergrowth,80.30 chs.
	July 1,1902.
	July 2,1902:At 7 h 2 m a.,m.,l.m.t.,I set off 39° 41' N.,on the lat.arc;23° 07' N.,on the decl.arc;and determine a true meridian,with the solar,at the cor. of secs.13,14,23,and 24.
	Thence I run
	N.0° 01'W.,bet.secs.13 and 14.
	Over mountainous land;through dense undergrowth;ascend .
4.23	Foot of perpendicular ledge,20 ft.high,bears N.E.and S.W.
23.50	Top of ridge,350 ft.above sec.cor.,bears N.25° E.and S.25° W.;descend .
25.50	Enter heavy timber,bears E.and W,,and leave sage brush.
40.00	Set a sandstone,18x14x5 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which A pine,5 ins.diam.,bears S.40° E.,53 lks. dist.,marked ¼ S.13,B.T. A pine,6 ins.diam.,bears W.,40 lks.dist., marked ¼ S.14,B.T.
53.50	Bottom of Dug Out Canon,250 ft.below ridge,course S.30° W.,leave timber and enter undergrowth ;ascend .
54.00	Trail,bears N.30° E.and S.30° W.
57.38	Foot of perpendicular ledge,50 ft.high,bears N.E.and S.W.
65.00	Top of spur,160 ft.above canon,bears N.80° W.and S. 80° E.;descend.
77.50	Enter aspen sapplings,bears N.20° W.and S.20° E.
78.50	Bottom of hollow,100 ft.below ridge,course S.20° E.; ascend .
80.00	Set a limestone,16x6x6 ins.,11 ins.in the ground,for cor.of secs.11,12,13,and 14,marked with 4 notches on

Chains	
	S.and 1 notch on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous.
	Soil,gravelly ;3rd rate.
	Timber,pine and aspen.
	Undergrowth,oak,sage,deer,and mahogany brush and aspen sapplings.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	N.89° 53'E.,on a random line bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp.,16 lks.N.of the cor.of secs. 7,12,13,and 18,heretofore described.
	Thence I run
	West,on a true line bet.secs.12 and 13.
	Over mountainous land;through dense undergrowth;descend .
4.00	Enter aspen sapplings,bears N.and S.
5.50	Bottom of hollow,20 ft.below sec.cor.,course S.;ascend .
14.50	Top of ridge,100 ft.above hollow,bears N.and S.;descend .
20.00	Bottom of hollow,40 ft.below ridge,course S.;ascend
32.00	Top of ridge,75 ft.above hollow,bears N.20° E.and S. 35° W.;descend .
32.10	Enter scattering timber,bears N .and S.
40.00	Set a sandstone,22x14x4 ins.,16 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pine,5 ins.diam.,bears N.33° W.,52 lks. dist.,marked ¼ S.12,B.T.
	A pine,6 ins.diam.,bears S.11 °E.,56 lks. dist.,marked ¼ S.13,B.T.
54.00	Top of ledge,10 ft.high,bears N.and S.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
54.75	Bottom of Dug Out Canon,350 ft.below ridge,course S.30°W.
	Leave timber and enter dense undergrowth. Ascend .
70.00	Top of ridge,200 ft.above canon,bears N.and S.;descend .
80.00	The cor.of secs.11,12,13,and 14.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber.,pine and aspen.
	Undergrowth,sage brush and aspen sapplings.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.00 chs.
	——— ———
	N.0°01'W.,bet.11 and 12.
	Over mountainous land;through dense undergrowth;ascend .
25.00	Top of ridge,150 ft.above sec.cor.,bears N.W.and S.E.
	Descend .
28.50	Enter aspen sapplings,bears E.and W.
40.00	Set a sandstone,24x16x8 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen,4 ins.diam.,bears N.85°E.,25 lks. dist.,marked ¼ S.12,B.T.
	An aspen,4 ins.diam.,bears S.78°W.,37 lks. dist.,marked ¼ S.11,B.T.
42.00	Leave aspen sapplings,and enter dense undergrowth; bears E.and W.
43.25	Bottom of Dug Out Canon,125 ft.below ridge,course S.E.;ascend ..
43.30	Trail,bears same as canon.
67.50	Top of divide ridge between Dug Out Canon and Pole Canon,500 ft.above canon,bears N.E.and S.W.;descend .
68.00	Enter heavy aspen timber ,bears E.and W.
80.00	Set a sandstone,28x10x9 ins.,21 ins.in the ground,for

Chains cor.of secs.1,2,11,and 12,marked with 5 notches on S.and 1 notch on E.edges;from which

An aspen,8 ins.diam.,bears N.75° E.,80 lks. dist.,marked T.13 S.,R.12 E.,S.1,B.T.

An aspen,8 ins.diam.,bears S.70° E.,86 lks. dist.,marked T.13 S.,R.12 E.,S.12,B.T.

An aspen,5 ins,diam.,bears S.60° W.,75 lks.. dist., marked T.13 S.,R.12 E.,S.11,B.T.

An aspen,8 ins.diam.,bears N.25° W.,70 lks. dist.,marked T.13 S.,R.12 E.,S.2,B.T.

Land,mountainous.

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

Timber,aspen.

Undergrowth,sage ,deer brush and aspen saplings.

Goodgrass for grazing.

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

July 2,1902:At the noon hour the sky is overcast and solar observations are impossible.

East,on a random line bet.secs.1 and 12.

40.00 Set temp.¼ sec.cor.

80.30 Intersect E.bdy.of Tp.,14 lks.N.,of the cor.of secs. 1,6,7,and 12,heretofore described.

Thence I run

N.89° 54' W.,on a true line bet.secs.1 and 12.

Over mountainous land;through dense undergrowth ;descend .

1.25 Leave undergrowth and enter heavy aspen timber,bears N.and S.

8.00 Bottom of canon,100 ft.below sec.cor.course N.W.;ascend . Trail in bottom

30.93 Leave timber,bears N.and S.

40.15 Set a sandstone,20x14x5 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.
47.50	Top of ridge,100 ft.above canon,bears N.and S.;descend.
67.00	Top of ledge of sandstone,30 ft.high,bears N.and S.
80.30	The cor.of secs.1,2,11,and 12.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage and deer brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.30 chs.

Note:Knowing from former connections that this line will not intersect N.bdy.of Tp.within limits,

I run

N.0° 01'W.,on a true line bet.secs.1 and 2.

Over mountainous land;through heavy aspen timber;descend.

5.00	Bottom of hollow,100 ft.below sec.cor.,course N.10°E. Ascend.
22.50	Top of ridge,30 ft.above hollow,bears N.30°E.and S. 30°W.;descend.
30.00	Bottom of Pole Canon,100 ft.below ridge,course N.E.; ascend.
35.00	Top of ridge,10 ft.above canon,bears E.and W.;descend.
40.00	Set a sandstone,24x12x6 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	An aspen,5 ins.diam.,bears S.25°E.,25 lks. dist.,marked ¼ S.1,B.T.
	An aspen,4 ins.diam.,bears S.70°W.,36 lks. dist.,marked ¼ S.2,B.T.
	This cor.is 40 ft.below ridge.
41.00	Bottom of hollow,50 ft.below ridge,course E.;ascend.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
42.00	Leave aspen timber and enter sage brush and service berry,bears E.and W.
47.00	Intersect N.bdy.of Tp.,25.30 chs.East of the cor.of secs.1,2,35,and 36,heretofore described.
	Set a sandstone,20x10x8 ins.,15 ins.in the ground,for closing cor.of secs.1 and 2,marked with C.C.on S., and 1 groove on E.and 5 grooves on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.Pits impracticable.
	Note:I destroy all marks on the cor.of secs.1,2,35, and 36,which pertain to secs.1 and 2.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage and service berry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,47.00 chs.
	July 2,1902.

July 3,1902:At 7 h 3 m a.m.,l.m.t.,I set off 39° 38'N., on the lat.arc,23° 02' N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of secs.2,3,34,and 35,on S.bdy.of Tp.,heretofore described.

Thence I run

N.0° 01'W.,bet.secs.34 and 35.

Over mountainous land;through heavy timber;descend.

7.75	Bottom of Hollow,60 ft.below sec.cor.,course S.E.;ascend .
9.00	Leave timber and enter dense sage brush,bears E.and W.
22.60	Leave sage brush and heavy timber,bears E.and W.
32.50	Begin steep ascent,bears E.and W.
40.00	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	¼ sec.cor.,marked ¼ on W.face;from which
	A pinion pine,5 ins.diam.,bears N.45° E.,58 lks.dist.,marked ¼ S.35,B.T.
	A pinion pine,4 ins.diam.,bears S.40° W.,55 lks.dist.,marked ¼ S.34,B.T.
46.00	Top of ascent,150 ft.above hollow,bears N.E.and S.W.
	Thence over rolling mesa.
73.00	Leave timber,bears N.E.and S.W.
80.00	Set a sandstone,16x10x5 ins.,11 ins.in the ground,for cor.of secs.26,27,34,and 35,marked with 1 notch on S.and 2 notches on E.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous and rolling mesa.
	Soil,clay;3rd rate.
	Timber,cedar and pinion pine.
	Undergrowth,sage brush.
	No grass.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,73.00 chs.
	East,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.24	Intersect N.and S.line,14 lks.N.,of the cor.of secs. 25,26,35,and 36.
	Thence I run
	N.89° 54' W.,on a true line bet.secs.26 and 35.
	Over mountainous land;through heavy timber;descend
1.75	Bottom of steep gulch,40 ft.below sec.cor.;course S.20° W.;ascend
4.00	Top of ridge,40 ft.above gulch,bears N.and S.;descend
23.00	Bottom of hollow,100 ft.below ridge,course S.30° W.;
30.00	ascend Top of ridge brs. N & S- descend
40.12	Set a sandstone,28x15x6 ins.,21 ins.in the ground,

Subdivision of T.13 S.,R.12 E.,Continued.

Chains	
	for ¼ sec.cor.,marked ½ on N.face from which
	A pinion pine,4 ins.diam.,bears N.45° W.,25 lks.dist.,marked ½ S.26,B.T.
	A pinion pine,8 ins.diam.,bears S.45° W.,30 lks.dist.,marked ½ S.35,B.T.
45.10	Bottom of hollow,100 ft.below ridge,course South;ascend.
52.00	Begin steep ascent,bears N.and S.
63.00	Top of ridge,300 ft.above hollow,bears N.and S.;descend.
70.00	Foot of descent,bears N.and S.Thence over rolling mesa.
76.00	Leave timber,bears N.20° E.and S.20° W.
80.24	The cor.of secs.26,27,34,and 35.
	Land,mountainous and rolling mesa.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine.
	No grass.
	Mountainous or heavily timbered land,76.00 chs.

	N.0° 01'W.,bet.secs.26 and 27.
	Over rolling mesa.
11.00	Leave mesa,bears E.and W.;ascend.
11.50	Enter heavy timber,bears E.and W.
40.00	Set a sandstone,18x8x6 ins.;12 ins.in the ground,for ¼ sec.cor.,marked ½ on W.face;from which
	A cedar,12 ins.diam.,bears N.85° E.,35 lks.dist.,marked ¼ S.26,B.T.
	A pinion pine,10 ins.diam.,bears S.75° W.,13 lks.dist.,marked ¼ S.27,B.T.
52.50	Foot of perpendicular sandstone ledge,50 ft.high,bears N.W.and S.E.
56.00	Foot of perpendicular ledge,50 ft.high,bears N.W.and S.E.
58.50	Top of divide ridge between Pace Canon and Dug Out Canon,bears N.70° W.and E.;800 ft.above sec.cor.Descend.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
74.50	Bottom of hollow,300 ft.below ridge,course W.;ascend.
78.00	Foot of ledge,50 ft.high,bears N.70° W.and S.70° E.
80.00	Set a sandstone,26x12x6 ins.,20 ins.in the ground,for cor.of secs.22,23,26,and 27,marked with 2 notches on S.and 2 notches on E.edges;from which
	A pinion pine,8 ins.diam.,bears N.31° E.,60 lks.dist.,marked T.13 S.,R.12 E.,S.23,B.T.
	A pinion pine,5 ins.diam.,bears S.20° E.,75 lks.dist.,marked T.13 S.;R.12 E.,S.26,B.T.
	A pinion pine,10 ins.diam.,bears S.3° W.,50 lks.dist.,marked T.13 S.,R.12 E.,S.27,B.T.
	A red cedar,7 ins.diam.,bears N.38° W.,98 lks. dist.,marked T.13 S.,R.12 E.,S.22,B.T.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine.
	A very little grass.
	Mountainous or heavily timbered land,69.00 chs.
	July 3,1902:At the noon hour the sky is overcast and solar observations are impossible.

69.00
11.00

	S.89° 54'E.,on a random line bet.secs.23 and 26.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.20	Intersect N.and S.line,14 lks.S.of the cor.of secs. 23,24,25,and 26.
	Thence I run
	West,on a true line bet.secs.23 and 26.
	Over mountainous land;through heavy timber;ascend
7.25	Top of divide ridge between Pace Canon and Dug Out Canon,100 ft.above sec.cor.,bears N.E.and S.W.;descend
15.00	Bottom of hollow,150 ft.below ridge,course N.W.;ascend
25.00	Top of same divide ridge as crossed at 7.25 chs.,200

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	ft.above hollow,bears N.W.and S.E.;descend .
30.00	Head of hollow,50 ft.below ridge,course S.E.;ascend.
33.00	Top of same divide ridge,as crossed at 25.00 chs.,50 ft.above hollow,bears N.E.and S.W.;descend .
40.10	Set a sandstone,18x10x5 ins.,12 ins.in the ground, for ¼ sec.cor.,marked ¼ on N.face;from which
	A red pine,7 ins.diam.,bears N.35° E.,30 lks.dist.,marked ¼ S.23,B.T.
	A pine ,10 ins.diam.,bears S.23° W.,73 lks. dist.,marked ¼ S.26,B.T.
40.50	Bottom of hollow,25 ft.below ¼ sec.cor.,and 300 ft. below ridge,course N.;ascend .
49.50	Leave timber and enter dense undergrowth,bears N.and S.
53.00	Top of ridge,75 ft.above hollow,bears N.70° W.and S. 70° E.;descend .
65.00	Leave undergrowth and enter heavy cedar and pinion pine timber,bears N.and S.
80.20	The cor.of secs.22,23,26,and 27.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,pine and cedar.
	Undergrowth,sage and mahogany brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.20 chs.

	N.0° 01'W.,bet.secs.22 and 23 .
	Over mountainous land;through scattering timber;ascend .
2.50	Top of ridge,60 ft.above sec.cor.,bears E.and W.;descend .
19.75	Bottom of hollow,75 ft.below ridge,course W.;ascend .
28.12	Road from Wellington to Dug Out Canon,bears N.60° E. and S.60° W.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
30.10	Bottom of Dug-Out Canon,400 ft.below ridge,course S.50° W.;ascend .
33.75	Foot of perpendicular ledge,20 ft.high,bears N.E.and S.W.
36.50	Foot of perpendicular ledge,15 ft.high,bears N.E.and S.W.
40.00	Set a sandstone,20x11x15 ins.,15 ins in the ground, for ¼ sec.cor.,marked ¼ on W.face;from which A cedar,7 ins.diam.,bears S.84° E.,20 lks. dist.,marked ¼ S.23,B.T. A pinion pine,10 ins.diam.,bears N.85° W.,22 lks.dist.,marked ¼ S.22,B.T.
40.70	Ledge;25 ft.high,bears N.60° E.and S.60° W.
42.00	Ledge,20 ft.high,bears N.60° E.and S.60° W .
42.18	Top of ridge,300 ft.above canon,bears N.35° E.and S. 35° W.;descend .
61.00	Top of sandstone,ledge,20 ft.high,bears N.W.and S.E.
77.50	Top of sandstone,ledge,20 ft.high,bears N.W.and S.E.
80.00	Set a sandstone,30x14x8 ins.22 ins.in the ground,for cor.of secs.14,15,22,and 23,marked with 3 notches on S.and 2 notches on E.edges;from which A pinion pine,8 ins.diam.,bears N.16° E.,80 lks.dist.,marked T.13 S.,R.12 E..S.14,B.T. A pinion pine,8 ins.diam.,bears S.47° E.,55 lks.dist.,marked T.13 S.,R.12 E.,S.23,B.T. A pinion pine,5 ins.diam.,bears S.45° W.,33 lks.dist.;marked T.13 S., R.12 E.,S.22,B.T. A pinion pine,12 ins.diam.,ebears N.42° W.,60 lks.dist.,marked T.13 S.,R.12 E.,S.15,B.T.

Land,mountainous.

Soul,gravelly and rocky;3rd. and 4th rate.

Timber,cedar and pinion pine.

Good grass for grazing.

Mountainous land,80.00 chs.

Subdivision of T.13 S.,R.12 E.Continued.

Chains	
	East,on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
80.24	Intersect N.and S.line,14 lks.N.of the cor.of secs. 13.14,23,and 24.
	Thence I run
	N.89° 54' W.,on a true line bet.secs.14 and 23.
	Over mountainous land;through dense undergrowth;ascend.
5.50	Sandstone, ledge 20 ft.high,bears N.and S.
10.00	Top of spur350 ft.above sec.corbears N.30° E.and S. 30° W.;descend.
18.00	Enter scattering timber,bears N.30° E.and S.30° W.
28.00	Begin steep descent,over ledges,bears N.30° E.and S.
40.12	Set a sandstone,24x12x4 ins.,18 ins.in the ground, for ¼ sec.cor.,marked ¼ on N.face;from which
	A red pine,9 ins.diam.,bears N.,35 lks. dist.,marked ¼ S.14,B.T.
	A red pine,5 ins.diam.,bears S.,20 lks. dist.,marked ¼ S.23,B.T.
41.00	Bottom of Dug Out Canon,500 ft.below ridge,course S. W. Leave ledges. Ascend.
41.10	Trail,bears N.E.and S.W.
73.60	Top of ridge,500 ft.above canon,bears N.40° W.and S. 40° E.;descend.
78.50	Top of ledge,75 ft.high,bears N.and S.
80.24	The cor.of secs.14,15,22,and 23.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage and mahogany brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.24 chs.

July 3,1902.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	July 5,1902:At. 7 h 3 m a.m.,l.m.t.,I set off 39° 41'N., on the lat.arc;22° 52'N.,on the decl.arc;and determine a true meridian with the solar,at the cor.of secs. 14,15,22,and 23.
	Thence I run
	N.0° 01'W.,bet.secs.14 and 15.
	Over mountainous land;through scattering timber;ascend .
1.50	Foot of ledge,10 ft.high,bears N.W.and S.E.
26.80	Top of ridge,200 ft.above sec.cor.,bears N.10°W.and S.10°E.;descend .
40.00	Set a sandstone,22x12x7 ins.,16 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face;from which
	A long leaf pine,7 ins.diam.,bears S.85°E., 80 lks.dist.,marked ¼ S.14,B.T.
	A pinion pine,12 ins.diam.,bears S.76°W.,77 lks.dist.,marked ¼ S.15,B.T.
50.00	Bottom of hollow,50 ft.below ridge,course E.;ascend .
50.50	Leave timber,bears E.and W. Enter undergrowth.
79.75	Top of divide ridge,between Pine and Dug Out Canons, 100 ft.above hollow,bears N.33°E.and S.33°W.;descend .
80.00	Set a limestone,18x12x10 ins.,12 ins.in the ground, for cor.of secs.10,11,14 ,and 15,marked with 4 notches on S.and 2 notches on E.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,pine and aspen.
	Undergrowth,sage and service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.00 chs.

Chains	
	S.89° 54'E.,on a random line bet.secs.11 and 14.
40.00	Set temp.¼ sec.cor.
80.16	Intersect N.and S.line,15 lks.S.,of the cor.of secs. 11,12,13,and 14.
	Thence I run
	West,on a true line bet.secs.11 and 14.
	Over mountainous land;through dense undergrowth;descend.
1.50	Bottom of hollow,30 ft.below sec.cor.,course S.E.;ascend
25.00	Top of ridge,300 ft.above hollow,bears N.and S.;descend
40.08	Set a sandstone,20x12x5 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.
42.50	Enter aspen sapplings,bears N.and S.
44.75	Bottom of left hand fork of Dug Out Canon,300 ft.below ridge,course S.10°E.;ascend
46.50	Leave aspen sapplings,bears N.and S.
79.50	Top of divide ridge,between Pine and Dug Out canons, 300 ft.above canon,bears N.33°E.and S.33°W.;descend
80.16	The cor.of secs.10,11,14,and 15.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	No timber.
	Undergrowth,sage and mahogany brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.16 chs.
	N.0°01'W.,bet.secs.10 and 11.
	Over mountainous land;through dense undergrowth;des-

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	cend .
30.50	Enter scattering timber,bears E.and W.
40.00	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A red pine,7 ins.diam.,bears N.50° E.,75 lks. dist.,marked ¼ S.11,B.T.
	A red pine 6ins.diam.,bears N.79° W.,25 lks. dist.,marked ¼ S.10,B.T.
58.00	Bottom of South Fork of Pine Canon,300 ft.below sec. cor.,course W.
	Leave timber,bears with canon .Ascend.
59.00	Trail,bears E.and W.
62.00	Enter heavy aspen timber,bears E.and W.
68.00	Leave timber,bears E.and W.
70.00	Top of ridge,150 ft.above canon,bears N.60° E.and S. 60° W.;descend .
79.75	Bottom of hollow,50 ft.below ridge,course W.;ascend.
80.00	Set a sandstone,18x10x8 ins.,12 ins.in the ground,for cor.of secs.2,3,10,and 11,marked with 5 notches on S.and 2 notches on E.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous.
	Soil,gravelly loam;2nd rate,
	Timber,aspen.
	Undergrowth,sage and deer brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.60 chs.
	July 5,1902:At the noon hour the sky is overcast and solar observations are impossible.

	East,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N.and S.line,10 lks.S.of the cor.of secs.

Chains	
	1,2,11,and 12.
	Thence I run
	S.89° 58' W.,on a true line bet.secs.2 and 11.
	Over mountainous land;through heavy aspen timber;descend.
1.00	Bottom of Pole Canon,10 ft.below sec.cor.course N.10° E.;ascend through scattering timber,bears with canon.
16.00	Top of divide ridge between Pine and Pole canons,300 ft.above canon,bears N.20°W.and S.20°E.;descend.
39.96	Set a sandstone,36x12x12 ins.28 ins.in the the ground, for ¼ sec.cor.,marked ¼ on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.Pits impracticable.
41.00	Bottom of hollow,100 ft.below ridge,course S.;ascend.
47.00	Top of ridge,100 ft.above hollow,bears N.and S.; descend.
77.00	Bottom of hollow,150 ft.below ridge,course S.80°W.; ascend.
79.92	The cor.of secs.2,3,10,and 11.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage and deer brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.92 chs.
	For reasons already explained
	I run
	N.0°01'W.,on a true line bet.secs.2 and 3.
	Over mountainous land;through dense undergrowth;ascend.
5.75	Top of ridge,50 ft.above sec.cor.,bears E.and W.;descend.
7.00	Enter heavy aspen timber,bears E.and W.
11.00	Bottom of hollow,100 ft.below ridge,course S.60°W.; ascend.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
13.00	Leave timber,bears E.and W.
15.00	Top of ridge,20 ft.above hollow,bears E.and W.;descend.
20.00	Enter heavy aspen timber,bears N.E.and S.W.
23.00	Leave timber,bears E.and W.
37.00	Enter heavy aspen timber,bears E.and W.
40.00	Set a sandstone,16x11x8 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which An aspen,4 ins.diam.,bears S.63° E.,60 lks. dist.,marked ¼ S.2,B.T. An aspen,5 ins.diam.,bears W.,22 lks. dist.,marked ¼ S.3,B.T.
40.75	Leave timber,bears E.and W. Bottom of hollow,100 ft.below ridge,course N.W.;ascend.
46.88	Intersect N.bdy.of Tp.,25.15 chs.East of the cor.of secs.2,3,34,and 35,heretofore described.
	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for closing cor.of secs.2 and 3,,marked C.C.on S.,with 2 grooves on E.and 4 grooves on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.Pits impracitcable.
	Note:I destroy all marks on the cor.of secs.2,3,34,and 35,which pertain to secs.2 and 3.
	Land,mountainous.
	Soil,gravelly loam ;2nd rate.
	Timber,aspen.
	Undergrowth,sage.
	Good grass for grazing.
	Mountainous or heavily timbered land,46.88 chs.

July 5,1902.

July 7,1902:At 7 h 3 m a.m.,l.m.t.,I set off 39° 38' N., on the lat.arc;22° 41' N.,on the decl.arc;and determine a true meridian,with the solar,at the cor.of secs.3,4,33,and 34,on S.bdy.of Tp.,heretofore des-

Chains	
	cribed.
	Thence I run
	N.0° 02'W.,bet.secs.33 and 34.
	Over mountainous land;through heavy timber;ascend.
39.00	Top of ridge,200 ft.above sec.cor.,bears N.E.and S.W.;descend
40.00	Set a sandstone,16x12x4 ins.,11 ins.in the ground, for ¼ sec.cor.,marked ¼ on W.face;from which
	A pinion pine,10 ins.diam.,bears N.20° E.,40 lks.dist.,marked ¼ S.34,B.T.
	A pinion pine,10 ins.diam.,bears S.85° W.,25 lks.dist.,marked ¼ S.33,B.T.
55.00	Bottom of hollow,200 ft.below ridge,course S.W.;ascend
70.00	Top of ridge,150 ft.above hollow,bears N.E.and S.W.; descend
80.00	Set a sandstone,20x10x8 ins.,15 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
	A cedar,8 ins.diam.,bears N.55° E.,75 lks. dist.,marked T.13 S.,R.12 E.,S.27,B.T.
	A cedar,12 ins.diam.,bears S.78° E.,41 lks. dist.,marked T.13 S.,R.12 E.,S.34,B.T.
	A pinion pine,4 ins.diam.,bears S.28° W.,75 lks.dist.,marked T.13 S.,R.12 E.,S.33,B.T.
	A pinion pine,12 ins.diam.,bears N.64° W.,48 lks.dist.,marked T.13 S.,R.12 E.,S.28,B.T.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar and pinion pine.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

	East,on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
80.00	Intersect N.and S.line at the cor.of secs.26,27,34,and 35.
	Thence I run
	West,on a true line bet.secs.27 and 34.
	Over rolling mesa:
3.50	Enter heavy timber,bears N.and S.
16.00	Leave mesa,bears N.20°E.and S.20°W.;descend .
24.00	Foot of descent,200 ft.below mesa,bears N.20°E.and S. 20°W.Enter bottom of flat canon.
25.00	Wash,50 lks,wide,course S.W.
40.00	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A cedar,8 ins.diam.,bears N.57°E.,67 lks. dist.,marked ¼ S.27,B T.
	A cedar,8 ins.diam.,bears S.12°W.,19 lks. dist.,marked ¼ S.34,B.T.
40.90	Road from Wellington to Dug Out Canon,bears N.and S.
42.60	Wash,50 lks.wide,course S.
46.25	Leave canon bottom,bears N.and S.;ascend .
48.00	Top of ascent,bears N.and S.;thence over mesa.
66.00	Leave mesa,bears N.20°E.and S.20°W.;descend .
72.10	Bottom of hollow,200 ft.below mesa,course S.20°W.;ascend .
76.50	Top of ridge,200 ft.above hollow,bears N.and S.;descend .
80.00	The cor.of secs.27, 28,33,and 34.
	Land,mountainous and level and rolling.
	Soil,clay ;3rd rate.
	Timber,cedar and pinion pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.

N0°02'W.,bet.secs.27 and 28.

Over mountainous land;through heavy timber;ascend .

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
20.00	Bottom of hollow,25 ft.below sec.cor.;course S.70° W.; ascend .
40.00	Set a sandstone,16x6x5 ins.,11 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which A pinion pine,11 ins.diam.,bears N.47° W.,5 lks.dist.;marked ¼ S.28,B.T. A pinion pine,10 ins.diam.,bears S.25° E.,27 lks.dist.,marked ¼ S.27,B.T.
46.00	Top of ridge,100 ft.above hollow;bears N.5° W.and S. 5° E.;descend .
57.00	Bottom of hollow,30 ft.below ridge,course S.20° E.; ascend .
68.00	Top of ridge,50 ft.above hollow,bears N.E.and S.W.; descend .
75.00	Bottom of Hollow,50 ft.below ridge,course S.W.; ascend .
80.00	Set a sandstone,24x12x4 ins.,18 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;from which A pinion pine,8 ins.diam.,bears N.40° E.,65 dist.,marked T.13 S.,R.12 E.,S.22,B.T. A pinion pine,7 ins.diam.,bears S.27° E.,109 lks.dist.,marked T.13 S.,R.12 E.,S.27,B.T. A pinion pine,5 ins.diam.,bears S ,53° W.,68 lks.dist.,marked T.13 S.,R.12 E.,S.28,B.T. A pinion pine,10 ins.diam;,bears N.40° W.,24 lks.dist.,marked T.13 S.,R.12 E.,S.21,B.T.
	Land,mountainous. Soil,gravelly;3rd rate. Timber,cedar and pinion pine. Good grass for grazing. Mountainous or heavily timbered land,80.00 chs. July 7,1902:At this cor.I set off 22° 39' N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 40' N.

Chains	
	East,on a random line bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
80.22	Intersect N.and S.line,14 lks.S.of the cor.of secs. 22,23,26,and 27.
	Thence I run
	S.89° 54'W.,on a true line bet.secs.22 and 27.
	Over mountainous land;through heavy timber;descend .
6.75	Top of perpendicular ledge,50 ft.high,bears N.and S.
11.50	Bottom of hollow,100 ft.below sec.cor.,course N.50°W.; ascend .
17.50	Top of ridge,80 ft.above hollow,bears N.60°W.and S. 60°E.;descend .
36.70	Road from Wellington to Dug Out Canon,bears N.and S.
40.00	Wash,10 lks.wide,6 ft.deep ,in bottom of Dug Out Canon,200 ft.below ridge,course S.20°W.;ascend .
40.11	Set a sandstone,18x11x4 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A cottonwood ,8 ins.diam..bears N.10°E.,60 lks.dist.,marked ¼ S.22,B.T.
	A cedar,13 ins.diam.,bears S.40°E.,33,lks. dist.,marked ¼ S.27,B.T.
72.00	Top of ridge,250 ft.above canon,bears N.and S.;des- cend .
80.22	The cor.of secs.21,22,27,and 28.
	Land,mountsinous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine, and a few cottonwood trees in bottom of Dug Out Canon.
	No grass.
	Mountainous or heavily timbered land,80.22 chs.
	N.0°02'W.,bet.secs.21 and 22.
	Over mountainous land;through heavy timber;ascend .
9.83	Foot of perpendicular sandstone ledge,70 ft.high, bears E.and W.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
11.40	Top of ridge,300 ft.above sec.cor.,bears N.E.and W.; descend .
21.90	Bottom of hollow,250 ft.below ridge,course W.;ascend .
25.81	Foot of perpendicular sandstone ledge,40 ft.high, bears E.and W.
29.90	Foot of perpendicular sandstone ledge,80 ft.high,bears E.and W. Thence over boulders and ledges.
40.00	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which A pinion pine,8 ins.diam.,bears E.,40 lks. dist.,marked ¼ S.22,B.T. A pinion pine,10 ins.diam.,bears N.20° W.,80 lks.dist..marked ¼ S.21,B.T.
42.00	Top of ridge,400 ft.above hollow,bears N.E.and S.70° W. Leave boulders and ledges. Descend .
50.00	Bottom of hollow,100 ft.below ridge,course S.80° W.; ascend .
56.50	Top of ridge,75 ft.above hollow,bears E.and W.;descend .
76.50	Bottom of hollow,300 ft.below ridge,course S.W.;ascend .
80.00	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for cor.of secs.15,16,21,and 22,marked 13 S.on N.E. and 12 E.on S.E.faces;with 3 notches on S.and 3 notches on E.edges;from which A cedar,6 ins.diam.,bears N.24° E.,60 lks. dist.,marked T.13 S.,R.12 E.,S.15,B.T. A pinion pine,11 ins.diam.,bears S.9° E.,53 lks.dist.,marked T.13 S.,R.12 E.,S.22,B.T. A pinion pine,13 ins.diam.,bears S.40° W.,72 lks.dist.,marked T.13 S.,R.12 E.,S.21,B.T. A pinion pine,5 ins.diam.,bears N.49° W.,40 lks.dist.,marked T.13 S.,R.12 E.,S.16,B.T.

Land,mountainous.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains

Soil,gravelly and rocky;3rd and 4th rate.
Timber,cedar and pinion pine.
Undergrowth,a few scattering sage brush.
No grass.
Mountainous or heavily timbered land,80.00 chs.
July 7,1902:At this cor.I set off 39° 41'N.,on the lat.arc;22° 38'N.,on the decl.arc;and at 5 h 2 m p. m.,l.m.t.,I determine a true meridian,with the solar and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

July 7,1902.

July 8,1902:At 0 h 22.5m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point in the line thus determined, by a tack driven in a wooden plug set in the ground, east of the stone already set 5.00 chs.N.of the cor.
At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 35' to the west,and mark a point in the true meridian,thus determined,by cutting a small groove in the stone,already set 5.00 chs.N.of the cor.;this mark falls 0.25 ins.east of the true meridian,determined with the solar.
At 6 h 58 m a.m.,l.m.t.,I set off 39° 41'N.,on the lat.arc;22° 34'N.,on the decl.arc;and mark a point in the true meridian,determined with the solar,by a cross on the stone already set,5.00 chs.N.of the cor.; this mark falls 0.26 ins.east of the true meridian, established by Polaris observation.
The solar apparatus by p.m.and a.m.observations ,defines positions for true meridians,respectively,about 0'13"west and 0'14"east of the true meridian,established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian,at 7 h 58 m

Subdivision of T.13 S.,R.12 E. -Continued.

Chains	
	a.m.,l.m.t.,is 16° 18.7' W.,the angle thus determined, reduced by the table page 100 of the Manual,gives the mean mag.decl.16° 13'E.
	Thence I run
	N.89° 54'E.,on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line,7 lks.S.of the cor.of secs. 14,15,22,and 23.
	Thence I run
	S.89° 51'W.,on a true line bet.secs.15 and 22.
	Over mountainous land;through heavy timber;descend.
6.00	Bottom of hollow,150 ft.below sec.cor.,course S.;ascend .
40.10	Set a sandstone, 20x8x4 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A pinion pine,15 ins.diam.,bears N.39°E.,35 lks.dist.,marked ¼ S.15,B.T.
	A pinion pine,20 ins.diam.,bears S.3°E.,59 lks.dist.,marked ¼ S.22,B.T.
41.30	Top of ridge,500 ft.above hollow,bears N.20°E.and S.20°W.;descend .
74.00	Bottom of hollow,600 ft.below ridge,course S.W.;ascend .
80.20	The cor.of secs.15,16,21,and 22.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinion pine.
	No grass
	Mountainous or heavily timbered land,80.20 chs.
	N.0° 02'W.,bet.secs.15 and 16.
	Over mountainous land;through heavy timber;ascend .
10.00	Foot of ledge,75 ft.high,bears N.80°E.and S.80°W.
19.50	Ledge,50 ft.high,bears N.60°E.and S.60°W.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
33.65	Top of ridge,600 ft.above sec.cor.,bears N.60° E.and S.60° W.;descend .
40.00	Set a sandstone,24x7x6 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face; from which
	A pine,24 ins.diam.,bears S.25° E.,25 lks. dist.,marked ¼ S.15,B.T.
	A pine,4 ins.diam.,bears W.,20 lks. dist., marked ¼ S.16,B.T.
47.85	Bottom of hollow,100 ft.below ridge,course S.W.;ascend .
53.00	Leave timber,bears N.E.and S.W.
69.85	Top of ridge,150 ft.above hollow,bears N.E.and S.W.; descend .
80.00	Set a sandstone,22x15x8 ins.,16 ins.in the ground,for cor.of secs.9,10,15,and 16,marked with 4 notches on S.and 3 notches on E.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,pine and cedar.
	Good grass for grazing .
	Mountainous land,or land covered with heavy timber, 80.00 chs.

	N.89° 51'E.,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.10,11,14, and 15.
	Thence I run
	S.89° 51'W.,on a true line bet.secs.10 and 15.
	Over mountainous land;through dense undergrowth;descend .
14.50	Enter heavy aspen timber,bears N.and S.

Chains	
15.00	Bottom of hollow,30 ft.below sec.cor.,course N.20° E.; ascend .
16.00	Leave timber,bears N.and S.
24.00	Enter scattering aspen timber,bears N.and S.
25.00	Top of ridge,100 ft.above hollow,bears N.and S.;descend .
33.50	Head of hollow,50 ft.below ridge,course S.20° W.;ascend .
40.00	Set a sandstone,18x10x9 ins.12 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face;and raise a mound of stone,2 ft.base,$1\frac{1}{2}$ ft.high,N.of cor.Pits impracticable.
45.00	Top of ridge,70 ft.above hollow,bears N.30° E.and S. 30° W.;descend .
46.00	Enter aspen sapplings,bears N.and S.
48.50	Leave aspen sapplings,bears N.and S.
-53.50	Enter heavy aspen timber,bears N.and S.
57.50	Bottom of hollow,100 ft.below ridge,course S.20° W. Leave aspen timber,bears with hollow, Ascend .
70.00	Top of ridge,100 ft.above hollow,bears N.30° E.and S.30° W.;descend .
80.00	The cor.of secs.9,10,15,and 16.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,aspen.
	Undergrowth,sage brush and aspen sapplings.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	July 8,1902:At this cor.I set off22 ° 32'N.,on the decl.arc;and at 0 h 2 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 39° 42'N.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	N.0°02'W.,bet.secs.9 and 10.
	Over mountainous land;through dense sage brush;ascend gradually.
25.00	Trail,bears E.and W.
38.50	Top of divide ridge between Spring Canon and Pine Canon,100 ft.above sec.cor.,bears E.and W.;descend
38.60	Enter scattering timber,bears E.and W.
40.00	Set a sandstone,20x13x5 ins.,15 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which An aspen,5 ins.diam.,bears N.87°E.,45 lks. dist.,marked ¼ S.10,B.T. An aspen,6 ins.diam.,bears W.,50 lks. dist.,marked ¼ S.9,B.T.
41.00	Leave timber,bears E.and W.
53.50	Enter scattering timber,bears E.and W.
69.00	Leave timber,bears E.and W.
80.00	Set a sandstone,24x9x7 ins.,18 ins.in the ground,for cor.of secs.3,4,9,and 10,marked with 5 notches on S.and 3 notches on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous.
	Soil,gravelly loam;2nd rate.
	Timber,aspen.
	Undergrowth,sage and deer brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.00 chs.
	N.89°51'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
79.80	Intersect N.and S.line,7 lks.N.of the cor.of secs. 2,3,10,and 11.
	Thence I run
	S.89°54'W.,on a true line bet.secs.3 and 10.

Chains: Over mountainous land; through dense undergrowth; descend .

6.00 Enter heavy timber, bears N. and S.

26.00 Bottom of hollow, 150 ft. below sec. cor., course S.W.

Leave timber, bears with hollow. Ascend .

35.00 Top of spur, 100 ft. above hollow, bears N. and S. descend .

39.90 Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for ¼ sec. cor., marked ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

A small spring bears South about 7.00 chs. dist. in bottom of Pine Canon.

46.00 Enter scattering timber, bears N. 60° E. and S. 60° W.

48.00 Bottom of Pine Canon, 150 ft. below spur, course N. 60° W.; ascend .

51.50 Top of spur, 50 ft. above canon, bears N.W. and S.E.; descend .

53.50 Bottom of hollow, 40 ft. below spur, course N. 30° W.; ascend .

67.50 Top of ridge, 200 ft. above hollow, bears N. and S.; descend .

75.00 Bottom of hollow, 100 ft. below ridge, course N.;

Leave timber, bears with hollow. Ascend .

79.80 The cor. of secs. 3, 4, 9, and 10.

Land, mountainous.

Soil, gravelly loam; 2nd rate.

Timber, aspen.

Undergrowth, sage deer and mahogany brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.80 chs.

Note: For reasons already explained

1 run

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	N.0° 02'W.,on a true line bet.secs.3 and 4.
	Over mountainous land;through dense undergrowth;descend .
5.00	Enter dense aspen sapplings and scattering pine timber, and leave sage and deer brush,bears E.and W..
26.75	Bottom of Pine Canon,250 ft.below sec.cor.,course N.W.; ascend.
26.85	Trail in Pine canon,bears N.W.and S.E.
27.00	Leave timber and aspen sapplings and enter dense sage deer and mahogany brush,bears N.W.and S.E.
40.00	Set a sandstone,24x9x7 ins.,18 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.
46.67	Intersect N.bdy.of Tp.,25.10 chs.N.89° 58'E.of the cor.of secs.3,4,33,and 34,heretofore described.
	Set a sandstone,18x9x6 ins.,12 ins.in the ground,for colsing cor.of secs.3 and 4,marked C.C.on S.,with 3 grooves on E.and 3 grooves on W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,S.of cor.Pits impracticable.
	Land,mountainous.
	Soil,gravelly loam;2nd rate.
	Timber,pine .
	Undergrowth,sage deer and mahogany brush and aspen sapplings.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,46.67 chs.
	Note:I destroy all marks on the cor.of secs.3,4,33, and 34,which pertain to secs.3 and 4.
	July 8,1902.

July 9,1902:At 7 h 2 m a.m.,l.m.t.,I set off 39° 38' N.,on the lat.arc;22° 28'N.,on the decl.arc;and de-

Chains	
-	termine a true meridian,with the solar,at the cor. of secs.4,5,32,and 33,on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0°03'W.,bet.secs.32 and 33.
	Over rolling mesa;through heavy timber.
40.00	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A pinion pine,8 ins.diam.,bears S.44°E.,40 lks.dist.;marked ¼ S.33;B.T.
	A cedar ,8 ins.diam.,bears S.70°W.,45 lks. dist.,marked ¼ S.32,B.T.
80.00	Set a sandstone,18x10x6 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 pinion pine,8 ins.diam.,bears N.74°E.,35 lks.dist.,marked T.13 S.,R.12 E.,S.28,B.T.
	A pinion pine,6 ins.diam.,bears S.39°E.,31 lks.dist.,marked T.13 S.,R.12 E.,S.33,B.T.
	A cedar,8 ins.diam.,bears S.67°W.,13 lks. dist.,marked T.13 S.,R.12 E.,S.32,B.T.
	A cedar,12 ins.diam.,bears N.35°W.,21 lks. dist.,marked T.13 S.,R.12 E.,S.29,B.T.
	Land,rolling mesa.
	Soil,clay;3rd rate.
	Timber,cedar and pinion pine.
	No grass.
	Heavily timbered land,80.00 chs.
	East,on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.27,28,33,and 34.
	Thence I run
	West,on a true line bet.secs.28 and 33.

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	Over mountainous land;through heavy timber;deseend .
8.00	Foot of descent,100 ft.below sec.cor.,bears N.and S.
	Enter bottom of broad canon.
	Leave heavy timber and enter scattering timber and dense undergrowth,bears N.and S.
40.00	Set a sandstone,18x10x8 ins.,12 ins.in the ground,for ¼ sec.cor.,marked ¼ on N.face;from which
	A cedar,14 ins.diam.,bears N.15°E.,67 lks. dist.,marked ¼ S.28,B.T.
	A cedar,10 ins.diam.,bears S.62°W.,180 lks. dist.,marked ¼ S.33,B.T.
43.10	Wash,55 lks.wide,10 ft.deep,from Spring canon,course S.
63.70	Wash,50 lks.wide,8 ft.deep,course S.
68.00	Leave canon bottom,bears N.and S.;ascend .
68.10	Leave undergrowth and enter heavy timber,bears N.and S.
70.00	Top of ascent,200 ft.above canon bottom,bears N.and S.;thence over rolling mesa.
80.00	The cor.of secs.28,29,32,and 33.
	Land mountainous and rolling.
	Soil,sandy and clay;3rd rate .
	Timber,cedar and pinion pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

	N.0°03'W.,bet.secs.28 and 29.
	Over rolling mesa;through heavy timber;
39.00	Leave mesa,bears N.10°E.and S.10°W.;descend along side of ridge .
40.00	Set a sandstone,24x8x6 ins.,18 ins.in the ground,for ¼ sec.cor.,marked ¼ on W.face;from which
	A pinion pine,8 ins.diam.,bears N.70°E.,84

Subdivision of T.13 S.,R.12 E.-Continued.

Chains	
	lks.dist.,marked ¼ S.28,B.T.
	A pinion pine,10 ins.diam.,bears N.20° W.,65 lks.dist.,marked ¼ S.29,B.T.
74.00	Bottom of hollow,175 ft.below mesa,course S.W.;ascend.
78.00	Top of spur,50 ft.above hollow,bears N.60° W.and S. 60° E.;descend. Leave timber,bears E.and W.
80.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for cor.of secs.20,21,28,and 29,marked with 2 notches on S.and 4 notches on E.edges;and raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.Pits impracticable.
	Land,mountainous.
	Soil,clay;3rd rate.
	Timber,cedar and pinion pine.
	No grass.
	Mountainous or heavily timbered land,80.00 chs.
	July 9,1902:At the noon hour the sky is overcast and solar observations are impossible.

	East,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line,22 lks.N.,of the cor.of secs. 21,22,27,and 28,
	Thence I run
	N.89° 51'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through scattering timber.
	Ascend.
18.00	Top of ridge 300 ft.above sec.cor.bears N.10°E.and S.10°W.
	Descend.
35.00	Bottom of hollow 300 ft.below ridge,course S.30°W.
	Ascend.
40.10	Set a sandstone 18x9x7 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.

Subdivision of T.13 S.R.12 E.-Continued.

Chains.	
42.00	Top of ridge 150 ft. above hollow bears N.10°W. and S.10°E.; descend.
50.00	Bottom of Spring Canon, 250 ft. below ridge, course S. 20°E. Ascend.
75.00	Top of divide ridge 500 ft. above canon, bears N. and S.; descend.
80.20	The cor. of secs. 20-21-28and 29.
	Land mountainous.
	Soil rocky, 4th. rate.
	Timber cedar and pinon pine.
	No grass.
	Mountainous land 80.20 chs.

	N.0°03'W. bet. secs. 20 and 21.
	Over mountainous land, through scattering timber, Descend.
18.00	Bottom of hollow, 150 ft. below sec. cor. course S.20°W. Ascend.
40.00	Top of divide ridge 250 ft. above hollow, bears N.30° W. and S.30°E.
	Set a sandstone 24x12x6 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
	Pits impracticable.
	Descend.
80.00	Set a sandstone 24x12x9 ins. 18 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked with 3 notches on S. and 4 notches on E. edges, from which
	A pinon pine 6 ins. diam. bears N.24°E. 17 lks. dist., lks. dist., marked T.13 S.R.12 E.S.16 B.T.
	A cedar 10 ins. diam. bears S.35°E. 45 lks. dist., marked T.13 S.R.12 E.S.21 B.T.
	A pinon pine 6 ins. diam. bears S.75°W. 65 lks. dist. marked T.13 S.R.12 E.S.20 B.T.

Subdivision of T.13 S.R.12 E.-CONTINUED.

CHAINS.	
	A pinon pine 9 ins.diam. bears N.15°W.45 lks.dist., marked T.13 S.R.12 E.S.17 B.T.
	Land,mountainous.
	Timber,cedar and pinon pine.
	Good grass.
	Soil gravelly and rocky 3rd.and 4th.rate.
	Mountainous land 80.00 chs.
	S.89°51'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 21 lks.S.of the cor.of secs. 15-16-21 and 22,Thence I run
	W.on true line bet.secs.16 and 21
	Over mountainous land,through scattering timber and scattering undergrowth;ascend.
10.16	Foot of perpendicular ledge 15 ft.high bears N.and S.
35.00	Top of ridge 500 ft.above sec.cor.bears N.30°E.and S.30°W.;descend.
40.05	Set a sandstone,24x10x7 ins.18 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.
50.00	Bottom of Spring Canon 400 ft.below ridge,course S.
	Ascend.
80.10	The cor.of secs.16-17-20 and 21.
	Land mountainous.
	Soil gravelly;3rd.rate.
	Timber pine and cedar.
	Undergrowth oak and service berry.
	Good grass for grazing.
	Mountainous land 80.10 chs.
	July 9,1902.

Subdivisions of T.13 S.R.12 E.-Continued.

CHAINS.	
	July 10,1902,at 7 h.2 m.A.M.l.m.t.I set off 39°41'N. on the lat.arc,22°21'N.on the decl.arc,and determine a true meridian with the solar at the cor.of secs.16-17-20 and 21;thence I run
	N.0°03'W.bet.secs.16 and 17
3.00	Over mountainous land;through scattering timber and dense undergrowth.
	Ascend.
8.00	Foot of perpendicular ledge 25 ft.high bears N.70° E.and S.70°W.
40.00	Set a sandstone 18x9x7 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on W.face;from which
	A pinon pine 9 ins.bears N.35°E.50 lks. dist.,marked $\frac{1}{4}$ S.16 B.T.
	A pinon pine 4 ins.diam.bears S.30°W.33 lks.dist.,marked $\frac{1}{4}$ S.17 B.T
43.00	Top of divide ridge 525 ft.above sec.cor.bears N. 30°E.and S.30°W.
	Descend.
55.00	Bottom of hollow 250 ft.below ridge course W.
	Ascend.
70.00	Top of ridge 150 ft.above hollow,bears E.and W.
	Descend.
80.00	Set a sandstone 18x10x8 ins.12 ins.in the ground for cor.of secs.8-9-16 and 17,marked with 4 notches on S.and 4 notches on E.edges,from which
	An aspen 6 ins.diam.bears N.65°E.145 lks. dist.,marked T.13 S.R.12 E.S.9 B.T.
	An aspen 5 ins.diam.bears S.89°E.140 lks. dist.,marked T13 S.R.12 E.S.16 B.T.
	No other trees within limits;raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly;3rd.rate.
	Timber cedar and pine.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains	
	Undergrowth sage and service berry.
	Good grass for grazing.
	Mountainous land or land covered with dense under-growth on 80.00 chs.
	E. on a random line bet. secs.9 and 16
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line 24 lks. S. of the cor. of secs. 9-10-15 and 16.
	Thence I run
	S.89°50'W. on a true line bet. secs.9 and 16
	Over mountainous land; through dense undergrowth.
	Descend.
12.00	Enter heavy aspen timber bears N. and S.
16.30	Bottom of Spring Canon, 200 ft. below sec. cor. cor., course S.30°W.
	A spring bears N.30°E. about 8 chs. dist.
	Ascend.
17.80	Trail bears N.30°E. and S.30°W.
18.00	Leave timber bears N.30°E. and S.30°W.
24.30	Top of ridge 75 ft. above canon, bears N.W. and S.E.
	Descend.
29.30	Enter timber bears N.60°W. and S.60°E.
30.30	Bottom of hollow 50 ft. below ridge course S.60°E.
	Ascend.
33.00	Leave timber bears N. and S.
39.95	Set a sandstone 18x10x5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
52.80	Top of divide ridge 300 ft. above hollow bears N.E. and S.W.
	Trail on top of ridge.
	Descend.
77.00	Enter scattering timber bears N. and S.

Subdivision of T.13 S.R.12 E.-Continued.

Chains.	
79.90	The cor. of secs.8-9-16 and 17.
	Land mountainous.
	Soil gravelly loam; 2nd. rate.
	Timber aspen.
	Undergrowth sage and service berry.
	Good grass for grazing.
	Mountainous or heavily timber, or land covered with dense undergrowth 79.90 chs.

N. 0°03' W. bet. secs. 8 and 9

Over mountainous land, through dense undergrowth and scattering timber.

Descend.

30.25 Bottom of hollow 200 ft. below sec. cor., course N. 80° W.

Ascend.

31.50 Top of spur, 50 ft. above hollow, bears N.E. and S.W.

Descend.

34.00 Bottom of hollow, 15 ft. below spur, course S.W.

Ascend.

40.00 Set a sandstone 20x10x5 ins. 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which

An aspen 6 ins. diam. bears S. 80°E. 100 lks. dist., marked $\frac{1}{4}$ S.9 B.T.

An aspen 6 ins. diam. bears S. 65°W. 170 lks. dist., marked $\frac{1}{4}$ S.8 B.T.

45.00 Foot of perpendicular ledge 10 ft. high bears E. and W.

48.00 Leave timber bears E. and W.

50.00 Top of ridge 125 ft. above hollow, bears N.E. and S.W.

Descend.

68.00 Enter heavy timber, bears E. and W.

76.00 Leave timber, bears E. and W.

78.00 Enter scattering timber, bears E. and W.

80.00 Set a sandstone 18x10x7 ins. 12 ins. in the ground

Chains. for cor. of secs. 4-5-8 and 9, marked with 5 notches on S. and 4 notches on E. edges, from which

A red pine 6 ins. diam. bears S.38°E.90 lks. dist., marked T.13 S.R.12 E.S.9 B.T.

A red pine 7 ins. diam. bears S.10°W.120 lks. dist., marked T.13 S.R.12 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 mountainous.

Soil gravelly; 3rd. rate.

Timber pine and aspen.

Undergrowth sage and service berry.

Good grass for grazing.

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

July 10, 1902, at this cor. I set off 22°18'N. on the decl. arc, and at 0 h. 2 m. P.M. l. m. t. observe the sun on the meridian, the resulting lat. is 39°42'N.

N.89°50'E. on a random line bet. secs. 4 and 9

40.00 Set temp. ½ sec. cor.

80.10 Intersect N. and S. line at 21 lks. N. of cor. of secs. 3-4-9and 10. Thence I run

S.89°59'W. on true line bet. secs. 4 and 9

Over mountainous land, through dense undergrowth,

Ascend.

6.50 Top of spur 40 ft. above sec. cor. bears N. and S.

Descend.

14.00 Bottom of hollow 100 ft. below ridge, course N.

Ascend.

20.50 Top of ridge 100 ft. above hollow, bears N. and S.

31.50 A small spring on line, course N.

34.50 Bottom of hollow, 250 ft. below ridge, course N.E.

Creek 1 lk. wide 1 in. deep, in bottom.

Ascend.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
40.05	Set a sandstone 20x12x5 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.
46.00	Top of ridge 200 ft. above hollow, bears N.E. and S.W.
	Descend.
62.00	The bottom of hollow 200 ft. below ridge course N.E. Ascend.
72.00	Top of ridge, bears N. and S.; descend.
80.10	Cor of secs. 4-5-8 and 9.
	Land mountainous.
	Soil gravelly loam; 2nd. rate.
	No timber.
	Undergrowth sage and service berry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.10 chs.

	For reasons already explained, I run
	N. 0° 03' W. on true line bet. secs. 4 and 5
	Over mountainous land, through dense undergrowth.
	Descend.
30.00	Bottom of Pine Canon, 250 ft. below sec. cor., course W.; ascend.
32.00	Trail bears E. and W. Enter timber bears E. and W.
40.00	Set a sandstone 18x8x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, from which
	A pinon pine 24 ins. diam. bears N. 85° E. 33 lks. dist., marked ¼ S. 4 B.T.
	A pinon 16 ins. diam. bears S. 65° W. 68 lks. dist., marked ¼ S. 5 B.T.
46.47	Intersect N. bdy. of Tp. 25.05 chs. E. of the cor. of secs. 4-5-32 and 33, heretofore described.
	Set a blue limestone 30x12x12 ins. 22 ins. in the ground for closing corner for secs. 4 and 5, marked C.C. on S., with 4 grooves on E. and 2 grooves on W.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.

faces, and raised a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable.

Land mountainous.

Soil gravelly loam; 2nd. rate.

Timber pine and aspen.

Undergrowth sage and service berry.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth 40.47 chs.

July 10, 1902.

July 11, 1902, at 7 h. 2 m. A.M. l.m.t. I set off 39°38' N. on the lat. arc, 22°13' N. on the decl. arc and determine a true Meridian with the solar at the cor. of secs. 5-6-31 and 32, on the S. bdy. of the Tp., heretofore described. Thence I run

N. 0°03' W. bet. secs. 31 and 32

Over mountainous land; through heavy timber.

Descend.

1.00 Bottom of hollow 10 ft. below sec. cor. course N. 70° W.

Ascend.

13.00 Top of ridge 150 ft. above hollow bears E. and W.

Descend.

22.50 Bottom of hollow 100 ft. below ridge, course S. 50° W.

Ascend.

40.00 Set a sandstone 16x8x5 ins. 11 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which

A pinon pine 10 ins. diam. bears N. 81° E. 49 lks. dist., marked ¼ S. 32 B.T.

A pinon pine 10 ins. diam. bears N. 74° W. 50 lks. dist., marked ¼ S. 31 B.T.

40.04 Set a limestone 16x8x6 ins. 11 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked with 1 notch on E. and 6 notches on S. edges, from which

Subdivisions of T.13 S.R.12 E.-Continued.

Chains	
	A pinon pine 8 ins. diam. bears N.22°E.46 lks. dist., marked T.13S.R.12 E.S.29 B.T.
	A pinon pine 6 ins. diam. bears S.13°E.53 lks. dist., marked T.13 S.R.12 E.S.32 B.T.
	A pinon pine 7 ins. bears S.14°W.45 lks. lks. dist., marked T.13 S.R.12 E.S.31 B.T.
	A pinon pine 8 ins. diam. bears N.47°W.80 lks. dist., marked T.13 S.R.12 E.S.30 B.T.
	Land mountainous.
	Soil clay; 3rd. rate.
	Timber cedar and pinon pine.
	No grass.
	Mountainous, or heavily timbered land 80.00 chs.

	E. on a random line bet. secs. 29 and 32
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 28-29-32 and 33, Thence I run
	W. on a true line bet. secs. 29 and 32
	Over rolling mesa, through heavy timber.
11.50	Leave mesa, bears N.20°E. and S.20°W.
	Descend.
30.00	Leave heavy and enter scattering timber, bears N.20° E. and S.20°W.
32.00	Foot of descent 200 ft. below mesa, bears N.20°E. and S.20°W.
	Enter bottom of broad canon.
	Enter dense undergrowth.
40.00	Set a sandstone 22x10x6 ins. 16 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.
	Pits impracticable.
42.00	Wash 30 lks. wide, course S.20°W. This wash is from Fish Canon.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
47.75	Wash 25 lks. wide course S.
68.50	Leave canon bottom; bears N. 20° W. and S. 20° E.
	Ascend.
69.00	Enter heavy timber, bears N. 20° W. and S. 20° E.
80.00	The cor. of secs. 29-30-31 and 32.
	Land mountainous and rolling mesa.
	Soil clay; 3rd. rate.
	Timber cedar and pinon pine.
	No grass.
	Undergrowth sagebrush.
	Mountainous, or heavily timbered land, or land covered with dense undergrowth 80.00 chs.

W. on a random line bet. secs. 30 and 31

40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.20	Intersect W. bdy. of Tp. 24 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.
	Thence I run
	S. 89° 50' E. on a true line bet. secs. 30 and 31
	Over level land, through dense undergrowth.
7.50	Wagon road from Vernal to Sunnyside, bears N. 20° W. and S. 20° E.
8.00	Pole fence, bears N. 20° W. and S. 20° E.
10.15	Enter corn field, bears N. 30° W. and S. 30° E.
13.00	Leave corn field, bears N. 30° E. and S. 30° W.
14.50	Wash 60 lks. wide 15 ft. deep, from Soldier Canon, course S. E.
17.00	Enter corn field, bears N. W. and S. E.
24.80	Leave corn field bears N. W. and S. E.
25.93	Wire fence bears N. W. and S. E.
	Cultivated land belongs to Charles Hall.
27.00	Begin ascent of mountain bears N. W. and S. E.
	Leave undergrowth and enter heavy timber.
35.25	Top of ridge 200 ft. above sec. cor. bears N. 30° W. and S. 30° E.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
39.20	Set a sandstone 40x16x14 ins. 30 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which A pinon pine 12 ins. diam. bears N. 35° E. 34 lks. dist., marked ¼ S. 30 B.T. A pinon pine 10 ins. diam. bears S. 42° W. 45 lks. dist., marked ¼ S. 31 B.T.
44.25	Bottom of hollow 100 ft. below ridge, course S. 20° W. Ascend.
50.00	Top of ridge 75 ft. above hollow, bears N. 30° E. and S. 30° W.; descend.
53.70	Bottom of hollow 50 ft. below ridge, course S. 40° W. Ascend.
75.00	Top of ridge 100 ft. above hollow, bears N. 20° E. and S. 20° W.; descend.
79.20	Cor. of secs. 29-30-31 and 32. Land mountainous and level. Soil clay; 3rd. rate. Timber cedar and pinon pine. Undergrowth sagebrush. No grass. Mountainous or heavily timbered land, or land covered with dense undergrowth 79.20 chs. July 11, 1902. At noon near sky is overcast and solar observation is impossible.

N. 0° 03' W. bet. secs. 29 and 30

Over mountainous land, through heavy timber.

Ascend.

23.00	Top of ridge 100 ft. above cor., bears E. and W. Descend.
32.00	Foot of descent, 200 ft. below ridge, bears E. and W. Thence over rolling mesa.
33.40	Trail bears E. and W.
40.00	Set a sandstone 18x14x6 ins. 12 ins. in the ground, for ¼ sec. cor., marked ¼ on W. face, from which

Chains.

A cedar 6 ins. diam. bears N.63°E. 22 lks. dist., marked ¼ S.29 B.T.

A cedar 8 ins. diam. bears N.60°W. 23 lks. dist., marked ¼ S.30 B.T.

78.50 Wash 60 lks. wide 20 ft. deep, course S.40°W.

80.00 Falls on stationary boulder 24x18x18 ins. above ground, on which I cut a cross (X) at the exact cor. point for cor of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, from which

A pinon pine 12 ins. diam. bears N.18°E. 18 lks. dist., marked T.13 S.R.12 E.S.20 B.T.

A pinon pine 12 ins. diam. bears S.50°E. 23 lks. dist., marked T.13 S.R.12 E.S.29 B.T.

A pinon pine 5 ins. diam. bears S.85°W. 15 lks. dist., marked T.13 S.R.12 E.S.30 B.T.

A cedar 8 ins. diam. bears N.57°W. 46 lks. dist., marked T.13 S.R.12 E.S.19 B.T.

Land mountainous and rolling mesa.

Soil clay and rocky; 3rd. and 4th. rates.

Timber cedar and pinon pine.

No grass.

Mountainous or heavily timbered land 80.00 chs.

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

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line at cor. of secs. 20-21-28 and 29. Thence I run

W. on a true line bet. secs. 20 and 29

Over mountainous land, through dense undergrowth.

Descend.

5.00 Bottom of Fish Canon 100 ft. below sec. cor., course S.30°W.; ascend.

20.00 Top of ascent 600 ft. above canon, bears N. and S.

Enter heavy timber, bears N. and S.

Thence over rolling mesa.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains	
33.00	Wash 50 lks. wide, 50 ft. deep, course S.
39.00	Wash 50 lks. wide 10 ft. deep, course S.
40.02	Set a sandstone 20x10x10 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon pine 9 ins. diam. bears N. 40°E. 30 lks. dist., marked ¼ S. 20 B.T.
	A pinon pine 10 ins. diam. bears S. 50°W. 12 lks. dist., marked ¼ S. 29 B.T.
60.75	Wash 50 lks. wide 10 ft. deep, course S.
70.55	Wash 50 lks. wide, 10 ft. deep, course S.
79.25	Center of wash 50 lks. wide, 10 ft. deep, course S. 30° W.
80.04	The cor. of secs. 19-20-29 and 30.
	Land mountainous and rolling mesa.
	Soil clay and rocky; 3rd. and 4th. rates.
	Timber cedar and pinon pine.
	Undergrowth sagebrush.
	No grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth 80.04 chs.

N. 89°50'W. on a random line bet. secs. 19 and 30

40.00	Set temp. ¼ sec. cor.
79.70	Intersect W. bdy. of Tp. 24 lks. S. of cor. of secs. 19-24.25 and 30, heretofore described.
	Thence I run
	S. 89°40'E. on a true line bet. secs. 19 and 30
	Over level land, through dense undergrowth, and scattering timber.
	From this corner Charles Hall's house bears S. 30°E. about 5 chs. dist.
00.25	Price-Vernal Road, bears N. 20°E. and S. 20°W.
00.50	Wellington-Vernal Road, bears N. 20°W. and S. 20°E.
6.25	Price-DuChesne telephone line bears N. and S.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains	
8.25	Wash 50 lks. wide 20 ft. deep, from Soldier Canon, course S.
	Begin ascent bears N. and S.
9.00	Top of ascent 50 ft. above wash, bears N. and S.
	Enter heavy timber, bears N. and S.
	Thence over rolling mesa.
39.70	Wash 40 lks. wide, course S.
	Set a sandstone 24x10x5 ins. 18 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, from which
	A cedar 6 ins. diam. bears S. 25° E. 48 lks. dist., marked $\frac{1}{4}$ S. 30 B.T.
	A pinon pine 4 ins. diam., bears N. 70° W. 32 lks. dist., marked $\frac{1}{4}$ S. 19 B.T.
79.70	The cor. of secs. 19-20-29 and 30.
	Land mountainous and level.
	Soil clay; 3rd. rate.
	Timber cedar and pinon pine.
	Undergrowth sagebrush.
	No grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth on 79.70 chs.
	July 11, 1902.

July 12, 1902, at 7 h. 3 m. A.M. l.m.t. I set off 39° 40' N. on the lat. arc, and 22° 05' N. on the decl. arc, and determine a true meridian with the solar at the cor. of secs. 19-20-29 and 30. Thence I run

N. 0° 03' W. bet. secs. 19 and 20.

Over rolling mesa, through heavy timber.

15.00	Leave mesa, bears E. and W.
	Ascend mountain.
40.00	Set a sandstone 18x10x5 ins. 12 ins. in the ground for $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on W. face, and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.	
50.00	Top of ridge 1200 ft. above sec. cor., bears N.80°E. and S.80°W.
	Descend.
55.00	Bottom of hollow 200 ft. below ridge, course W.
	Ascend.
66.25	Top of ridge 100 ft. above hollow, bears E. and W.
	Descend.
80.00	Set a sandstone 16x11x4 ins. 11 ins. in the ground for cor. of secs. 17-18-19 and 20, marked with 3 notches on S. and 5 notches on E. edges, from which
	A red pine 18 ins. diam. bears N.50°E. 60 lks. dist., marked T.13 S.R.12 E.S.17 B.T.
	No other trees within limits, raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land mountainous and rolling mesa.
	Soil clay and rocky; 3rd. and 4th. rates.
	Timber cedar and pine.
	Very little grass.
	Mountainous or heavily timbered land on 80.00 chs.

E. on a random line bet. secs. 17 and 20

40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line 7 lks. N. of the cor. of secs. 16-17-20 and 21. Thence I run
	N.89°57'W. on a true line bet. secs. 17 and 20
	Over mountainous land, through scattering timber and dense undergrowth.
	Ascend.
6.00	Top of divide ridge, 200 ft. above sec. cor., bears N. and S.
	Descend.
25.00	Bottom of Fish Canon, 500 ft. below ridge course S.; ascend.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains	
38.75	Top of divide ridge between Fish and Soldier Canons 600 ft. above canon, bears N. and S.
	Descend.
40.04	Set a sandstone 18x12x4 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.
59.80	Bottom of hollow 500 ft. below ridge, course N.
	Ascend.
68.00	Top of ridge 100 ft. above hollow, bears N. and S.
	Descend.
73.25	Bottom of hollow 100 ft. below ridge, course N.
	Ascend.
80.08	The cor. of secs. 17-18-19 and 20.
	Land mountainous.
	Soil gravelly 3rd. rate.
	Timber cedar and pinon pine.
	Undergrowth sage and service berry.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.08 chs.

Note:-Knowing from retracement of the W. bdy. of this Tp., that the line bet. secs. 18 and 19. will not intersect the W. bdy. within limits, I run

W. on a true line bet. secs. 18 and 19

Over mountainous land, through scattering timber and dense undergrowth.

Ascend.

35.00	Top of ridge 300 ft. above sec. cor. bears N. 80° W. and S. 80° E.
	Descend.
40.00	Set a sandstone 20x12x5 ins. 15 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which

A red pine 4 ins. diam. bears N. 05° W. 26 lks.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.	
	dist.marked ¼ S.18 B.T.
	A pinon pine 6 ins.diam.bears S.11°W.24 lks.dist.,marked ½ S.19 B.T.
67.00	Price-DuChesne telephone line bears N.and S.
68.50	Bottom of Soldier Canon,600 ft.below ridge,course S.
70.66	Price-Vernal Road bears N.and S.
80.86	Intersect W.bdy.of Tp.85 lks.S.0°45'E.of the cor.of secs.13-18-19 and 24,heretofore described.
	Set a sandstone 20x10x5 ins.15 ins.in the ground, for closing cor.of secs.18 and 19,marked C.C.on E. with 3 grooves on N.and 3 grooves on S.faces,and raise a mound of stone 2 ft.base 1½ ft.high E.of cor.Pits impracticable.
	Note:-I destroy all marks on cor.of secs.13-18-19 and 24,which pertain to secs.18 and 19.
	Land mountainous.
	Soil gravelly and rocky;3rd.and 4th.rates.
	Timber cedar and pinon pine.
	Undergrowth sage and mahogany.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth-80.86 chs.
	July 12,1902,at this cor.I set off 22°02'N.on the decl.arc and at 0 h.2 m.P.M.l.m.t.observe the sun on the meridian,the resulting lat.is 39°41'N.

From the cor.of secs.17-18-19 and 20,I run

N.0°03'W.bet.secs.17 and 18

Over mountainous land,through dense undergrowth and scattering timber;descend.

18.50	Bottom of hollow 300 ft.below sec.cor.course S.80°W. Ascend.
40.00	Set a limestone 18x10x8 ins.12 ins.in the ground for ¼ sec.cor.,marked ½ on W.face,from which

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.	
	A cedar 7 ins.diam.bears N.70°E.70 lks. dist., marked ½ S.17 B.T.
	A cedar 6 ins.diam.bears S.45°W.56 lks. dist., marked ½ S.18 B.T.
42.15	Foot of perpendicular ledge 60 ft.high, bears N.E. and S.65°W.
42.25	Top of ridge 500 ft.above hollow, bears N.E.and S. 65°W.
	Descend.
52.00	Bottom of hollow 150 ft.below ridge course N.W.
	Ascend.
60.00	Top of ridge 125 ft.above hollow, bears E.and W.
	Descend.
80.00	Set a sandstone 18x10x9 ins.12 ins.in the ground for cor.of secs.7-8-17 and 18, marked with 4 notches on S.and 5 notches on E.edges, and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil gravelly; 3rd.rate.
	Timber cedar and pinon pine.
	Undergrowth sage and mahogany.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.00 chs.

S.89°57'E. on a random line bet.secs.8 and 17

40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line 17 lks.N.of cor.of secs.9-10-15 and 16.Thence I run

N.89°50'W. on a true line bet.secs.8 and 17

	Over mountainous land, through dense undergrowth.
	Ascend.
11.30	Top of ridge 100 ft.above sec.cor., bears N.W.and S.E.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.	
22.50	Bottom of hollow 100 ft. below ridge, course S.
25.00	Top of ridge, 100 ft. above hollow, bears N.80°E. and S.80°W.
	Trail on top of ridge.
	Descend.
40.00	Set a sandstone 24x12x8 ins. 18 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.
64.50	Bottom of hollow 350 ft. below ridge, course N.W.
	Ascend.
70.00	Drag road bears N.W. and S.E.
77.50	Ridge 350 ft. above canon, bears N.20°W. and S.20°E.
	Descend.
79.90	Top of perpendicular ledge 25 ft. high bears N. and S.
80.00	The cor. of secs. 7-8-17 and 18.
	Land mountainous.
	Soil gravelly; 3rd. rate.
	No timber.
	Undergrowth sage and mahogany.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth on 80.00 chs.

	For reasons already explained I run,
	W. on a true line bet. secs. 7 and 18
	Over mountainous land, through dense undergrowth and scattering timber.
	Descend.
19.00	Foot of descent, 300 ft. below sec. cor., bears N.E. and S.W.
	Enter bottom of Soldier Canon.
22.10	Creek 3 lks. wide 2 ins. deep, in canon, course S.10°W.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains

22.25 Price -DuChesne telephone line,N.and S.

22.70 Price-Vernal Road bears N.10°E.and S.10°W.

26.30 Foot of perpendicular ledge,10 ft.high.bears N.10° E.and S.10°W.A coal tunnel bears N.about 4.00 chs.dist. Leave canon bottom.

Ascend.

31.20 Foot of perpendicular ledge 10 ft.high bears N.and S.

32.25 Top of ridge 200 ft.above canon,bears N.35°W.and S. 35°E. Mary Martison's house bears S.17°E.20.00 chs.dist.

40.00 Set a sandstone 18x12x6 ins.12 ins.in the ground for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ on N.face,and raised a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N.of cor.

Pits impracticable.

44.00 Bottom of hollow,110 ft.below ridge,course S.60°E.

Ascend.

76.00 Top of ridge 300 ft.above hollow,bears N.25°E.and S.25°W.;descend.

82.24 Intersect W.bdy.of Tp.1.65 chs.S.0°50'E.of cor.of secs.7-12-13 and 18,heretofore described.

Set a sandstone 18x10x6 ins.12 ins.in the ground, for closing corner of secs.7 and 18,marked C.C.on E.,with 2 grooves on N.and 4 grooves on S.faces, from which

A long leafed pine 16 ins.diam.bears N. 42°E.51 lks.dist.,marked T.13 S.R.12 E. S.7 B.T.

A long leafed pine 8 ins.diam.bears S.75° E.62 lks.dist.,marked T.13 S.R 12 E.S.18 B.T.

Note:- I destroy all marks from the cor.of secs.7-12-13 and 18,which pertain to secs.7 and 18.

Land mountainous.

Soil gravelly and rocky;3rd.and 4th.rate.

Timber cedar and pine.

Undergrowth sage,mahogany and service berry.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 82.24 chs.
	July 12, 1902.
	July 13, 1902, at 7 h. 3 m. A.M. l.m.t. I set off 39° 42' N. on the lat. arc, 21° 57' N. on the decl. arc, and determine a true meridian with the solar, at the cor. of secs. 7-8-17 and 18. Thence I run
	N. 0° 03' W. bet. secs. 7 and 8
	Over mountainous land, through scattering timber and dense undergrowth.
	Ascend.
5.00	Leave timber bears N.E. and S.W.
9.00	Top of spur 100 ft. above sec. cor., bears N.W. and S.E.
	Descend.
20.50	Bottom of hollow 350 ft. below ridge, course N. 70° W.
	Ascend.
30.00	Top of spur, 200 ft. above hollow, bears N. 60° E. and S. 60° W.
	Descend.
40.00	Set a sandstone 22x13x5 ins. 16 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
	Pits impracticable.
	From this cor. Soldier Station bears N. 20° W. about 10.00 chs. dist.
47.00	Bottom of hollow 100 ft. below ridge, course W.
	Ascend.
78.00	Top of spur 100 ft. above hollow bears E. and W.
	Descend.
80.00	Set a sandstone 26x10x6 ins. 19 ins. in the ground for cor. of secs. 5-8-7 and 8, marked with 5 notches on S. and 5 notches on E. edges, from which
	A pine 18 ins. diam. bears N. 60° E. 76 lks.

Subdivisions of T.13 S.R.12 E.-Continued.

Chains.	
	dist., marked T.13 S.R.12 E.S.5 B.T.
	A pine 7 ins. diam. bears S.29°E.200 lks. dist., marked T.13 S.R.12 E.S.8 B.T.
	A pine 12 ins. diam. bears S.13°W.180 lks. dist., marked T.13 S.R.12 E.S.7 B.T.
	A cottonwood tree 12 ins. diam. bears N.69° W.37 lks. dist., marked T.13 S.R.12 E.S.C B.T.
	Land mountainous.
	Soil gravelly and rocky 3rd. and 4th. rates.
	Timber pine, cedar and aspen.
	Undergrowth sage and mahogany.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.00 chs.

	S.89°50'E. on a random line bet. secs.5 and 8
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at the cor. of secs. 4-5-8 and 9. Thence I run
	N.89°50'W. on a true line bet. secs.5 and 8
	Over mountainous land, through dense undergrowth. Descend.
8.00	Enter timber bears N. and S.
11.50	Bottom of hollow 150 ft. below sec. cor, course N. Ascend.
40.00	Set a sandstone 18x8x5 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	An aspen 4 ins. diam. bears N.20°E.25 lks. dist., marked ¼ S.5 B.T.
	An aspen 4 ins. diam. bears S.39°W.22 lks. dist., marked ¼ S.8 B.T.
55.00	Top of ridge 150 ft. above hollow, bears N.W. and S.E. Descend.
62.00	Bottom of hollow 150 ft. below ridge, course N.60°W.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
68.50	Ascend. Top of ridge, 50 ft. above hollow, bears N. 60°W. and S. 60°E.
	Descend.
80.00	The cor. of secs. 5-6-7 and 8.
	Land mountainous.
	Soil gravelly; 3rd. rate.
	Timber pine and cedar, and aspen.
	Undergrowth oak and mahogany.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.

Note:- For reasons already explained, I run W. on a true line bet. secs. 6 and 7 Over mountainous land, through scattering timber and dense undergrowth.

	Descend.
1.05	Creek 4 lks. wide 2 ins. deep, in bottom of Soldier Canon, course S. 10°W.
	Ascend.
1.65	Price-Vernal Road, bears N. 10°E. and S. 10°W.
2.00	Price-DuChesne telephone line bears N. and S.
23.25	Foot of perpendicular ledge 10 ft. high, bears N. 80°E. and S. 80°W.
24.50	Top of ridge 300 ft. above canon, bears N.W. and S.E.
	Descend.
33.00	Bottom of hollow 75 ft. below ridge, course S.
	Ascend.
40.00	Set a sandstone 18x14x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pinon pine 14 ins. diam. bears N. 60°W. 45 lks. dist., marked ¼ S.C B.T.
	A pinon pine 6 ins. diam. bears S. 80°E. 30 lks. dist., marked ¼ S.7 B.T.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
60.00	Leave timber bears N. and S.
67.75	Top of divide ridge, 400 ft. above hollow, bears N. 30° E. and S. 30° W.
	Descend.
83.70	Intersect W. bdy. of Tp. 4. 87 chs. S. 0° 56' E. of cor. of secs. 1-6-7 and 12, heretofore described.
	Set a sandstone 22x10x4 ins. 16 ins. in the ground, for closing corner of secs. 6 and 7, marked C. C. on E. with 1 groove on N. and 5 grooves on S. faces, and raised a mound of stone 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable.
	Note:-I destroy all marks from the cor. of secs. 1-6-7 and 12, which pertain to secs. 6 and 7.
	Land mountainous.
	Soil gravelly; 3rd. rate.
	Timber pine, cedar and aspen.
	Undergrowth sage and mahogany.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 83.70 chs.
	July 13, 1902. At this cor. I set off 21° 54' N. on the decl. arc, and at 0 h. 2 m. P. M. l. m. t. observe the sun on the meridian, the resulting lat. is 39° 42' N.

Note:- For reasons already explained, I run N. 0° 03' W. on a true line bet. secs. 5 and 6.

Over mountainous land, through dense undergrowth and scattering timber.

Descend.

4.00	Creek 5 lks. wide, 2 ins. deep, in bottom of Soldier Canon, 25 ft. below sec. cor., course S. 20° W.
	Ascend.
5.00	Leave timber bears N. 15° E. and S. 15° W.

Subdivisions of T. 13 S. R. 12 E.-Continued.

Chains.	
6.00	Top of spur 15 ft. above canon, bears E. and W.
	Descend.
9.00	Creek 5 lks. wide 2 ins. deep, in Soldier Canon, 10 ft. below spur, course S. 25° E.
	Ascend.
11.00	Top of spur 20 ft. above creek, bears E. and W.
	Descend.
13.50	Creek 4 lks. wide 1 ins. deep, in bottom of Soldier Canon, 15 ft. below spur, course S. 25° W.
	Ascend.
16.00	Price-Vernal Road bears N. 15° E. and S. 15° W.
16.00	Price-Duchesne telephone line, bears N. 15° E. and S. 15° W.
33.50	Top of spur, 100 ft. above canon, bears E. and W.
	Descend.
40.00	Set a sandstone 18x10x5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, from which
	A pinon pine 23 ins. diam. bears S. 22° E. 111 lks. dist., marked $\frac{1}{4}$ S. 5 B. T.
	A pinon pine 15 ins. diam. bears S. 38° W. 173 lks. dist., marked $\frac{1}{4}$ S. 6 B. T.
45.10	Intersect N. bdy. of Tp. 23.72 chs. N. 89° 03' W. of cor. of secs. 5-6-31 and 32, heretofore described.
	Set a sandstone 18x10x5 ins. 12 ins. in the ground, for closing corner of secs. 5 and 6, marked C. C. on S. with 5 grooves on E. and 1 groove on W. faces, and raised a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable.
	Note:-I destroy all marks from the cor. of secs. 5-6-31 and 32, which pertain to secs. 5 and 6.
	Land mountainous.
	Soil gravelly; 3rd. rate.
	Timber pine.
	Undergrowth sage, and mahogany.
	Good grass for grazing.
	Mountainous land, or land covered with dense under-

growth, on 45.10 chs.

July 13,1902.

G-E-N-E-R-A-L D-E-S-C-R-I-P-T-I-O-N.

.....ooo.....

This township is very rough in the western and central parts,more rolling in the northeast corner and mostly rolling mesa in the southern part.And the soil ranges from clay and gravelly to rocky ground. The soil in the southern part of the township is sandy and gravelly;3rd rate,in the central and western it is mostly rocky and gravelly;4th rate,and in the northeast corner it is generally sandy or gravel--ly,2nd rate.

There is considerable scrub cedar and pinion pine timber in the south half of the township and some scattering pine and aspen in the north half.

The township is not well watered.There is some water in Soldier Canon(rises and sinks,not a running stream),which contains a strong alkaline solution. The spring in Dug Out Canon ;in sec.14;not seen from line,is good water.Also the spring in sec.9 is good water.

There are out croppings of coal in sections 25,23, 21,7,and 18.In my oponion the indications of coal in theteast half of sec.25,the north half of sec.23, the north west ¼ of sec.21,the north half of sec.18, and in the southeast ¼ of sec.7,justify classing it as coal land.

Thomas Jinkins has a coal claim in sec.23,where he has a house and has begun à tunnel,not seen from line.

Mrs.J.J.Gilson has a coal claim and tunnel in sec. 21,not seen from line.

Mary Martison has a coal claim is secs.7 and 18;

Subdivision of T.13 S., R 12 E

has a house and has commenced several tunnels, shown on plat but not seen from line.

Mr. Charles Hall has house in sec.30 and cultivated land in sections 30 and 31.

Soldier station in sec.7 is used as a temporary residence for those having Government forage contracts.

There is considerable grass in the north half of the township but not much in the south half.

There is no mineral excepting coal in the township.

I did not find Hank Stewart or W.H.Morgan, applicants for survey, nor any of their improvements.

John R. Stewart.
U.S. Deputy Surveyor.

BLANK

PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

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

_____

showing the respective capacities in which they acted:

_____, *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—181

BOOK

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 Oath see field notes (handwritten across form)

....
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, Jany 18 1904, 189

The foregoing field notes of the survey of the subdivisional lines of Township 13 South Range 12 East of the Salt Lake Base & Meridian, Utah

executed by John R. Stewart under his contract No. 250, dated January 2, 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.

6-151