

Volume

#

R0286

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Township 36 S., Range 16 W.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WEand
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 }



WEand
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 }



WEand
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 }



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 }



BOOK A-286

INDEX DIAGRAM.

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Meanders Page.....

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....., Chainman.

....., Chainman.

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



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 }



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 }



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 }



BOOK A-286

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

....., Chainman
....., Chainman

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



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 }



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 }



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 }



INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 189 _____ }



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 _____ }



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 _____ }



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 _____ }



NAMES AND DUTIES OF ASSISTANTS.

Max H. Handberg	Recorder
Edward J. Hegler	Recorder
Abel Valley	Recorder
David Dix	Recorder
Abel Valley	Recorder
David Dix	Recorder
William Macfarlane	Recorder

In preliminary affidavit, see book 22 p. 283, 1889.

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BOOK A-286

INDEX DIAGRAM.

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

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 189 _____ }



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 _____ }



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 _____ }



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 _____ }



Retracement of S.bdy. of T.36 S., R.16 W.

Chains.

Retracement commenced November 27, 1899, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see Notes of the Survey of S. bdy. of T. 42 S., R. 14 W., Book A.

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:

November 27, 1899: At the Meridian established from Polaris Observations November 6, and 7, 1899, at the cor. of Tps. 36 and 37 S., Rs. 16 and 17 W., heretodescribed, in approximate lat. $37^{\circ}37'$ N., longitude $113^{\circ}38'$ W.; and set off $37^{\circ}37'$ N. on the lat. arc; $21^{\circ}10'30''$ S. on the decl. arc; and, at 3^h48^m p.m., l.m.t., determine with the solar a true meridian, and mark a point thereof on the stone set November 6, 1899, 5.00 chs. N. of the cor.; this mark falls 0.25 ins. West of the True Meridian established by the Polaris observation.

November 27, 1899.

November 28, 1899: At 7^h48^m a.m., l.m.t., I set off $37^{\circ}37'$ N. on the lat. arc; $21^{\circ}17'$ S. on the decl. arc; and mark a point in the True Meridian determined with the solar, on the stone already set 5.00 chs. N. of my station; this mark falls about 0.35 ins. East of the True Meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for True Meridians respectively, about 0'15" West, and 0'18" East of the Meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The Magnetic bearing of the True Meridian at

Retracement of S.bdy.of T.36 S.,R.16 W.-Continued.

Chains. 8^h a.m., is N.16°27' W.; the angle thus determined reduced by the table, page 100, gives the mean mag. decl. 16°24' E., as heretofore determined.

Having previously retraced the W, bdy. of this Tp., and finding the same irregular in bearing and defective in measurements, I deem it advisable to test the courses and lengths of lines on the S. bdy. thereof before commencing the survey of subdivisions; therefore I begin at the cor. of Tps. 36 and 37 S., Rs. 16 and 17 W., heretofore described in Notes of Resurvey of E. bdy. of T. 36 S., R. 17 W., Book I

Thence I run S. 89°59' E. along the S. bdy. of the Tp., retracing line bet. secs. 6 and 31.

Over nearly level land covered with dense sage undergrowth.

39.22 Fall 9 lks. S. of the old 1/4 sec. cor., of which I find traces of old pits and mound. Set a volcanic stone 15x8x6 ins., 10 ins. in the ground for re-established 1/4 sec. cor., at the location of the of the original 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone, 3 ft. dist; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

46.20 Trail bears S. 70° E. and N. 70° W.

78.95 Fall 19 lks. S. of the old cor. of secs. 5, 6, 31 and 32, which is a yellow sandstone 10x7x4 ins. above ground, marked and witnessed as described by the Surveyor General; excepting that pits and mound are nearly obliterated. I dig pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

The course of this line is, therefore, N. 89°53' E.

Land nearly level, gently sloping N.

Soil, rich clay and sandy loams; 1st. rate.

No timber.

Dense sage undergrowth on 78.95 chs.

Note:- Cedar post about 4 ft. high, 6 ins. diam., marked IRON CO. on N. and W. CO., on S., set for County division line, along side of cor.

Retracement of S.bdy. of T.36 S., R.16 W. - Continued.

<p>Chains.</p> <p>17.80</p> <p>21.35</p> <p>25.40</p> <p>28.23</p> <p>36.26</p> <p>40.27</p> <p>58.35</p> <p>74.85</p> <p>80.95</p>	<p>From the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., already described, I run S., 89°59' E., retracing line bet. secs. 5 and 32. Over nearly level land, through dense sage undergrowth.</p> <p>A canal about 3 ft. wide and 1 1/2 ft. deep, now dry, drains N.W. about 15.00 chs. to location of State well to be bored as test in search of artesian water.</p> <p>Leave dense sage undergrowth, bears N. and S.</p> <p>Trail bears S. 50° E. and N. 50° W.</p> <p>Road from Enterprise to Holt's field bears S. 40° W., and N. 40° E.</p> <p>Re-enter dense sage undergrowth, bears S. 25° E. and N. 25° W.</p> <p>Fall 6 lks. S. of the old 1/4 sec. cor., which is a yellow sandstone 10x6x4 ins. above ground, properly marked with pits and mound obliterated; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. The course of this line is, therefore, N. 89°56' E.</p> <p>Trail bears S. 80° E. and N. 80° W.</p> <p>Wash 10 lks. wide and 4 ft. deep, drains N. 25° W.</p> <p>Fall 37 lks. S. of the old cor. of secs. 4, 5, 32 and 33, which is a yellow sandstone 10x10x5 ins., above ground, properly marked, with pits and mound obliterated; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is therefore, N. 89°45' E. on bet. the sec. cors.; and N. 89°35' E. on the last 1/2 mile. and the distance on last 1/2 mile 40.68 chs. Land nearly level, slightly rolling on E. 1/2 mile. Soil, rich clay and sandy loams, slightly intermixed with gravel. on E. 1/2 mile; 1st. and 2nd. rate. No timber. Dense sage undergrowth on 66.00 chs.</p>	
<p>.00</p>	<p>From the cor. of secs. 4, 5, 32 and 33 above described, I run S. 89°59' E., retracing line bet. secs. 4 and 33. Over nearly level ground; through dense sage undergrowth.</p>	

Retracement of S.bdy. of T.36 S., R.16 W.-Continued

Chains.

- .02 Cedar post about 4 ft. high, and 6 ins. diam., marked IRON CO., on N. and W. CO., on S.
- 2.05 Road from St. George to Modena, bears S.E. and N.W.
- 2.48 Trail bears S.E. and N.W.
- 10.90 Trail bears N.W. and S.E.
- 18.30 Trail bears N.W. and S.E.
- 36.06 Trail bears N. 30° W. and S. 30° E.
- 40.78 Fall 18 lks. S. of the old $1/4$ sec. cor., which is a yellow sandstone $10 \times 6 \times 6$ ins. above ground, properly marked, with pits and mound obliterated; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor. Course of line is, therefore, N. $89^{\circ} 48'$ E.
- 55.80 Trail bears N.W. and S.E.
- 57.90 Road from St. George to Modena, bears S. 40° E. and N. 40° W.
- 70.17 Trail bears S. 30° E. and N. 30° W.
- 70.40 Canal running from Holt's reservoir near Holt's Ranch, to farm on Desert, about 12 lks. wide and 5 ft. deep, drains N. 35° W. Canal now dry.
- 81.34 Trail bears S. 20° E. and N. 20° W.
- 82.18 Fall 5 lks. S. of the old cor. of secs. 3, 4, 33 and 34, which is a yellow sandstone $12 \times 10 \times 5$ ins. above ground, properly marked with witness points obliterated; dug pits $18 \times 18 \times 12$ ins., in each sec., $5 \frac{1}{2}$ ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The course of this line is, therefore, N. $89^{\circ} 48'$ E. bet. the sec. corners; the course on last $1/2$ mile is S. $89^{\circ} 48'$ E., and the distance 41.40 chs.
- Land nearly level, slightly rolling, with general course of drainage N.W.
- Soil, sandy and clay loams, with slight intermixture of gravel; 2nd. rate.
- No timber.
- Dense sage undergrowth on 82.18 chs.
- Note:-Cedar post about 4 ft. long, 6 ins. diam., marked IRON CO., on N. and W. CO., on S., the same being set for division post bet. Iron and Washington counties, along side of cor. stone.

Retracement of S.bdy.of T.36 S.,R.16 W.-Continued.

Chains.	From the cor.of secs.3,4,33 and 34,heretofore described,I run
	S.89°59' E.,retracing line bet.secs.3 and 34.
	Over slightly rolling land;through dense sage undergrowth.
8.22	Trail bears N.30° E.and S.30° W.
13.52	Mountain Meadow wash,45 lks.wide and 5 ft.deep,drains N.100° W.;Holts ranch houses bears S.about 1 mile.
18.09	Trail bears N.65° E.and S.65° W.
36.87	Trail bears N.50° E.and S.50° W.
40.97	Fall 10 lks.S.of the old 1/4 sec.cor.,which is a lava stone 12x12x4 ins.above ground,properly marked with pits and mound obliterated;dug pits 18x18x12 ins.E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor. Course of line is therefore,N.89°52' E.
43.92	Trail bears N.30° E.and S.30° W.;leave dense sage undergrowth and enterscattering sage,bears N.30° E. and S.30° W.
45.07	Wire fence on W.side of pasture enclosed and occupied by citizens of Pinto and Holts Ranch,bears N.30° E. and S.30° W.;ascend gradually over W.slope of bluff.
55.22	Trail bears S.75° W.and N.75° E.
78.37	Trail bears N.60° E.and S.60° W.
80.98	Fall 4 lks.N.of the old cor.of secs.2,3,34 and 35, which is a yellow sandstone 15x6x5 ins.above ground, properly marked,with pits and mound obliterated; dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.; and raised a mound of earth,4 ft.base,2 ft.high W. of cor.
	The course of this line is,therefore,S.89°57' E.,bet the sec.corners;and the course S.89° 47' E.on the last.1/2 mile.,and the distance 40.01 chs.
	Land slightly rolling,with general course of drainage North West.
	Soil clay and sandy loams,gravelly and stony;2nd.and 3rd.rate.
	No timber.
	Undergrowth shrubbery and grasses afford fair grazing.
	Dense sage undergrowth on 43.92 chs.
	November 28,1899:At this cor.of secs.2,3,34 and 35,

Retracement of S.bdy.of T.36 S.,R.16 W.-Continued.

Chains. I set off $21^{\circ}21'30''$ S.on the decl.arc;and,at 11h48^m
a.m.,l.m.t.,observe the sun on the meridian;the re-
sulting lat.is $37^{\circ}37'$ N.

From the cor.of secs.2,3,34 and 35,heretofore de-
scribed,I run
S.89^o59' E.,on blank line bet.secs.2 and 35;no sub-
divisional lines having been closed on the E.2 miles
of this bdy.

- 40.00 Find no trace of old 1/4 sec.cor,after diligent search.
81.53 Fall 18 lks.N.of the old cor.of secs.1,2,35 and 36.
I continue on same line bet.secs.1 and 36.
121.07 Fall 87 lks.N.of the old 1/4 sec.cor.
160.00 Intersect E.bdy.of Tp.(Pine Valley Guide Meridian),
56 lks.N.of the old cor.of Tps.36 and 37 S.,R.15 and
16 W.,which is a red quartzite stone 8x8x5.ins.above
ground,marked and witnessed as described by the Sur-
veyor General.

The course of the last two miles is therefore,S.89^o
47' E.

November 28,1899.

Mayhew H. Galley
U.S. Deputy Surveyor.

7 19

Resurvey of S. bdy. of T. 36 S., R. 16 W.

Chains. November 28, 1899: Having this day retraced the E. 2 miles of this S. bdy., and finding the same defective in courses and lengths of lines, and no subdivisional lines depending thereon, I resurvey the same as follows:-

At the cor. of Tps. 36 and 37 S., R. 15 and 16 W., on Pine Valley Guide Meridian, I set off $37^{\circ}37'$ N. on the lat. arc; $21^{\circ}22'$ S. on the decl. arc; and at $2^{\text{h}}48^{\text{m}}$ p.m., l.m. t., determine a true meridian with the solar.

Thence I run

N., $89^{\circ}47'$ W. on a true line bet. secs. 1 and 36 - this course determined by blank line previously run.

Descend over W. slope of high ridge; through dense cedar and nut pine timber.

28.00 Leave dense cedar and pines bears N. and S.; enter scattering cedars and pines.

38.50 W. foot of high mountain, about 275 ft. below the Tp., cor., bears N. 10° E. and S. 10° W.; thence over broken foot hills into valley, more gradually descending.

40.00 Set a trachyte stone $17 \times 10 \times 6$ ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; and raised a mound of stone, 2 ft. base, $1\ 1/2$ ft. high, N. of cor. Pits impracticable.

The old $1/4$ sec. cor. which is a trachyte stone $9 \times 4 \times 5$ ins. above ground, marked and witnessed as described by the Surveyor General, bears S. $67^{\circ}12'$ E., 116 lks. dist. I destroy all traces of this old $1/4$ sec. cor.

64.78 Wash 20 lks. wide and 5 ft. deep, drains N. 35° W.

80.00 Set a yellow sandstone $20 \times 12 \times 6$ ins., 15 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; and raised a mound of stone, 2 ft. base, $1\ 1/2$ ft. high, W. of cor.

Pits impracticable. This cor. is on W. slope of foot hills about 100 ft. below the foot of mountain.

The old cor. of secs. 1, 2, 35 and 36, a yellow sandstone $10 \times 7 \times 5$ ins. above ground, marked and witnessed as described by the Surveyor General, bears N. $86^{\circ}44'$ E., 154 lks. dist. I destroy all traces of this old sec. cor.

Land mountainous and broken foot hills.

Resurvey of S.bdy.of T.36 S.,R.16 W.-Continued.

Chains.	Soil, stony and gravelly; 4th. rate on E. 1/2 mile-3rd. rate on W. 1/2 mile. Timber, dense nut pine and cedars on E. 28.00 chs.; scattering cedars and pine on W. 52.00 chs. Undergrowth of sage with shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs.
17.26	N. 89° 47' W. on resurvey line bet. secs. 2 and 35. Descend over W. slope of foot hills. Old road bears N. and S.
26.76	A cedar post about 3 ft. above ground and 6 ins. diam., marked IRON CO., on N. and W. CO. on S., bears N. 69 lks. dist. dist. from line.
27.94	Road from Hebron, Enterprise and Holt's Ranch to the Castle and Cedar City, bears S. 55° W. and N. 55° E.
28.96	Trail bears N. 60° E. and S. 60° W.
40.00	Set a yellow sandstone 15x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. Find no trace of the old 1/4 sec. cor. after further diligent search.
52.26	Trail bears N.E. and S.W.
71.16	Wash 8 lks. wide and 4 ft. deep, drains NW; leave foot hills and descend over W. slope of bluff.
80.00	The old cor. of secs. 2, 3, 34 and 35, heretofore described in Notes of retracement of this bdy. Land broken foot hills and rolling bluff with general course of drainage to N.W. Soil, loamy, stony and gravelly; 2nd. and 3rd. rate. Timber, very few scattering cedars on E. 25.00 chs. Undergrowth, medium dense sage, with shrubbery and grasses afford good grazing. Mountainous land on 71.16 chs.

November 28, 1899.

Resurvey of S.bdy.of T.36 S.,R.16 W.-Continued.

Chains.

GENERAL DESCRIPTION.

For General Description see Notes of the Subdivisions of this Township.

November 28, 1899.

Mayhew H. Galley

U.S. Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley

....., United States Deputy Surveyor, to assist in running, measuring, and retracement marking the lines and corners described in the foregoing field notes of the survey of N. bdy. of T. 38 R. 16 W., and S. bdy. of T. 36 S., R. 17 W.; and retracement and resurvey of E. bdy. of T. 36 S., R. 17 W., and S. bdy. of T. 36 S., R. 16 W., of the Salt Lake Meridian, Utah, showing the respective capacities in which they acted:

- Max W. Woodbury, *Chainman.*
- Edward J. Higbee, *Chainman.*
- Heber Dalley, *Moundman.*
- David Dix, *Moundman.*
- Heber Dalley, *Axman.*
- David Dix, *Axman.*
- William Macfarlane, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley

....., United States Deputy Surveyor, in surveying all retracing base parts or portions of the N. bdy. of T. 38 S., R. 16 W., and S. bdy. of T. 36 S., R. 17 W. and in retracing and resurveying the E. bdy. of T. 38 S., R. 17 W., and S. bdy. of T. 36 S., R. 16 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.

- Max W. Woodbury, *Chainman.*
- Edward J. Higbee, *Chainman.*
- Heber Dalley, *Moundman.*
- David Dix, *Moundman.*
- Heber Dalley, *Axman.*
- David Dix, *Axman.*
- William Macfarlane, *Flagman.*

described and sworn to before me this 21st day of December, 1899.

Senora C. Dalley
Notary Public.



My Commission Expires March 20th, 1903

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from Jacob B. Blair
United States Surveyor General for Utah, bearing date of 23rd
January, 1899, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Survey
General for Utah, the Manual of Surveying Instructions, and the laws of
United States, ^{retraced & resurveyed} ~~surveyed~~ all those parts or portions of The South Boundary
of Township 36 South Range 16 West,

of the Salt Lake
Base and meridian, in the State of Utah, which are represented in
foregoing field notes as having been ^{re} ~~detached~~ 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 Survey
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.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 31st day of May, 1901



Edward Henderson
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1902
The foregoing field notes of the survey of ^{whenever} ~~the~~ the South Boundary of
Township 36 South Range 16 West of the Salt Lake
Base Meridian, Utah

executed by Mayhew H. Dalley
under his contract No. 224, dated January 23, 1899, having
critically examined and the necessary corrections and explanations made, the said field notes, and
^{of the same} surveys they describe, are hereby approved.

Edward Henderson
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

FIELD NOTES

RE-
OF THE SURVEY OF THE

PINE VALLEY GUIDE MERIDIAN

through

TOWNSHIPS NO. 36 SOUTH,

BETWEEN RANGES NOS. 15 AND 16 WEST,

Of the SALT LAKE BASE AND Meridian,
in the
STATE OF UTAH.

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

under his Contract No. 224, dated January 23rd, 1899

Survey commenced November 29th, 1899

Survey completed December 1st, 1899.

6-151	Res	Survey	3. 56. 71 ✓
	"	Clearing	2. 55. 00 ✓
			21. 15 ✓

7-21-71

BOOK A-286

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Edward J. Higbee & Max W. Woodbury and David Dix & William Macfarlane 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 Pine Valley Guide Meridian, through Tps. 36 S., bet. Rs. 15 and 16 W., of the Salt Lake Base and Meridian, Utah

Edward J. Higbee, Chainman.

Max W. Woodbury, Chainman.

David Dix, Chainman.

William Macfarlane, Chainman.

Subscribed and sworn to before me this 15th. day of August, 1899.



My Commission Expires March 23rd, 1903

Senora C. Dalley, Notary Public.

I, Heber Dalley and

do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the survey of the Pine Valley Guide Meridian, through Tps. 36 S., bet. Rs. 15 and 16 W., of the Salt Lake Base and Meridian, Utah.

Heber Dalley, Moundman.

Subscribed and sworn to before me this 15th. day of August, 1899.



My Commission Expires March 23rd, 1903

Senora C. Dalley, Notary Public.

I, Heber Dalley and

do solemnly swear that I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me to the best of my skill and ability, in the survey of the Pine Valley Guide Meridian, through Tps. 36 S., bet. Rs. 15 and 16 W., of the Salt Lake Base and Meridian, Utah.

Heber Dalley, Axman.

Subscribed and sworn to before me this 15th. day of August, 1899.



My Commission Expires March 23rd, 1903

Senora C. Dalley, Notary Public.

I, Hillman Dalley, 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 Pine Valley Guide Meridian, through Tps. 36 S., bet. Rs. 15 and 16 W., of the Salt Lake Base and Meridian, Utah.

Hillman Dalley, Flagman.

Subscribed and sworn to before me this 15th. day of August, 1899.



My Commission Expires March 23rd, 1903

Senora C. Dalley, Notary Public.

Resurvey of E.bdy.of T.36 S.,R.16 W.(Pine Valley Guide Meridian.)

Chains.

Resurvey commenced November 29, 1899, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see Notes of Survey of the S. bdy. of T. 42 S., R. 14 W., Book A.

For complete test of solar apparatus see Notes of Retracement of S. bdy. of T. 36 S., R. 16 W., Book A.

Having previously retraced the S. and W. bdys. of this Tp., and finding the same irregular in bearing and defective in measurements, I make further tests of the courses and lengths of lines before commencing the subdivisions of the Tp. as follows:

November 29, 1899: I set off $37^{\circ}37'$ N. on the lat. arc; $21^{\circ}29'30''$ S. on the decl. arc; and, at 8h49m a. m., l. m. t., determine a true meridian with the solar, at the cor. of Tps. 36 and 37 S., R. 16 W., on the Pine Valley Guide Meridian, heretofore described in the Notes of Retracement of S. bdy. of this Tp.; thence I run N. on blank line, on E. bdy. of sec. 36, on Pine Valley Guide Meridian; at 40.00 chs. find no trace of the old $1/4$ sec. cor.; 63.10 chs., the closing cor. of Tps. 36 and 37 S., R. 15 W. on line; 80.00 chs. find no trace of the old cor. of secs. 19, 24, 25 and 30, after diligent search; I continue N. along E. bdy. of sec. 25; at 120.00 chs., make diligent search but find no trace of the old $1/4$ sec. cor.; and at 160.00 chs., the old cor. of secs. 19, 24, 25 and 30, bears $N. 53^{\circ}21' E.$, 4.75 chs. dist.; therefore I continue my line N., find no part of the E. bdy. in alinement, measurements defective and that many of the corners are missing or nearly obliterated. At 561.71 chs. intersect the N. bdy. of the Tp. (7th. Standard Parallel South.) 21.15 chs. W. of the Standard cor. to Tp. 35 S., Rs. 15 and 16 W.

I find no trace of the old closing cor. of T. 36 S., Rs. 15 and 16 W. after diligent search.

November 29, 1899.

Resurvey of E.bdy.of T.36 S.,R.16 W.(Pine Valley Guide Meridian.)

Chains.	<p>Finding the E.bdy.of the Tp.irregular in bearing and defective in measurements, and no subdivisional lines depending thereon, I return to the cor. of Tps.36 and 37 S.,R.16 W.,on Pine Valley Guide Meridian,heretofore described, and Resurvey the Pine Valley Guide Meridian,through Tps.36 S.,as follows:</p> <p>November 30,1899:At this Tp.cor.,I set off 37° 37' N.on the lat.arc;21°39'30" S.on the decl.arc; and,at 8^h49^m a.m.,l.m.t.,determine a true meridian with the solar.</p> <p>Thence I run</p> <p>N.,on E.bdy.of sec.36.</p> <p>Descend rapidly over N.W.slope of high ridge,through dense cedar and nut pine timber.</p>
15.55	<p>Ravine about 5.00 chs.wide and 25 ft.deep, and about 275 ft.below the Tp.cor.,drains N.W.</p>
32.60	<p>Wood road bears S.40° W.and N.40° E.</p>
33.75	<p>Ravine about 2.00 chs.wide and 25 ft.deep,drains S. W.;ascend from ravine.</p>
37.50	<p>Top of spur of ridge,about 50 ft.high,bears E.and W. Descend over N.slope of spur.</p>
	<p>Difference bet.measurements of 40.00 chs.by two sets of chainmen is 22 lks.;position of middle point</p> <p>By 1st.set,40.11 chs.,</p> <p>By 2nd.set,39.89 chs.;the mean of which is</p>
40.00	<p>Set a porphyry stone 18x10x3 ins.,12 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;and raised a mound of stone,2 ft.base,1 1/2 ft.high,W.of cor. Pits impracticable.No trace.of old cor. This cor.is on N.slope of spur about 300 ft.below the Tp.cor. Timber of same class decreasing in density.</p>
43.50	<p>Ravine about 1.00 ch.wide and 50 ft.deep,drains N.W. Ascend from ravine over S.W.slope of ridges.</p>
56.50	<p>Top of sharp spur of ridge about 125 ft.above last ravine,bears E.and W.;descend rapidly over N.W.slope of spur.</p>
59.00	<p>Ravine about 1.00 ch. wide and 50 ft.deep,drains N. 55° W.;ascend over S.W.slope of ridges.</p>
63.10	<p>The closing cor.of Tps.36 and 37 S.,R.16 W.,which is a gray sandstone 12x10x5 ins.above ground,marked and</p>

Survey of E.bdy. of T.36 S., R.16 W. (Pine Valley Guide Meridian.)

Chains. witnessed as described by the Surveyor General.

67.25 Top of ascent on N.W. point of rocky ridge, bears N. 60° W. and S. 60° E., about 100 ft. above last ravine; descend rapidly over N.E. slope of high spur of main ridges.

78.50 Ravine at foot of ridge about 2.00 chs. wide and 50 ft deep, about 200 ft. below top of last ridge or spur, drains rapidly W. about 1.00 ch., thence N.W.; ascend abruptly from ravine over S.W. slope of ridges. Difference bet. measurements of 80.00 chs. by two sets of chainmen is 20 lks.; position of middle point
 By 1st. set, 80.10 chs.,
 By 2nd. set, 79.90 chs.; the mean of which is

80.00 Set a yellow sandstone 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. edges; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable, and no suitable bearing trees near the corner. Find no trace of the old cor. of secs. 25, 30, 31 and 36, after further diligent search. This cor. is on S.W. slope of high ridge about 75 ft. above last ravine. Land mountainous and broken. Soil, stony and gravelly; 4th. rate. Timber, dense cedars and nut pine on 1st. 40.00 chs.; medium dense timber of same class with dead and down pinion pine on N. 40.00 chs. Undergrowth, scattering oak and service berry, with shrubbery and grasses, which afford fair grazing. Mountainous land on 80.00 chs.

N. on E. bdy. of sec. 25; ascending over rocky S.W. slope of ridges; through medium dense cedars and nut pine timber, with dead and down pinion pine.

4.80 Ravine about 2.00 chs. wide and 50 ft. deep, drains S. 70° W.

7.50 Top of sharp spur of ridge about 100 ft. above the

Resurvey of E.bdy. of T.36 S., R.16 W. (Pine Valley Guide Meridian.)

Chains: sec.cor., bears N.E. and S.W.; descend over N.W. slope of spur.

11.90 N.W. foot of spur about 75 ft. below the top, falls rapidly to N.70° W.; ascend.

13.00 Top of spur on N.W. slope of ridge about 50 ft. high, bears E. and W.; descend over N.W. slope of high ridges

33.00 Enter Escalante Valley at N.W. foot of high ridges, about 150 ft. below top of last spur, bears S.30° W. and N.E.; leave cedars and pines and dead and down timber. Thence gradually descending, over N.W. slope of rolling foot hills.

37.40 Old wood road bears W. and N.80° E.

Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point

By 1st. set, 39.98 chs.,

By 2nd. set, 40.02 chs.; the mean of which is

40.00 Set a yellow sandstone 18x12x12 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is in a bed of small boulders.

62.00 Wash about 25 lks. wide and 4 ft. deep, drains N.20° W.

71.35 Road from Cedar City by way of Iron City and the Castle at mouth of Pinto Canon to Holts Ranch and Enterprise, bears N.E. and S.W.

Difference bet. measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point

By 1st. set, 79.97 chs.,

By 2nd. set, 80.03 chs.; the mean of which is

80.00 Set a yellow sandstone 20x12x6 ins., 15 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 raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is in bed of boulders, on N.W. slope of low foot hills, about 75 ft. below foot of ridges on S. side of valley.

Land partly mountainous and broken, and partly slight rolling low foot hills.

Soil, gravelly and stony; 4th. rate on ridges and 3rd. rate on low foot hills.

Resurvey of E.bdy. of T.36 S., R.16 W. (Pine Valley Guide Meridian.)

Chains. Timber, medium dense nut pine and cedars with dead and down timber on S. 33.00 chs.
 Undergrowth of sage and serviceberry with shrubbery and grasses afford fair grazing.
 Mountainous land on 33.00 chs.
 November 30, 1899: At this sec. cor., I set off $21^{\circ} 41' 30''$ S. on the decl. arc; and, at 11^h49^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 39'$ N.
 The old cor. of secs. 19, 24, 25 and 30, which is a granite stone 15x10x5 ins. above ground, bears N. $53^{\circ} 21' E.$, 4.75 chs. dist. from the new sec. cor. I destroy all traces of this old cor.

N. on resurvey line on E. bdy. of sec. 24; gradually descending over low foot hills.
 13.20 Trail bears N. $80^{\circ} E.$ and S. $80^{\circ} W.$
 15.50 Wash about 15 ft. wide and 3 ft. deep, drains N. $70^{\circ} W.$
 28.00 Leave slope bears N.E. and S.W., and enter nearly level land. About 75 ft. below the sec. cor.
 Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point
 By 1st. set, 40.02 chs.,
 By 2nd. set, 39.98 chs.; the mean of which is
 40.00 Set a limestone 16x10x8 ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, $3\frac{1}{2}$ ft. base, 1 $1/2$ ft. high, W. of cor. The old $1/4$ sec. cor., a volcanic stone 12x8x6 ins., with witness points obliterated, bears N. $47^{\circ} 11' E.$, 5.17 chs. dist. I destroy all traces of this old cor.
 Difference bet. measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point
 By 1st. set, 80.01 chs.,
 By 2nd. set, 79.99 chs.; the mean of which is
 80.00 Set a yellow sandstone 18x10x5 ins., 12 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edges; dug pits 18x18x12 ins.,

Resurvey of E.bdy.of T.36 S.,R.16 W.(Pine Valley Guide Meridian.)

Chains.	<p>in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>From this cor., the old cor. of secs. 13, 18, 19 and 24, a trachyte 15x10x4 ins., properly marked with witness points obliterated, bears N. 43° 34' E., 5.44 chs. dist. I destroy all traces of this old sec. cor.</p> <p>Land partly on N.W. slope of low foot hills, and partly nearly level.</p> <p>Soil on the slope, sandy and gravelly; 3rd. rate. N. of slope; clay loam, mixed with fine gravel; 2nd. rate.</p> <p>No timber.</p> <p>Undergrowth, scattering sage brush on N. 24.00 chs.</p> <p>Shrubbery and grasses afford fair grazing.</p>
19.90	<p>N. on resurvey line on E. bdy. of sec. 13; over nearly level land; slightly descending.</p> <p>Trail bears E. and W.</p>
23.40	<p>Wire fence belonging to citizens of Pinto and Holts Ranch, enclosing a large tract of land extending S. to the high mountain range, bears N. 80° E., about 30.00 chs., thence S., and S. 80° W. This tract is used for pasturage of horses and cattle.</p>
23.50	<p>Trail bears N. 80° E. and S. 80° W.</p> <p>Difference bet. measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point</p> <p>By 1st. set, 40.02 chs.,</p> <p>By 2nd. set, 39.98 chs.; the mean of which is</p>
40.00	<p>Set a yellow sandstone 15x12x7 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.</p>
60.00	<p>Find no trace of old 1/4 sec. cor. after diligent search.</p> <p>Wash about 12 lks. wide and 2 ft. deep, drains W.</p>
69.77	<p>Road from Cedar City by way of Castle to Holts Ranch bears N. E. and S. W.</p> <p>Difference bet. measurements of 80.00 chs. by two sets of chainmen is 6 lks.; position of middle point</p> <p>By 1st. set, 79.97 chs.,</p> <p>By 2nd. set, 80.03 chs.; the mean of which is</p>

Resurvey of E.bdy. of T.36 S., R.16 W. (Pine Valley Guide Meridian.)

Chains.

80.00 Set a yellow sandstone 15x12x10 ins., 10 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

The old cor. of secs. 7, 12, 13 and 18, which is a volcanic stone 15x8x4 ins., properly marked, with witness points obliterated, bears N. 43° 12' E., 6.10 chs. dist. from the new cor. I destroy all traces of the old sec. cor.

Land nearly level, gently sloping N. and W.

Soil, red clay loam; 2nd. rate.

No timber.

Scattering greasewood undergrowth, with an abundance of shrubbery and some grass, afford fair grazing.

November 30, 1899.

December 1, 1899: I set off 37° 41' N. on the lat. arc; 21° 49' S. on the decl. arc; and, at 8^h 49^m a.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 7, 12, 13 and 18, on E. bdy. of the Tps, heretofore described.

Thence I run N., on resurvey line on E. bdy. of sec. 12; gradually descending over nearly level ground.

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

By 1st. set, 40.01 chs.,

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

40.00 Set a yellow sandstone 14x12x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone; 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

52.50 Old road bears S. 75° E. and N. 75° W.

58.00 Enter dense sage undergrowth bears E. and W.

Difference bet. measurements of 80.00 chs. by two sets

Resurvey of E.bdy.of T.36 S.,R.16 W.(Pine Valley Guide Meridian.)

<p>Chains:</p> <p>80.00</p> <p><i>29/5</i></p>	<p>of chainmen is 4 lks.;position of middle point . . .</p> <p>By 1st.set,79.98 chs.,</p> <p>By 2nd.set,80.02 chs.;;the mean of which is</p> <p>Set a yellow sandstone 18x12x6 ins.,12 ins.in the ground,for cor.of secs .1,6,7 and 12,marked with 5 notches on S.and 1 notch on N.edges;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor.</p> <p>The old cor.,which is a sandstone 18x11x10 ins., properly marked,with witness points obliterated, bears N.44°19' E.,6.71 chs.dist. I destroy all traces of this old cor.of secs.1,6,7 and 12.</p> <p>Land nearly level,gently sloping to N.</p> <p>Soil,clay loam slightly intermixed with fine gravel;</p> <p>2nd.rate.</p> <p>No timber.</p> <p>Dense sage undergrowth on 22.00 chs.</p>
<p>19.94</p> <p>40.00</p> <p>54.25</p> <p>161.71</p>	<p>N.,on E.bdy.of sec.1.</p> <p>Slightly descending over nearly level land;through dense sage undergrowth.</p> <p>Road from Cedar City by way of Iron City to Modena bears S.60° E.and N.60° W.</p> <p>Difference bet.measurements of 40.00 chs.by two sets of chainmen is 4 lks.;position of middle point</p> <p>By 1st.set,40.02 chs.,</p> <p>By 2nd.set,39.98 chs.;the mean of which is</p> <p>Set a yellow sandstone 15x10x5 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, W.of cor.</p> <p>I find no trace of the old 1/4 sec.cor.after diligent search.</p> <p>Trail bears N.60° W.and S.60° E.</p> <p>Intersect 7th.Standard Parallel South,21.15 chs.W. of the standard cor.of T.35 S.,Rs.15 and 16 W., which is a red sandstone 12x8x5 ins.above ground,</p>

Survey of E. bdy. of T. 36 S., R. 16 W. (Pine Valley Guide Meridian.)

Chains. marked and witnessed as described by the Surveyor General.

Set a red sandstone 16x12x5 ins., 11 ins. in the ground, for closing cor. of Tp. 36 S., Rs. 15 and 16 W., marked C.C. 36 S. on S., 15 W. on E., and 16 W. on W. faces, with 6 grooves on S., E. and W. faces; dug pits 30x24x12 ins., crosswise on each line, E. and W. 4 ft., and S. of stone, 8 ft. dist.; and raised a mound of earth, 5 ft. base, 2 1/2 ft. high, S. of cor.

I make further diligent search, but find no trace of the old closing cor. of Tp. 36 S., R. 15 and 16 W.

Land nearly level, gently sloping to N.

Soil, clay loam slightly intermixed with fine gravel; 1st. and 2nd. rate.

No timber.

Dense sage undergrowth on 161.71 chs.

December 1, 1899: At this closing Tp. cor., I set off 21° 51' S. on the decl. arc; and, at 11^h 49^m a.m., l.m.t., observe the sun on the meridian; the resulting lat is 37° 43' N.

December 1, 1899.

GENERAL DESCRIPTION.

For General Description see Notes of the Subdivisions of this Township.

December 1, 1899.

Mayhew H. Galley
U.S. Deputy Surveyor.

Resurvey of E.bdy.of T.36 S.,R.16 W.(Pine Valley Guide Meridian.)

BOUNDARIES OF T.36 S.,R.16 W.							
Latitudes,Departures and Closing Errors.							
Line Designated.	True Bearing.	Distance.	Latitudes.		Departures		
			N.	S.	E.	W.	
		Chs.	Chs.	Chs.	Chs.	Chs.	Chs.
S.bdy.T.36 S.R.16 W.							
S.bdy.sec.36.	N.89°47'W.	80.00	.30				80.00
S.bdy.sec.35.	N.89°47'W.	80.00	.30				80.00
S.bdy.sec.34.	N.89°57'W.	80.98	.07				80.98
S.bdy.sec.33.	S.89°59'W.	82.18		.03			82.18
S.bdy.sec.32.	S.89°45'W.	80.95		.35			80.95
S.bdy.sec.31.	S.89°53'W.	78.95		.16			78.95
W.bdy.T.36 S.,R.16 W.							
(E.Bdy.T.36 S.,R.17 W)	North	562.35	562.35				
N.bdy.T.36 S.,R.16 W.							
7th.Standard Parallel							
South.	East	484.07				484.07	
480.00±25.22 -21.15 chs.							
E.bdy.T.36 S.R.16 W.							
Pine Valley Guide Meridian.	South.	561.71		561.71			
Convergency						.56	
Totals			563.02	562.25	484.63	483.06	
			562.25		483.06		
Error in lat.			.77				
Error in departure					1.57		

Mayhew H. Dalley
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley; 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 23rd day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for re- Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Pine Valley Guide Meridian through Tps. 36 S., bet. Rs. 15 and 16 W., of

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.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 31st day of May 1901, 1899



Edward Henderson
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17 1902, 1899

The foregoing field notes of the survey of the Pine Valley Guide Meridian through townships 36 South between ranges 15 and 16 West of the Salt Lake Base & Meridian Utah,

executed by Mayhew H. Dalley under his contract No. 224, dated January 23rd, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the resurveys they describe, are hereby approved.

Edward Henderson
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.

M.

BOOK A-286

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS OF T. 36 SOUTH, RANGE 16 WEST,

Of the SALT LAKE BASE AND Meridian,
in the
STATE OF UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

his Contract No. 224, dated January 23rd, 1899

work commenced December 1st, 1899

work completed December 15th, 1899

Subs - high 36-08-80 ✓
 " low 29-22-32 ✓
 Orangs - 1-38-77 ✓

6-31-12

NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury, Chainman.

Edward J. Higbee, Chainman.

Heber Dalley, Moundman.

David Dix, Moundman.

Heber Dalley, Axman.

William Macfarlane, Flagman.

In preliminary affidavits see book H. 388. R. 6. 97

6-151

Volume

#

R0286

BOOK A-286

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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



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 }



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 }



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 }



Subdivisions of T.36 S.,R.16 W.

Chains

Survey commenced December 1st.,1899,and executed with a W.and L.E.Gurley Light Mountain Solar Transit,for description of which see Notes of Survey of S.bdy.of T.42 S.,R.14 W.,Book A .

For complete test of solar apparatus see Notes of Retracement of S.bdy.of this Tp.,Book K .

I begin at the cor.of secs.1,2,35 and 36,on the S.bdy.of the Tp.,as described in Notes of Resurvey of this bdy.,and subdivide the Tp.as follows:

December 1,1899:I set off 37°37' N.on the lat.arc. 21°51'30" S.on the decl.arc;and,at 3^h.p.m.,l.m.t., determine a true meridian with the solar;thence I run

N.,00° 1' W.,bet.secs.35 and 36.

Descend over N.W.slope adjoining foot hills;through medium dense sage undergrowth and scattering cedars.

6.00 Leave cedars bears E.and W.

7.80 Wash 16 lks.wide and 4 ft.deep,drains N.50° W.

25.10 Enter scattering cedars bears S.30° E.and N.80° W..

40.00 Set a trachyte stone 15x10x5 ins.,10 ins.in the ground,for 1/4 sec.cor.;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth, 3 1/2 ft.base,1 1/2 ft.high,W.of cor. Cor.is on N.W.slope about 50 ft.below the sec.cor.

40.40 Road from Holt's Ranch to Castle bears S.40° W.and N.40° E.

50.00 Leave scattering cedars and medium dense sage bears E.and W.;enter scattering sage.

70.80 Wash about 15 lks.wide and 2 ft.deep,drains N.W.

80.00 Set a volcanic stone 18x10x5 ins.,12 ins.in the ground,for cor.of secs.25,26,35 and 36,marked with 1 notch on S.and E.edges;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth, 4 ft.base,2 ft.high,W.of cor.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. Land on N.W.slope adjoining foot hills, slightly rolling.

Soil, sandy and clay loams intermixed with gravel, and stony on the S.; 3rd. and 4th. rate.

Timber, scattering cedars on S. part of sec.

Medium dense, and scattering sage with shrubbery and grasses afford fair grazing.

S.89° 47' E. on a random line bet. secs. 25 and 36.

40.00 Set temp. I/4 sec. cor.

79.98 Intersect E. bdy. of Tp. (Pine Valley Guide Meridian), 13 lks. S. of the cor. of secs. 25, 30, 31 and 36, heretofore described in the resurvey of this bdy.

Thence I run

N.89° 53' W., on a true line bet. secs. 25 and 36.

Descend over S.W. slope of high ridge, through scattering cedars.

4.00 Bottom of ravine about 75 ft. below the sec. cor., about I. II ch. wide and 25 ft. deep, drains N.W.; ascend from ravine over N.E. slope of ridge.

6.70 Top of spur on N.W. slope of high ridge, about 50 ft. high, bears N.W. and S.E.; descend over S.W. slope of spur.

13.70 Foot of spur and ridges about 75 ft. below the top bears S. 10° W. and N. 10° E.; thence over N.W. slope adjoining the ridges.

21.00 Leave cedars bears N. and S.

27.50 Wash 12 lks. wide and 6 ft. deep, drains N. 25° W.

33.60 Wash 25 lks. wide and 6 ft. deep, drains N. 70° W.

39.99 Set a trachyte stone 16x10x6 ins., 11 ins. in the ground, for I/4 sec. cor., marked I/4 on N. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Cor. is on rocky slope, about 50 ft. below foot of spur and ridges.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.

55.00 Road from Holt's Ranch to the Castle, bears S.30° W. and N.30° E.

79.98 The cor. of secs. 25, 26, 35 and 36, on N.W. slope, about 75 ft. below the 1/4 sec. cor.

Land, mountainous and broken ridges on the E., and rolling slope on the W.

Soil, sandy and clay intermixed with gravel, and stony; 3rd. and 4th. rate

Timber, scattering cedars on E. 25.00 chs.

Medium dense sage undergrowth with shrubbery and grasses afford fair grazing.

Mountainous land on 13.70 chs.

December 1st, 1899.

1370
1628

N., 0° 1' W., bet. secs. 25 and 26.

Descend over N.W. slope adjoining foot hills.

5.00 Trail bears N.50° E. and S.50° W.

16.00 Trail bears N.55° E. and S.55° W.

40.00 Set a yellow sandstone 16x8x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

48.00 Trail bears N.50° E. and S.50° W.

75.00 Trail bears N.40° E. and S.40° W.

80.00 Set a yellow sandstone 18x12x10 ins., 12 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and 1 notch on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, N.W. slope adjoining foot hills, slightly rolling.

Soil, sandy and clay loams slightly intermixed with

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains, gravel, and stony on S. 1/8 mile; 2nd. and 3rd. rate.

No timber.

Scattering sage and greasewood with shrubbery and grasses, which afford good grazing.

S. 89° 53' E., on a random line bet. secs. 24 and 25.

40.00 Set temp. 1/4 sec. cor.

80.26 Intersect E. bdy. of Tp. (Pine Valley Guide Meridian), 18 lks. S. of the cor. of secs. 19, 24, 25 and 30, described in Notes of resurvey of this bdy.

Thence I run

S. 89° 59' W., on a true line bet. secs. 24 and 25.

Over N.W. slope adjoining foot hills.

35.18 Wash 12 lks. wide and 3 ft. deep, drains N. 50° W.

36.23 Trail bears N.E. and S.W.

40.13 Set a yellow sandstone 14x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

57.93 Trail bears N.E. and S.W.

76.63 Trail bears N. 40° E. and S. 40° W.

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

Land, N.W. slope adjoining foot hills, slightly rolling and falling to N.W. at the rate of about 50 ft. to 1/2 mile.

Soil, sandy and clay loams intermixed with gravel, and stony on E. 20.00 chs.; 2nd. and 3rd. rate.

No timber, except very few cedars on E. 20.00 chs.

Scattering sage and greasewood undergrowth; shrubbery and grasses in sufficient quantity to make fair grazing.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.	N.0°1' W.,bet.secs.23 and 24.
	Descend over N.W.slope adjoining foot hills.
1.80	Trail bears N.30° E.and S.30° W.
12.00	Trail bears N.E.and S.W.
36.60	Trail and foot of slope about 50 ft.below the sec. cor.,bears N.40° E.and S.40° W.;descend very gradually
40.00	Set a sandstone 16x10x6 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x 18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high W.of cor.
46.76	Wire fence built by citizens of Holts Ranch and Pinto,enclosing pasture which extends S.to the mountains bears N.E.and S.W.;leave pasture,and continue on very gradual descent.
48.12	Trail bears N.E.and S.W.
57.22	Trail bears N.50° E.and S.50° W.
61.62	Road from Cedar City and Pinto by way of Castle to Holt's Ranch,Enterprise and Hebron,bears N.40° E.and S.40° W.
72.58	Trail bears N.E.and S.W.
80.00	Set a yellow sandstone 18x10x6 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;dug pits 18x 18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor. Land,on slope in S.1/2 of sec.,slightly rolling;N. of slope nearly level,gently sloping N.and N.W. Soil,sand and clay loams,slightly intermixed with gravel;1st.and 2nd.rate. No timber. Ground covered with,dense.desert weed shrubbery, grasses and scattering greasewood and.sage,and especially suited to grazing purposes. The enclosure S.of fence is occupied by citizens of Holt's Ranch and Pinto for pasturing horned stock and horses.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.	<p>December 2, 1899: At this cor. of secs. 13, 14, 23 and 24, I set off 22° S. on the decl. arc; and, at 11h50m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is $37^{\circ}40'$ N.</p>
	<p>N., $89^{\circ}59'$ E. on a random line bet. secs. 13 and 24.</p>
40.00	<p>Set temp. $1/4$ sec. cor.</p>
80.36	<p>Intersect E. bdy. of Tp., (Pine Valley Guide Meridian), 14 lks. S. of the cor. of secs. 13, 18, 19 and 24, heretofore described in the Resurvey of this bdy.</p>
	<p>Thence I run S., $89^{\circ}53'$ W. on a true line bet. secs. 13 and 24; gradually descending over nearly level ground sloping N. and N.W.</p>
40.18	<p>Set a yellow sandstone 15x9x5 ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 $1/2$ ft. base, 1 $1/2$ ft. high, N. of cor.</p>
42.38	<p>Trail bears $N.50^{\circ} E.$ and $S.50^{\circ} W.$</p>
44.70	<p>Wire fence on N.W. side of pasture bears N.E. and S.W. leave enclosed pasture, which extends S. to the mountain range.</p>
49.23	<p>Trail bears N.E. and S.W.</p>
60.05	<p>Trail bears $N.40^{\circ} E.$ and $S.40^{\circ} W.$</p>
65.86	<p>Road from Cedar City and Pinto by way of Castle to Holts Ranch, Enterprise and Hebron, bears $N.40^{\circ} E.$ and $S.40^{\circ} W.$</p>
71.70	<p>Trail bears $N.55^{\circ} E.$ and $S.55^{\circ} W.$</p>
80.36	<p>The cor. of secs. 13, 14, 23 and 24. Land nearly level, gently sloping N. and N.W. Soil, rich clay and sandy loams, slightly intermixed with gravel; 1st. and 2nd. rate. No timber.</p>

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. Scattering greasewood, and thick desert weed and other shrubbery and grasses afford good grazing.

The land in enclosure is occupied by the citizens of Holt's Ranch and Pinto for pasturage of horses and horned stock.

N.001' W., bet. secs. 13 and 14.

Over nearly level land, slightly descending; through scattering greasewood and sage undergrowth.

21.18 Trail bears N.35° E. and S.35° W.

40.00 Set a volcanic stone 15x10x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

44.00 Enter dense sage undergrowth, bears N.45° E. and S.35° W. leave scattering sage and greasewood.

64.00 Trail bears N.35° E. and S.35° W.

80.00 Set a trachyte stone 16x6x4 ins., 11 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

36/44

Land nearly level, gently sloping N.

Soil, clay and sandy loams, slightly intermixed with gravel; 1st. and 2nd. rate.

No timber.

Undergrowth, shrubbery and grasses afford good grazing.

Dense undergrowth on 36.00 chs.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains

December 2, 1899: I set off $370^{\circ}41'$ N. on the lat. arc; $21^{\circ}59'$ S. on the decl. arc; and, at $3^{\text{h}}50^{\text{m}}$ p.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 11, 12, 13 and 14, heretofore described

Thence I run

N. $89^{\circ}53'$ E., on a random line bet. secs. 12 and 13.

40.00 Set temp. $1/4$ sec. cor.

80.46 Intersect E. bdy. of Tp., (Pine Valley Guide Meridian), 5 lks. S. of the cor. of secs. 7, 12, 13 and 18, heretofore described in notes of resurvey of this bdy.

Thence I run

S., $89^{\circ}51'$ W., on a true line bet. secs. 12 and 13.

Over nearly level ground; through scattering greasewood undergrowth.

40.23 Set a trachyte stone $14 \times 10 \times 4$ ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.

78.62 Leave scattering greasewood and enter dense sage undergrowth, bears N. and S.

80.46 The cor. of secs. 11, 12, 13 and 14.

Land nearly level, gently sloping S.W. on E. $1/2$ of sec. and sloping N.W. on W. $1/2$ mile.

Soil, mostly heavy clay and porous with indications of water near surface on E. $3/4$ mile, and loamy on W. $1/4$ mi.; 2nd and 1st. rate.

No timber.

Undergrowth, shrubbery and grasses afford fair grazing.

Dense undergrowth on 2.00 chs.

December 2, 1899.

80.46

$\frac{2}{48}$

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. N., 0° 1' W., bet. secs. 11 and 12.

Over level land; through dense sage and greasewood undergrowth.

10.00 Leave dense sage and greasewood; enter scattering greasewood, bears E. and W.

40.00 Set a granite stone 16x10x5 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

51.25 Old road bears E. and W.

57.00 Enter dense sage undergrowth bears E. and W.; leave scattering greasewood.

80.00 Set a yellow sandstone 18x10x5 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, marked with 5 notches on S. and 1 notch on E. edges; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level; gently sloping N. and W.

Soil, heavy clay and rich clay loam; last 15.00 chs. slightly gravelly; 1st. and 2nd. rate.

No timber.

Undergrowth shrubbery and grasses in abundance affor good grazing.

Dense undergrowth on 33.00 chs.

N., 89° 51' E., on a random line bet. secs. 1 and 12.

40.00 Set temp. 1/4 sec. cor.

80.50 Intersect E. bdy. of Tp., (Pine Valley Guide Meridian), at the cor. of secs. 1, 6, 7 and 12, heretofore described in notes of resurvey of this bdy.

Thence I run

S. 89° 51' W., on a true line bet. secs. 1 and 12.

Over nearly level land; through medium dense sage and greasewood undergrowth.

80.70

Subdivisions of T.56 S., R.16 W.-Continued.

Chains.

40.25 Set an iron stone 16x7x6 ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 $1/2$ ft. base, 1 $1/2$ ft. high, N. of cor.

60.70 Enter dense sage undergrowth bears N. and S.; leave medium dense sage and scattering greasewood.

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

22' 11"

Land nearly level, gently sloping N.

Soil, clay and clay loam; 2nd. and 1st. rate.

No timber.

Undergrowth, shrubbery and grasses in sufficient quantity to make good grazing.

Dense undergrowth on 20.00 chs.

From the cor. of secs. 1, 2, 11 and 12, already described, I run *bet. sec 1 & 2*

N., 001' W., on a true line, knowing that a closing cor. will be necessary on the 7th. Standard Parallel South.

Over nearly level ground; through dense sage undergrowth.

20.00 Leave dense sage bears E. and W.; enter scattering sage.

35.00 Enter dense sage undergrowth, bears E. and W.; leave scattering sage.

40.00 Set a granite stone 17x12x8 ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor.

58.70 Road from Cedar City by way of Iron City and The Castle to Modena, bears S. 60° E. and N. 60° W.

161.40 Leave dense sage and enter dense greasewood under-

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

growth,bears E.and N.20° W.

162.54

Intersect 7th.Standard Parallel South,21.85 chs.W. of the standard cor.of secs.35 and 36,T.35 S.,R.16 W.,which is a red granite stone 11x6x8 ins.abobe ground,marked and witnessed as.described by the Surveyor General.

147.54 / 15.00

Set a trachyte stone 16x10x7 ins.,11 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;dug pits 24x18x12 ins.,crosswise on each line E.and W., 3 ft.and S.of stone 7 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high S.of cor.

Land nearly level,gently sloping. N.

Soil,clay and clay loam covered with fine gravel;

Ist.and 2nd.rate.

No timber.

Undergrowth of sage and greasewood,shrubbery and grasses afford good grazing.

Dense undergrowth on 147.54 chs.

December 4,1899:At this closing sec.cor.,I set off 22° 17' S.on the decl.arc;and,at 11h50m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 43' N.

From the cor.of secs.2,3,34 and 35,on S.bdy.of the Tp.,heretofore described in retracement an re-survey of this bdy.,I run

N.0°1' W.,bet.secs.34 and 35.

Gradually descend over slightly rolling land;through dense sage undergrowth.

3.30

Trail bears N.50° E.and S.50° W.

11.60

Trail bears N.50° E.and S.50° W.

17.00

Leave dense sage undergrowth,bears E.and W.;enter scattering sage.

Subdivisions of T.36 S.,R.16 WW .-Continued.

Chains	
18.60	Wash 10 lks.wide and 4 ft.deep,drains N.35° W.
21.50	Enter dense sage undergrowth bears S.E.and N.W.; leave scattering sage.
30.50	Trail bears N.E.and S.W.
37.50	Leave dense sage bears E.and W.;enter scattering sage.
40.00	Set a gray granite stone 15x10x8 ins.,10 ins.in the the ground,for 1/4 sec.cor.,marked 1/4 on W.face; dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.; and raised a mound of earth,3 1/2 ft.base,1 1/2 ft. high,W.of cor.
40.97	Trail bears N.E.and S.W.
49.25	Trail bears N.E.and S.W.
66.25	Trail bears N.E.and S.W.
79.46	Trail bears N.35° E.and S.35° W.
80.00	Set a trachyte stone 16x13x8 ins.,11 ins.in the ground,for cor.of secs.26,27,34 and 35,marked with I notch on S.and 2 notches on E.edges;dug pits 18x 18x12ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor. Land,N.W.slope adjoining the foot hills,descending to N.and W.,slightly rolling. Soil,sand and clay loams mixed with gravel;2nd.rate. No timber. Undergrowth,shrubby and grasses afford fair graz- ing.Land enclosed and occupied by citizens of Holt's Ranch and Pinto for grazing purposes. Dense undergrowth on 33.50 chs.

23 50
46 50
4.

December 4,1899:I set off 37°38' N.on the lat.
arc;22°15'50" S.on the decl.arc;and,at 3h 50m p.m.,
l.m.t.,determine a true meridian with the solar,at
the cor.of secs.26,27,34 and 35,heretofore descri-
bed.

Thence I run

13
59

33

Subdivisions of T.36 S., R.16 W.-Continued.

- Chains. S., 89°47' E. on a random line bet. secs. 26 and 35.
- 40.00 Set temp. 1/4 sec. cor.
- 80.22 Intersect N. and S. line, 1 lks. N. of the cor. of secs. 25, 26, 35 and 36, heretofore described.
- Thence I run
- N. 89°47' W., on a true line bet. secs. 26 and 35.
- Descend over N.W. slope, slightly rolling.
- 5.24 Trail bears N. 50° E. and S. 50° W.
- 13.29 Trail bears N. 30° E. and S. 30° W.
- 29.50 Trail bears N. 30° E. and S. 30° W.
- 40.11 Set a yellow sandstone 14x10x8 ins., 10 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 43.86 Trail bears N. 40° E. and S. 40° W.
- 69.56 Trail bears N. 40° E. and S. 40° W.
- 79.09 Trail bears N. 35° E. and S. 35° W.
- 80.22 The cor. of secs. 26, 27, 34 and 35.
- Land, N.W. slope adjoining the foot hills, slightly rolling.
- Soil, clay and sandy mixed with gravel; 2nd. rate.
- No timber.
- Undergrowth, scattering sage and greasewood, with shrubbery and grasses make good pasture; and occupied by citizens of Holt's Ranch and Pinto for grazing purposes.

December 4, 1899.

N. 0° 1' W., bet. secs. 26 and 27; gradually descending over N.W. slope; through scattering sage and greasewood undergrowth.

- 4.86 Trail bears N.E. and S.W.
- 17.86 Wire fence on N.W. side of pasture bears N. 35° E. and

Subdivisions of T.36 S.,R.16 W.-Continued.

- Chains.S.35° W.;leave pasture at foot of slope;thence more gradual descent.
- 19.10 Road from Cedar City by way of Castle to Holt's, Enterprise and Hebron,bears N.35° E.and S.35° W.
- 20.33 Trail bears N.40° E.and S.40° W.
- 31.65 Trail bears N.30° E.and S.30° W.
- 33.50 Wash 12 lks.wide and 3 ft.deep,drains N.35° E.
- 34.50 Enter dense sage undergrowth bears N.30° E.and S.30° W.;leave scattering sage and greasewood.
- 40.00 Set a lava stone 16x10x8 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18 x12 ins.,N.and S.of stone,5 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.
- 46.60 Trail bears N.E.and S.W.
- 56.50 Leave dense undergrowth bears N.30° E.and S.30° W.; enter scattering sage and greasewood .
- 56.87 Trail bears N.50° E.and S.50° W.
- 67.40 Trail bears N.35° E.and S.35° W.
- 73.00 Enter dense sage undergrowth bears E.and W.;leave scattering greasewood and sage.
- 80.00 Set a trachyte stone 15x8x6 ins.,10 ins.in the ground,for cor.of secs.22,23,26 and 27,marked with 2 notches on S.and E.edges;dug pits 18x18x12 ins.in each sec.,5 1/2 ft.dist.;and raised a mound of earth, 4 ft.base,2 ft.high,W.of cor.
- Land partly on N.W.slope,slightly rolling,and partly nearly level with course of drainage N.and N.E.
Soil,sand and clay loams and gravelly;1st.and 2nd. rate.
No timber.
Sage and greasewood undergrowth with shrubbery and grasses afford good grazing.
Dense undergrowth on 29.00 chs.

Subdivisions of T.36 S., R.16 W.-Continued.

- Chains S., $89^{\circ}47'$ E. on a random line bet. secs. 23 and 26.
- 40.00 Set temp. $1/4$ sec. cor.
- 80.10 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 23, 24, 25 and 26, heretofore described.
- Thence I run
- N. $89^{\circ}42'$ W., on a true line bet. secs. 23 and 26.
- Descend gradually through scattering sage and grease wood undergrowth.
- .82 Trail bears N. 40° E. and S. 40° W.
- 10.27 Trail bears N. 40° E. and S. 50° W.
- 20.82 Trail bears N. 50° E. and S. 50° W.
- 36.72 Trail bears N. 30° E. and S. 30° W.
- 40.05 Set a yellow sandstone $18 \times 12 \times 6$ ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $1 \times 1 \times 12$ ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.
- 43.57 Trail bears N. 30° E. and S. 30° W.
- 44.38 Wire fence on N.W. side of pasture, bears N. 30° E. and S. 30° W.; leave pasture.
- 44.65 Road from Cedar City by way of Castle to Holt's Ranch Enterprise and Hebron, bears N. 30° E. and S. 30° W.
- 46.55 Trail bears N. 20° E. and S. 20° W.
- 58.62 Trail bears N. 35° E. and S. 35° W.
- 66.50 Trail bears N. and S.
- 78.00 Enter dense sage undergrowth bears N. 10° E. and S. 20° W.; leave scattering sage and greasewood.
- 80.10 The cor. of secs. 22, 23, 26 and 27.
- Land, nearly level, gently sloping N. and N.E.
- Soil, sand and clay loams intermixed with fine gravel;
2nd. rate.
- No timber.
- Undergrowth, shrubbery and grasses afford fair grazing
- Dense undergrowth on W. 2.10 chs.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.	N., 0°1' W. bet. secs. 22 and 23; over nearly level land; through dense sage undergrowth.
40.00	Set a limestone 17x10x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
49.00	Leave dense sage and enter short thick greasewood bears N. 5° E. and S. 5° W.
50.55	Trail bears N. E. and S. W.
67.45	Trail bears N. E. and S. W.
80.00	Set a gray sandstone 15x10x6 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; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
$\frac{49}{31}$	Land, nearly level gently sloping N. Soil, loamy and clay with sprinkling of gravel; 1st. and 2nd. rate. No timber. Ground covered with undergrowth, shrubbery and grasses, which afford good grazing. Dense undergrowth on 49.00 chs. December 5, 1899: At this sec. cor., I set off 22° 24' 30" S. on the decl. arc; and, at 11h 49 ^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 40' N.
40.00	S. 89° 42' E., on a random line bet. secs. 14 and 23. Set temp. 1/4 sec. cor.
80.10	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 13, 14, 23 and 24, heretofore described. Thence I run N., 89° 41' W., on a true line bet. secs. 14 and 23. Over nearly level ground, through scattering sage and

Subdivisions of T.36 S.,R.16 W.-Continued.

- Chains. greasewood.
- 6.56 Trail bears N.30° E.and S.30° W.
- 17.30 Trail bears N.30° E.and S.30° W.
- 33.35 Trail bears N.40° E.and S.40° W.
- 38.40 Enter dense sage undergrowth bears S.20° W.,and N.10° E.;leave scattering greasewood and sage.
- 40.05 Set a yellow sandstone 14x10x5 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, N.of cor.
- 46.60 Enter scattering sage and greasewood bears N.40° E. and S.40° W.;leave dense sage.
- 47.05 Trail bears N.40° E.and S.40° W.
- 57.44 Trail bears N.25° E.and S.25° W.
- 67.29 Trail bears N.E.and S.W.
- 74.76 Trail bears N.E.and S.W.
- 80.10 The cor.of secs.14,15,22 and 23.
8.20
71.90
 Land nearly level,gently sloping N.
 Soil,clay and clay loam;2nd.and 1st.rate.
 No timber.
 The ground is covered with undergrowth,shrubby and grasses,which afford good grazing.
 Dense undergrowth on 8.20 chs.

- N.,001' W.,bet.secs.14 and 15.
 Over nearly level land,gently sloping N.;through, scattering sage undergrowth.
- 1.00 Enter dense sage undergrowth bears N.5° E.and S.5°W.; leave scattering sage.
- 25.00 Leave dense sage undergrowth bears N.E.and S.W.;enter scattering sage.
- 40.00 Set a yellow sandstone 15x8x4 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, W.of cor.

41.00 Enter dense sage undergrowth bears E.and W.;leave scattering sage.

46.60 Trail bears E.and W.

80.00 Set an iron stone 20x10x8 ins.,15 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;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor.

64/76

Land almost level,slightly descending to N.
Soil,clay and clay loam slightly intermixed with gravel;2nd.and 1st.rate.
No timber.
The ground is covered with undergrowth shrubbery and grasses,which afford good grazing.
Dense undergrowth on 64.00 chs.

December 5,1899:I set off 37°41' N.on the lat. arc;22°23'30" S.on the decl.arc;and,at 3h51mp.m.,1. m.t.,determine a true meridian with the solar at the cor.of secs.10,11,14 and 15,heretofore described.

Thence I run
S.,89°41' E.,on a random line bet.secs.11 and 14.

40.00 Set temp.1/4 sec.cor.

80.02 Intersect N.and S.line at the cor.of secs.11,12,13 and 14,heretofore described.

Thence I run
N.89°41' W.on a true line bet.secs.11 and 14.
Over nearly level ground,gently sloping N.;through medium dense sage and greasewood undergrowth.

40.01 Set a yellow sandstone 15x8x6 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;dug

1965

Subdivisions of T.36 S., R.16 W.-Continued.

Chains pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

41.57 Trail bears N.30° E. and S.30° W.

42.02 Enter dense sage undergrowth bears N.200 E. and S.200 W.; leave medium dense sage and greasewood.

80.02 The cor. of secs. 10, 11, 14 and 15.

Land nearly level, gently sloping to N.

Soil, sand and clay loams; 1st. rate.

No timber.

Ground covered with undergrowth, shrubbery and grasses which afford good grazing.

Dense undergrowth on 38.00 chs.

December 5, 1899.

N., 0° 1' W., bet. secs. 10 and 11.

Over nearly level land, slightly descending; through dense sage undergrowth.

23.50 Leave dense sage undergrowth and enter scattering sage and greasewood undergrowth bears S.30° W. and N.30° E.

35.90 Road bears S.85° W. and N.85° E.

36.50 Enter dense sage undergrowth bears N.15° E. and S.15° W.; leave scattering sage and greasewood.

40.00 Set a granite stone 16x8x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a granite stone 17x8x6 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; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, nearly level, gently sloping to N.

38.00
18.62

69
11

20
Subdivisions of T.36 S., R.16 W.-Continued.

Chains	Soil, clay loam slightly intermixed with fine gravel; 1st. and 2nd. rate. No timber. The ground is covered with undergrowth, shrubbery and grasses which afford good grazing. Dense undergrowth on 69.00 chs.
40.00	S., 89° 41' E. on a random line bet. secs. 2 and 11. Set temp. 1/4 sec. cor.
80.00	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 1, 2, 11 and 12, heretofore described. December 6, 1899: At this cor. of secs. 1, 2, 11 and 12, I set off 37° 42' N. on the lat. arc; 22° 51' S. on the decl. arc; and, at 9 ^h 51 ^m a.m., l.m.t., determine a true meridian with the solar; thence I run N., 89° 42' W. on a true line bet. secs. 2 and 11. Over nearly level land; through dense sage under- growth.
25.00	Leave dense sage undergrowth bears N. 30° W. and S. 30° E.; enter short thick greasewood.
40.00	Set a granite stone 16x8x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x 18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
42.50	Trail bears N. 25° E. and S. 25° W.
43.25	Enter dense sage undergrowth, bears S. 25° W., and N. 10° E.; leave short thick greasewood.
61.00	Enter tall dense greasewood bears N. and S.; continue in dense sage.
80.00	The cor. of secs. 2, 3, 10 and 11. Land nearly level, gently sloping N. Soil, sandy and clay loams slightly intermixed with fine gravel; 1st. and 2nd. rate. No timber.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. The ground is covered with undergrowth, shrubbery and grasses in sufficient quantity to insure good grazing.

Dense undergrowth on 61.75 chs.

From the cor. of secs. 2, 3, 10 and 11, already described, I run N. 0° 1' W., on a true line bet. secs. 2 and 3, knowing that a closing cor. will be necessary on the 7th. Standard Parallel South.

Over nearly level land, slightly descending; through dense sage and greasewood undergrowth.

40.00 Set a granite stone 18x12x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 At this point on line, December 6, 1899: I set off 22° 32' S. on the decl. arc; and, at 11^h 51^m a.m., l., m.t., observe the sun on the meridian; the resulting lat is 37° 43' N.

97.70 Road from Cedar City by way of Iron City and "The Castle", to Desert Springs and Modena, bears S. 50° E. and N. 50° W.

162.50 Intersect the 7th. Standard Parallel South, 21.76 chs. W. of the Standard cor. of secs. 34 and 35, T. 35 S., R. 16 W., which is a granite stone 10x6x8 ins. above ground, marked and witnessed as described by the Surveyor General.

Set an iron stone 18x12x6 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; dug pits, 24x18x12 ins. crosswise on each line, E. and W., 3 ft., and S. of stone, 7 ft. dist.; and raised a mound of

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains, earth, 4 ft. base, 2 ft. high, S. of cor.

Land nearly level gently sloping N.

Soil, sand and clay loams, slightly intermixed with gravel at intervals; 1st. and 2nd. rate.

No timber.

The ground is covered with undergrowth, shrubbery and grasses in sufficient quantity to make good grazing.

Dense undergrowth on 162.50 chs.

Having previously retraced the S. bdy. of the Tp., and finding the same irregular in bearing and defective in measurements on the W. 4 miles thereof, I establish Sectional Correction Line as follows:

December 6, 1899: I set off $37^{\circ}38'$ N. on the lat. arc; $22^{\circ}33'$ S. on the decl. arc; and, at 2^h51^mp.m., 1. m.t., determine a true meridian with the solar, at the cor. of secs. 26, 27, 34 and 35, heretofore described.

Thence I run

W., bet. secs. 27 and 34, on Sectional Correction Line. Descend over slightly rolling ground on N.W. slope adjoining foot hills; through medium dense sage undergrowth.

- 4.90 Trail bears N.E. and S.W. ; leave dense sage & enter scattering sage, bears N.E. and S.W.
- 7.66 Trail bears N. 30° E. and S. 30° W.
- 7.80 Wire fence on N.W. side of pasture enclosed and occupied by citizens of Holt's Ranch and Pinto, bears N. 30° E. and S. 30° W. Leave pasture and slope; thence over nearly level land, slightly rolling.
- 6.30 Road from Cedar City and Pinto by way of "Castle", to Holt's Ranch, Enterprise and Hebron, bears N. 30° E. and S. 30° W.
- 11.60 Trail bears N. 35° E. and S. 35° W.
- 21.60 Trail bears N. 40° E. and S. 40° W.
- 28.50 Enter dense sage undergrowth bears N. 40° E. and S. 40°

Subdivisions of T.36 S., R.16 W.-Continued.

Chains W.; leave scattering sage.

38.40 Trail bears N.100 W. and S.100 E.

40.00 Set a trachyte stone 16x10x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

46.26 Trail bears N.40° E. and S.40° W.

53.40 Leave dense sage undergrowth bears N.100 W. and S.100 E.; enters scattering sage.

55.20 Trail bears S.30° W. and N.30° E.

72.26 Trail bears N.50° E. and S.50° W.

80.00 Set a trachyte stone 15x12x6 ins., 10 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, marked with

29.80
50.80

1 notch on S. and 3 notches on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land on E., partly on N.W. slope and partly nearly level, slightly rolling; on the W. part the land is nearly level, gently sloping N. and N.E.

Soil, sandy and clay loams intermixed with gravel; 2nd. and 3rd. rate., with strips of 1st. rate land.

No timber.

The ground is covered with undergrowth, shrubbery or grasses which affords fair grazing.

Dense undergrowth on 29.80 chs.

W., bet. secs. 28 and 33, on Sectional Correction Line. Over slightly rolling land with general course of drainage to N.; through scattering sage and rabbit brush undergrowth.

12.48 Trail bears N.30° W. and S.30° E.

19.75 Trail bears N.100 E. and S.100 W.

20.21 Enter Mountain Meadow wash about 2 ft. deep, drains N.

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Subdivisions of T.36 S.,R.16 W.-Continued.

Chains	10° E.
24.96	Leave Mountain Meadow wash, and enter dense sage undergrowth, bears N.10° E. and S.10° W.; leave scattering sage and rabbit brush.
34.96	Trail bears N.60° E. and S.60° W.
40.00	Set a trachyte stone 15x10x5 ins., 10 ins. in the ground, 10 ins. in the ground , for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
43.60	Trail bears N.40° E. and S.40° W.
45.50	Irrigation ditch, now dry, 5 lks. wide and 2 ft. deep, drains N.40° E.
45.70	Picket fence bears N.40° E. and S.40° W.; leave dense undergrowth; enter Holt's Field; thence over level land, gently sloping N.
56.90	Picket fence on W. side of South extension of Holt's Field, bears N.45° W., and S.45° E. to S. end of field: about 10.00 chs. dist., thence turns N.E.; leave field.
60.90	Road from Holt's Ranch to the Field bears S.E. and N.W.
63.51	Trail bears N.W. and S.E.
68.20	Enter ploughed land, bears N.W. and S.E.
71.71	Leave ploughed ground, bears N.W. and S.E.
78.05	Road from Enterprise to Holt's stackyards and field bears S.30° W., and N.30° E. about 10.00 chs. to stackyards and entrance to field.
79.78	Fence on E. side of S.W. extension of field, bears N.30° E. and S.30° W.; enter field.
80.00	Set a trachyte stone 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 4 notches on E. and 1 notch on S. edges; dug pits 18 x 18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, sloping N.; slightly rolling on E. 1/2 mile.

2074
59.206

Subdivisions of T.36 S., R.16 W.-Continued.

Chains. Soil, sandy and clay loams intermixed with gravel; and very rich loam in field; 2nd. and 1st. rate.
 No timber.
 Undergrowth shrubbery and grasses on E. of field and between the S. and S.W. extensions, afford good grazing.
 Dense undergrowth on 20.74 chs.

December 6, 1899.

December 7, 1899: I set off $37^{\circ}38'$ N. on the lat. arc; $22^{\circ}37'$ S. on the decl. arc; and, at $8^{h}52^{m}$ a.m., l.m. t., determine a true meridian with the solar, at the cor. of secs. 28, 29, 32 and 33, already described; thence I run

W., bet. secs. 29 and 32, on Sectional Correction Line. Over nearly level land in field.

6.14 Fence on W. side of S.W. extension of Holt's field, bears $N.30^{\circ} W.$ and $S.30^{\circ} E.$ about E.00 chs., thence turns $N.30^{\circ} E.$; leave field and continue over level land cut with numerous trails at short intervals, running N.W. and S.E.

6.60 Road from St. George to Modena, bears $S.30^{\circ} E.$ and $N.30^{\circ} W.$

10.66 Main trail bears N.W. and S.E.

16.76 Main trail bears N.W. and S.E.

28.96 Main trail bears N.W. and S.E.

37.26 Main trail bears $N.20^{\circ} W.$ and $S.20^{\circ} E.$

40.00 Set a granite stone $15 \times 10 \times 6$ ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor. Enter dense sage undergrowth bears N. & S.

56.08 Main trail bears $N.40^{\circ} W.$ and $S.40^{\circ} E.$

66.96 Main trail bears $N.20^{\circ} W.$ and $S.20^{\circ} E.$

75.06 Trail bears $N.50^{\circ} W.$ and $S.50^{\circ} E.$

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.

- 76.00 Leave dense sage undergrowth bears N.10° E. and S. 10° W.; enter scattering sage.
- 80.00 Set a trachyte stone 15x11x7 ins., 10 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 5 notches on E. and 1 notch on S. edges; dug pits 18x 18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 1 1/2 ft. high, W. of cor. Land nearly level, sloping gently to N. Soil, rich clay and sandy loams; with very little gravel; 1st. rate. No timber. Undergrowth, shrubbery and grasses W. of field afford good grazing; good pasturage also in the field. Dense undergrowth on 36.00 chs.

W., bet. secs. 30 and 31, on Sectional Correction Line. Over nearly level ground; through scattering sage undergrowth.

- 11.04 Enter dense sage undergrowth bears N.10° E. and S.10° W.; leave scattering sage.
- 21.64 Trail bears N.E. about 2.00 chs., thence E., and S.E.
- 24.24 Road from St. George to Modena bears S.E. and N.W.
- 40.00 Set a trachyte stone 17x12x7 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x16x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 64.74 Trail bears S.50° E. and N.50° W.
- 60.30 Leave dense sage undergrowth bears S.30° W. and N. 30° E.; enter medium dense sage.
- 63.04 Intersect E. bdy. of Tp., at the cor. of secs. 25, 30, 31 and 36, heretofore described in Resurvey of E. bdy. of T.36 S., R.17 W., Book I.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains. Land nearly level, gently sloping N.
 Soil, sandy and clay loams; 1st. and 2nd. rate.
 No timber.
 Undergrowth, shrubbery and grasses cover the ground and make good grazing.
 Dense undergrowth on 69.26 chs.
 December 7, 1899: At this cor. of secs. 25, 30, 31 and 36, on W. bdy. of Tp., I set off $22^{\circ}38'30''$ S. on the decl. arc; and, at 11^h52^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $31^{\circ}38'$ N.

From the cor. of secs. 27, 28, 33 and 34, heretofore described, I run *bet sec 33 & 34* S., $00^{\circ}2'$ E., on a true line, knowing from previous re-tracement that a closing cor. will be necessary at intersection with S. bdy. of this Tp.
 Over nearly level land, slightly rolling, with course of drainage N. and N.W.; through scattering sage undergrowth.

- 9.08 Trail bears N. 50° E. and S. 50° W.
- 22.70 Trail bears N. 50° E. and S. 50° W.
- 38.10 Trail bears N. 30° W. and S. 30° E.
- 40.00 Set a trachyte stone 15x12x6 ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, W. of cor.
- 41.30 Enter dense sage undergrowth bears N.E. and S.W.; leave scattering sage.
- 50.72 Trail bears N.E. and S.W.
- 64.97 Mountain Meadow wash, 2.50 chs. wide and 10 ft. deep, drains N. 60° W. about 6.00 chs., thence N. 30° W.
- 71.40 Trail bears N. 50° E. and S. 50° W.
- 79.82 Intersect S. bdy. of Tp., N. $89^{\circ}52'$ E., 98 lks. dist. from

Subdivisions of T.36 S., R.16 W.-Continued.

Chains	<p>the old cor. of secs. 3, 4, 33 and 34, heretofore described in retracement of this bdy.</p> <p>Set a trachyte stone 16x8x6 ins., 11 ins. in the ground, for closing cor. of secs. 33 and 34, marked C.C. on N. with 3 grooves on E. and W. faces; dug pits 24x18x12 ins. crosswise on each line E. and W., 3 ft., and N. of stone 7 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high N. of cor.</p> <p>I destroy the marks on the old cor. of secs. 3, 4, 33 and 34, that pertain to secs. 33 and 34, and remark same for cor. of secs. 3 and 4, T.37 S., R.16 W., only.</p> <p>Land nearly level, slightly rolling with general course of drainage to N. and N.W.</p> <p>Soil, sand and clay loams mixed with fine gravel; 1st. and 2nd. rate.</p> <p>No timber.</p> <p>The ground is covered with undergrowth, shrubbery or grasses which afford good grazing.</p> <p>Dense undergrowth on 38.52 chs.</p>
14.50	<p>From the cor. of secs. 27, 28, 33 and 34, on Sectional Correction Line, heretofore described, I run N.00 2' W., bet. secs. 27 and 28 .</p> <p>Gradually descend over nearly level land; through scattering sage undergrowth.</p>
40.00	<p>Trail bears N.E. and S.W.</p> <p>Set a trachyte stone 15x8x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W of cor.</p>
46.86	<p>Trail bears N.E. and S.W.</p>
49.00	<p>Enter dense sage undergrowth bears W., and E. 4.00 chs. thence S.; leave scattering sage.</p>

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.

- 59.23 Trail bears N.50° E. and S.45° W.
- 80.00 Set a trachyte stone 18x10x8 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. and N.W. Soil, sandy and clay loams; 1st. rate. No timber. The ground is covered with shrubbery, undergrowth or grasses which afford good grazing. Dense undergrowth on 31.00 chs.
- December 7, 1899.

E., on a random line bet. secs. 22 and 27.

- 40.00 Set temp. 1/4 sec. cor.
- 80.04 Intersect N. and S. line, 33 lks. N. of the cor. of secs. 22, 23, 26 and 27, heretofore described. Thence I run N., 89° 46' W. on a true line bet. secs. 22 and 27. Over nearly level land; through dense sage undergrowth. Land cut with numerous trails running on general course Northeasterly and Southwesterly.
- 3.88 Main trail bears N.30° E. and S.30° W.
- 17.63 Main trail bears N.25° E. and S.25° W.
- 25.38 Main trail bears N.40° E. and S.40° W.
- 37.93 Main trail bears N. and S.
- 40.02 Set a sandstone 16x10x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 51.38 Trail bears N. and S.
- 69.50 Main trail bears N.50° E. and S.50° W.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

78.35 Trail bears N.and S.

80.04 The cor.of secs.21,22,27 and 28.

Land,nearly level sloping to N.,slightly rolling on W.1/2 mile.

Soil,sandy and clay loams intermixed with gravel;2nd. and 1st.rate.

No timber.

Ground covered with dense undergrowth,shrubby and grasses which afford good grazing.

Dense undergrowth on 80.04 chs.

N.0°2' W.bet.secs.21 and 22.

Over gently rolling land;through dense sage undergrowth.

3.00 Trail bears N.E.and S.W.

40.00 Set a trachyte stone 16x10x4 ins.,11 ins.in the ground,for 1/4 sec.cor.marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.

80.00 Set a trachyte stone 18x12x6 ins.,12 ins.in the ground,for cor.of secs.15,16,21 and 22,marked 36 S. on N.E.,and 16 W.on S.E.faces,with 3 notches on S. and E.edges;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft. high,W.of cor.

Land slightly rolling with general course of drainage N.E.,N.and N.W.

Soil,clay loam,slightly intermixed with gravel;1st. and 2nd.rate.

No timber.

Undergrowth,shrubby and grasses which cover the ground afford good grazing.
Dense undergrowth on 80.00 chs.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains S.89°46' E., on a random line bet. secs.15 and 22.

40.00 Set temp. I/4 sec. cor.

80.10 Intersect N. and S. line at the cor. of secs. 14, 15, 22 and 23, heretofore described.

Thence I run

N., 89°46' W. on a true line bet. secs. 15 and 22.

Over slightly rolling land; through scattering sage undergrowth.

2.75 Enter dense sage undergrowth bears N. and S.; leave scattering sage.

40.05 Set a trachyte stone 16x10x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

71.60 Trail bears N. and S.

80.10 The cor. of secs. 15, 16, 21 and 22.

Land slightly rolling with course of drainage to N. and N.W.

Soil, clay loam intermixed with fine gravel; 1st. and 2nd. rate.

No timber.

Undergrowth, shrubbery and grasses afford good grazing.

Dense undergrowth on 77.35 chs.

December 8, 1899: At this cor. of secs. 15, 16, 21 and 22, I set off 22°45' S. on the decl. arc; and, at 11^h52^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37°40' " N.

N., 0°2' W., bet. secs. 15 and 16.

Over land almost level, slightly rolling with course of drainage to N. and N.E.; through dense sage undergrowth.

32

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.	
37.00	Trail bears E. and W.
40.00	Set a granite stone 15x8x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
40.60	Leave dense sage undergrowth bears S. 30° W. and N. E.; enter scattering sage.
46.89	Trail bears S. 40° W. and N. 40° E.
70.40	Trail bears S. 50° W. and N. 70° E.
80.00	Set a trachyte stone 16x8x7 ins., 11 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, nearly level, slightly rolling, sloping N. and N. E.
	Soil, clay loam, slightly intermixed with gravel; 1st. and 2nd. rate.
	No timber.
	Undergrowth, shrubbery and grasses afford good grazing.
	Dense undergrowth on 40.60 chs.
S., 89° 46' E. on a random line bet. secs. 10 and 15.	
40.00	Set temp. 1/4 sec. cor.
79.98	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 10, 11, 14 and 15, heretofore described.
	Thence I run
	N., 89° 45' W., on a true line bet. secs. 10 and 15.
	Over slightly rolling land; through dense sage undergrowth.
7.08	Trail bears S. 50° W. and N. 50° E.

49.40
 39.40

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

39.99 Set a yellow sandstone 14x8x6 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.

75.50 Leave dense sage undergrowth bears N.and S.;enter short dense greasewood and scattering sage undergrowth.

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

Land nearly level,slightly rolling with course of drainage to N.and N.E.

7530
4.48

Soil,clay loam;1st.rate .

No timber.

The ground is covered with dense undergrowth,shrubbery and grasses,which afford fair grazing.

Dense undergrowth on 75.50 chs.

December 8,1899:I set off 37°41' N.on the lat.arc;22°43' S.on the decl.arc;and,at 3h52^m p.m., l.m.t.,determine a true meridian with the solar,at the cor.of secs.9,10,15 and 16,heretofore described.

Thence I run

N.,0°2' W.,bet.secs.9 and 10.

Over nearly level ground,gradually descending;through medium dense greasewood undergrowth and scattering sage.

16.18 Old road bears N. E.and S W.

29.75 Trail bears N. E.and S. W.

40.00 Set a granite stone 18x18x6 ins.,12 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.

74.20 Trail bears N.40°E.and S.40° W.

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Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

80.00 Set a trachyte stone 18x12x6 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land nearly level, gently sloping N. and N.E.
Soil, clay loam; 1st. rate.
Medium dense undergrowth with shrubbery and grasses covering the ground make good grazing.
No timber.

December 8, 1899.

S. 89°45' E. on a random line bet. secs. 3 and 10.
40.00 Set temp. 1/4 sec. cor.
80.06 Intersect N. and S. line, at the cor. of secs. 2, 3, 10 and 11, heretofore described.
Thence I run
N. 89°45' W., on a true line bet. secs. 3 and 10.
Over nearly level land; through dense sage and greasewood undergrowth.
40.03 Set a trachyte stone 15x10x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
64.90 Wash 8 lks. wide and 2 ft. deep, drains N.
71.00 Enter medium dense greasewood undergrowth bears N. and S.; leave dense greasewood and sage undergrowth.
80.06 The cor. of secs. 3, 4, 9 and 10.
7100
1905
Land nearly level, slightly rolling, with course of drainage to N.
Soil, clay and clay loam slightly intermixed with gravel; 2nd. and 1st. rate.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.No timber.

Undergrowth, shrubbery and grasses cover the ground and make good grazing.

Dense undergrowth on 71.00 chs.

December 9, 1899: I set off 37°42' N. on the lat. arc; 22°50' S. on the decl. arc; and, at 10^h a.m., l.m. t., determine a true meridian with the solar, at the cor. of secs. 3, 4, 9 and 10, heretofore described.

Thence I run

N., 0°2' W., on a true line bet. secs. 3 and 4, knowing that a closing cor. will be necessary on the 7th.

Standard Parallel South.

Very gradual descent, over nearly level ground; through medium dense greasewood undergrowth.

- 9.50 Trail bears S.40° E. and N.40° W.
- 37.15 Trail bears N.20° E. and S.20° W.
- 40.00 Set a granite stone 17x8x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18 x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 50.00 Leave medium dense greasewood bears S.40° W. and N. 40° E.; enter scattering sage and greasewood.
- 72.06 Trail bears N.35° E. and S.35° W.
- 92.25 Enter dense greasewood and sage undergrowth bears E. and W.; leave scattering greasewood and sage.
- 110.40 Trail bears N.25° E. and S.25° W.
- 137.20 Road from Cedar City by way of Iron City to Desert Springs and Modena, bears S.50° E. and N.50° W.
- 162.46 Intersect the 7th. Standard Parallel South 22.00 chs. W. of the standard cor. of secs. 33 and 34, T.35 S., R.16 W., which is a granite stone 6x5x5 ins. above ground, marked and witnessed as described by the Surveyor General.

76.21
93.35

36

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. Set a yellow sandstone 15x12x6 ins., 10 ins. in the ground, for closing cor. of secs. 3 and 4, marked C.C. on S., with 3 grooves on E. and W. faces; dug pits 24x18x12 ins., crosswise on each line, E. and W., 3 ft., and S. of stone, 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land nearly level, gently sloping N. and N.E.

Soil, clay intermixed with gravel and clay loam; 2nd. and 1st. rate.

No timber.

Undergrowth, shrubbery and grasses cover the ground and afford good grazing.

Dense undergrowth on 70.21 chains.

December 9, 1899: At this closing cor., I set off 22050' 30" S. on the decl. arc; and, at 11^h 53^m a.m., 1.m. t., the sky is suddenly overcast, and I am unable to make latitude observation.

From the cor. of secs. 28, 29, 32 and 33, on Sectional Correction Line, heretofore described, I run S., 003' E. on a true line bet. secs. 32 and 33, knowing from previous retracement of S. bdy. of this Tp., that a closing cor. will be necessary.

Over nearly level land, on very gradual ascent.

1.80 Wire fence bears N. 45° E., and S. 45° W., about 5.00 chs., thence turns N.W.; leave Holt's pasture and field.

1.85 Road from Enterprise to Holt's stacks and field, bears S.W. and N.E.

3.00 Enter dense sage undergrowth, bears N.E. and S.W.

7.20 Road from St. George to Modena bears N. 55° W. and S. 55° E.

8.55 Trail bears N. 55° W. and S. 55° E.; thence crossing trails at short intervals, and running on same gen-

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains 15.30 19.40 24.65 40.00 61.40 70.20 79.98

eral course Northwesterly and Southeasterly.

Main trail bears N.70° W.and S.70° E.

Road bears S.70° W.and N.70° E.

Main trail bears S.25° E.and N.25° W.

Set a volcanic stone 14x10x6 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.

Main trail bears S.40° E.and N.40° W.

Main trail bears S.40° E.and N.40° W.

Intersect S.bdy.of Tp.,3.16 chs.,N.89°46' E.,from the old cor.of secs.4,5,32 and 33,heretofore described in Notes of retracement of this bdy.

Set a gray granite stone 12x10x6 ins.,8 ins.in the ground,for closing cor.of secs.32 and 33,marked C.C. on N.with 4 grooves on E.and 2 grooves on W.faces; dug pits 24x18x12 ins.crosswise on each line E.and W.,3 ft.,and N.of stone 7 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high N.of cor.

I destroy the marks on the old cor.of secs.4 and 5, that pertain to secs.32 and 33,and re-mark same for cor.of secs.4 and 5,T.37 S.,R.16 W.,only.

Land nearly level,slightly rolling on S.1/2 mile, with general course of drainage to N.and N.W.

Soil,clay loam intermixed with gravel;1st.and 2nd. rate.

No timber.

Undergrowth,shrubby or grasses cover the ground, and make good grazing.

Dense undergrowth on 76.98 chs.

76.98
300

38
Subdivisions of T.36 S., R.16 W.-Continued.

Chains. From the cor. of secs. 28, 29, 32 and 33, on Sectional Correction Line, already described, J run N. 00° 3' W., bet. secs. 28 and 29. Over nearly level pasture and field land, on very gradual descent.

10.00 Stackyards and sheds covering about 16 square rods, bears E. about 6.00 chs. dist. from line.

34.55 Wire division fence bears N. 40° E. and S. 55° W.; leave pasture and farming land and enter "Big Pasture".

40.00 Set a trachyte stone 15x8x6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

46.00 Stackyards and sheds covering about 16 square rods bears E. about 10.00 chs. dist. from line.

48.00 Reservoir about 1.50 chs. wide and 2.00 chs. long, bears E. about 8.00 chs. dist. from line.

63.50 Irrigation ditch running from reservoir about 2 lks. wide and 1 ft. deep, drains N. 20° W.

80.00 Set a granite stone 20x8x8 ins., 15 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. The cor. is in Holt's "Big Pasture", on N.E. side of same.

Land nearly level, gently sloping N.W. and W. Soil, rich sandy and clay loams; 1st. rate; and produces good crops of grain, vegetables hay and grasses. Land enclosed and occupied by Holt Brothers of Holt's Ranch, and used for farming and grazing purposes.

December 9, 1899.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.	E., on a random line bet. secs. 21 and 28.
40.00	Set temp. I/4 sec. cor.
80.06	Intersect N. and S. line 27 lks., S. of the cor. of secs. 20, 21, 28 and 29, heretofore described. Thence I run S. 89° 48' W., on a true line bet. secs. 21 and 28. Over slightly rolling land; through dense sage undergrowth.
2.00	Trail bears N. 40° E. and S. 40° W.
27.35	Leave dense sage bears N. 30° W. and S. 30° E.
31.55	Trail bears N. W. and S. E.
34.45	Enter dense sage undergrowth bears N. 30° E. and S. 30° W.
36.95	Wash 10 lks. wide and 2 ft. deep drains N. 40° W.; thence over level land; leave rolling land.
39.85	Wash 12 lks. wide and 3 ft. deep, drains N. 40° W. ;
40.03	Set a trachyte stone 15x8x5 ins. 10 ins. in the ground for 1/2 sec. cor., marked 1/2 on N. face; dug pits 18x18x12 ins. E. & W. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of corner.
44.95	Trail bears S. 40° W. and N. 40° E.
58.35	Leave dense sage undergrowth bears N. and S.; enter medium dense sage.
59.70	Trail bears N. and S.; thence over land cut with numerous trails running on general course Northwesterly and Southeasterly.
70.20	Main trail bears N. 40° W. and S. 40° E.
77.24	Trail bears N. 20° W. and S. 20° E.
77.90	Wire fence on N. E. side of Holt's Big Pasture, bears N. 35° W. about 25.00 chs. , and S. 35° E.; enter pasture.
80.06	The cor. of secs. 20, 21, 28 and 29. Land rolling on E. and nearly level on W., with general course of drainage to N. and N. W. Soil, on E. 1/2 mile clay loam and gravelly; 2nd. rate; on W. 1/2 mile, sandy and clay loams; 1st. rate. Undergrowth or shrubbery and grasses cover the ground and afford good grazing. No timber. Dense undergrowth on 58.35 chs.

58.35
31.71

40

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.	N.0°3' W., bet. secs. 20 and 21; gradually descending over level land, in Holt's Big Pasture.
4.60	Wire fence on N.E. side of pasture bears S.35° E. and N.35° W. about 15.00 chs.; leave pasture; enter short dense greasewood.
4.85	Trail bears N.35° W. and S.35° E.
11.00	Trail bears N.35° W. and S.35° E.
40.00	Set a volcanic stone 20x15x10 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W' of cor.
79.75	Trail bears N.15° W. and S.15° E.
80.00	Set a granite stone 15x10x6 ins., 10 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping to N. Soil, rich clay and sandy loams; 1st. rate. No timber. Undergrowth, scrubbery and grasses cover the ground and make good grazing.
	N., 89°48' E. on a random line bet. secs. 16 and 21.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect N. and S. line 15 lks., S. of the cor. of secs. 15, 16, 21 and 22, heretofore described. Then I run S., 89°42' W., on a true line bet. secs. 16 and 21. Through dense sage undergrowth, over slightly rolling ground.
18.00	Enter short dense greasewood and scattering sage, bears N. and S. 30° W.; leave dense sage.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains.

- 19.42 Trail bears N.25° E. and S.25° W.
- 24.60 Wash 6 lks. wide and 3 ft. deep, drains N.30° E.
Leave rolling ground; and thence over level ground .
- 40.10 Set a trachyte stone 16x10x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 55.40 Wash 12 lks. wide and 3 ft. deep, drains N.20° E.
- 56.82 Trail bears N. and S.
- 65.10 Trail bears N.15° E. and S.15° W.
- 70.00 Wash 10 lks. wide and 3 ft. deep, drains N.15° E.
- 71.74 Trail bears N.30° E. and S.30° W.
- 80.20 The cor. of secs. 16, 17, 20 and 21.
Land rolling on E. and level on W. with gentle slope to N. and N.E.
Soil, clay loam; 1st. rate.
No timber.
Ground covered with undergrowth, shrubbery and grasses which afford good grazing. Dense undergrowth on 18.00 chs.
December 11, 1899: At this cor. of secs. 16, 17, 20 and 21, I set off 2301' S. on the decl. arc; and, at 11h53m, a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37°40' N.
- N., 0°3' W. bet. secs. 16 and 17
Over level land; through medium dense greasewood.
- 8.00 Enter low sandknolls bears N.E. and S.W.; thence over rolling land.
- 15.00 Leave low sand knolls bears N.E. and S.W.; thence over level land.
- 27.80 Trail bears E. and W.
- 34.00 Trail bears N.50° E. and S.50° W.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains:

- 40.00 Set a volcanic stone 15x12x6 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.
- 40.87 Trail bears N.55° W.and S.55° E.
- 45.06 Trail bears N.W.and S.E.
- 54.70 Trail bears N.40° W.and S.40°E.
- 79.60 Enter dense sage undergrowth bears N.40° E.and S.40° W.;leave medium dense greasewood.
- 80.00 Set a yellow sandstone 15x14x6 ins.,10 ins.in the ground,for cor.of secs.8,9,16 and 17,marked with 4 notches on S.and E.edges;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor.
- Land mostly nearly level gently sloping N.and N.E., with narrow range of low rolling sandknolls crossing the S.1/4 mile.
- Soil,clay loam and sandy;1st.and 2nd.rate.
- No timber.
- Ground covered with undergrowth,shrubbery and grasses,which afford good grazing.

N.,89°42' E.on a random line bet.secs.9 and 16.

- 40.00 Set temp.1/4 sec.cor.,
- 80.18 Intersect N.and S.line ,8 lks.S.of the cor.of secs. 10,9,16 and 15,heretofore described.

Thence I run

S.89°39' W.,on a true line bet.secs.9 and 16.

Over level land;through short dense greasewood and scattering sage undergrowth.

- 16.50 Trail bears N.and S.
- 20.18 Enter dense sage undergrowth bears N.15° E.and S.15°

Subdivisions of T.36 S.,R.16 W.-Continued.

- Chains W.;leave greasewood and scattering sage.
 - 33.73 Road from Cedar and Modena road to Harris' Well, bears N.30° E.and S.30° W.
 - 38.18 Harris' Well with watering troughs windlass etc., bears S.8.00 chs.dist.from line.
 - 40.09 Set a volcanic stone 16x10x6 ins.,11 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, N.of cor.
 - 40.85 Trail bears N.25° E.and S.25° W.
 - 50.11 Trail bears N.25° E.and S.25° W.
 - 61.88 Trail bears N.30° E.and S.30° W.
 - 76.18 Trail bears N.30° E.and S.30° W.
 - 80.18 The cor.of secs.8,9,16 and 17.
- Land nearly level,gently sloping N.and N.E.
Soil,sandy and clay loams;1st.rate.
No timber.
Dense undergrowth,shrubby and grasses cover the ground and make good grazing.
Dense undergrowth on 60.00 chs.

60/30 16

December 11,1899:I set off 37°41' N.on the lat.arc;22°59'30"S.on the decl.arc;and,at 4^h p.m.,1. m.t.,determine a true meridian with the solar,at the cor.of secs.8,9,16 and 19,heretofore described.

Thence I run N.0°3' W.,bet.secs.,8 and 9;over nearly level land, on very gradual descent;through dense sage undergrowth.

- 10.60 Trail bears N.25° E.and S.25° W.
- 40.00 Set a volcanic stone 14x8x6 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a

44
Subdivisions of T.36 S., R.16 W.-Continued.

Chains mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 Leave dense sage undergrowth and enter medium dense
 sage, bears N.30° W. and S.30° E.

47.65 Trail bears N.30° W. and S.30° E.

48.00 Enter low rolling sandknolls about 15.00 chs. long
 N.W. and S.E., bears N.30° W. and S.30° E.; leave level
 land.

52.40 Leave sandknolls bears N.30° W. and S.30° E.; thence
 over level land.
 Enter dense sage undergrowth bears N.30° W. and S.30°
 E.; leave medium dense sage.

62.90 Trail bears N.25° E. and S.25° W.

80.00 Set a volcanic stone 16x12x8 ins., 11 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; dug pits 18x
 18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a
 mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land nearly level gently sloping N., with narrow
 range of rolling sand knolls crossing central part.
 Soil, mostly clay loam with very little sandy soil;
 1st. and 2nd. rate.
 No timber.
 Undergrowth, shrubbery and grasses cover the ground
 and make good grazing.

December 11, 1899.

✓
 N. 89° 39' E. on a random line bet. secs. 4 and 9.

40.00 Set temp. 1/4 sec. cor.

80.20 Intersect N. and S. line, 2 lks. N. of the cor. of secs.
 3, 4, 9 and 10, heretofore described.
 Thence I run
 S. 89° 40' W. on a true line bet. secs. 4 and 9.
 Over nearly level land; through short dense grease-
 wood undergrowth.

Subdivisions of T.36 S., R.16 W. -Continued.

Chains.

- 10.42 Trail bears N.25° E. and S.25° W.
- 28.80 Trail bears N. and S.
- 33.20 Enter scattering sage undergrowth bears N.30° E. and S.30° W.; leave greasewood.
- 40.10 Set a porphyry stone 14x12x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 41.20 Trail bears N.10° W. and S.10° E.
- 50.20 Enter dense sage undergrowth bears N.40° E. and S.45° W.; leave scattering sage.
- 80.20 The cor. of secs. 4, 5, 8 and 9.
 Land nearly level, gently sloping to N.
 Soil, rich sandy and clay loams; 1st. rate.
 No timber.
 Dense undergrowth, shrubbery and grasses cover the ground and make good grazing.
 Dense undergrowth on 30.00 chs.

30.20
30.

December 12, 1899: I set off 37° 42' N. on the lat. arc; 23° 05' S. on the decl. arc; and, at 10^h a.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 4, 5, 8 and 9, heretofore described.

Thence I run

N. 0° 3' W. on a true line bet. secs. 4 and 5, knowing that a closing cor. will be necessary at intersection with the 7th. Standard Parallel South.

Over nearly level ground, slightly rolling; through dense sage undergrowth.

10.50 Trail bears N.5° E. and S.20° W.

40.00 Set a granite stone 17x8x3 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug

Subdivisions of T.36 S., R.16 W. -Continued.

Chains, pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

70.70 Trail bears N. 50° W. and S. 50° E.

-162.68 Intersect the 7th. Standard Parallel South, 22.36 chs. W. of the old standard cor. of secs. 32 and 33, T. 35 S.

R. 16 W., which is a granite stone 9x7x6 ins. above ground, marked and witnessed as described by the Surveyor General.

Set a trachyte stone 18x14x6 ins., 12 ins. in the ground, for closing cor. of secs. 4 and 5, marked C.C. on S., with 4 grooves on E. and 2 grooves on W. faces; dug pits, 24x18x12 ins., crosswise on each line E. and W., 3 ft., and S. of stone, 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land slightly rolling and falling gently to N.

Soil, sandy and clay loams with with streaks of gravel; 1st. and 2nd. rate.

No timber.

The ground is covered with undergrowth, shrubbery and grasses which afford fair grazing.

Dense undergrowth on 162.68 chs.

December 12, 1899: At this closing sec. cor., I set off 23° 5' 30" S., on the decl. arc; and, at 11h 54^m, a.m., 1.m.t., observe the sun on the meridian; the resulting lat. is 37° 43' N.

From the cor. of secs. 29, 30, 31 and 32, on Sectional Correction Line, heretofore described, I run S., 0° 3' E., on a true line bet. secs. 31 and 32, knowing from previous retracement of the S. bdy. of this Tp. that a closing cor. will be necessary.

Over nearly level land, slightly rolling; through

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains scattering sage undergrowth.

6.90 Enter dense sage undergrowth bears N.35° E.and S. 35° W.;leave scattering sage.

10.75 Trail bears N.25° W.and S.25° E.

19.30 Road from St.George to Modena bears S.65° E.and N. 65° W.

40.00 Set a volcanic stone 15x8x6 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x. 18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,W.of cor.

68.35 Trail bears S.65° E.and N.65° W.

71.00 About 3.00 chs.E.of line is location of the State Experiment well,where preparations are being make for sinking for artesian water.

79.92 Intersect S.bdy.of Tp.,4.II chs.,N.89°56' E.from the old cor.of secs.5,6,31 and 32,heretofore described in Notes of retracement of this bdy.

Set a granite stone 15x12x6 ins.,10 ins.in the ground for closing cor.of secs.31 and 32,marked C.C.on N., with 5 grooves on E.and 1 groove on W.faces;dug pits 24x18x12 ins.,crosswise on each line,E.and W.,3 ft., and N.of stone,7 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,N.of cor.

I destroy the marks on the old cor.of secs.5,6,31 and 32,that pertain to secs.31 and 32,and remark same for cor.of secs.5&6, T.37 S.,R.16 W.,only.

Land slightly rolling with general course of drainage to N.and N.W.

Soil,sandy and loamy;2nd.and 1st.rate.

No timber.

Undergrowth,shrubbery and grasses cover the ground, and afford fair grazing.

Dense undergrowth on 73.00 chs.

3/6 1/2

Subdivisions of T.36 S., R.16 W.-Continued.

Chains. From the cor. of secs. 29, 30, 31 and 32, on Sectional Correction Line, already described, I run N., 0°3' W., bet. secs. 29 and 30.

Gradually descending over nearly level land; through medium dense sage undergrowth, crossing numerous trails.

- 1.55 Main trail bears N. 40° W. and S. 40° E.
 22.70 Main trail bears N. 30° W. and S. 30° E.
 40.00 Set a granite stone 14x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 46.25 Main trail bears N. 35° W. and S. 35° E.
 58.14 Main trail bears N. 55° W. and S. 55° E.
 70.00 Enter dense sage undergrowth bears N. 35° E. and S. 35° W.; leave medium dense sage.
 80.00 Set a granite stone 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on S. and 5 notches on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land slightly rolling, falling gently to N. and N.E. Soil, rich sand and clay loams; 1st. rate.
 No timber.
 Undergrowth, shrubbery and grasses covers the ground and make good grazing.
 Dense undergrowth on 10.00 chs.

December 12, 1899.

E., on a random line bet. secs. 20 and 29.

- 40.00 Set temp. 1/4 sec. cor.
 79.94 Intersect N. and S. line, 18 lks. N. of the cor. of secs. 20, 21, 28 and 29, heretofore described.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains Thence I run
N.,89°52' W.,on a true line bet.secs.20 and 29.
Over nearly level land in Holt's Big Pasture.

5.30 Irrigation ditch,2 lks.wide and 1 ft.deep,running
from Holt's Reservoir,drains N.20° W..

15.70 Old road bears S.25° E.and N.25° W.

22.77 Wire fence on W.side of pasture bears S.30° W.about
30.00 chs.,thence turns S.E.;and N.30° E.abdut 20.00
chs.,thence S.E.;leave pasture;enter short thick
greasewood.

23.39 Trail bears N.40° E.and S.40° W.;thence crossing
numerous trails all along the line at short inter-
vals.

32.82 Road from St.George to Modena,bears S.5° E.and N.
10° W.

39.50 Main trail bears S.E.and N.W.

39.97 Set a limestone 16x8x6 ins.,11 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x
18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.

48.05 Main trail bears N.20° W.and S.20° E.

56.90 Main trail bears N.35° W.and S.35° E.

66.80 Enter dense sage undergrowth bears N.and S.;leave
greasewood.

74.80 Trail bears N.60° W.and S.60° E.

79.94 The cor.of secs.19,20,29 and 30.
Land nearly level,gently sloping to N.
Soil,rich sandy and clay loams;1st.rate.
No timber.
Undergrowth and shrubbery cover the ground W.of pastu-
ture,and good grass in pasture,making excellent graz-
ing.
Dense undergrowth on 13.14 chs.

1314
6680

30

Subdivisions of T.36 S., R.16 W.-Continued.

Chains	W., on a random line bet. secs. 19 and 30.
40.00	Set temp. 1/4 sec. cor.
82.95	Intersect W. bdy. of Tp., 18 lks. S. of the cor. of secs. 25, 30, 19 and 24, heretofore described in Resurvey of this bdy. December 13, 1899: At this cor., I set off 370 ³⁹ ' N. on the lat. arc; 230 ⁹ ' S. on the decl. arc; and at 10 ^h a.m., l.m.t., determine a true meridian with the solar; thence I run S. 89 ⁰⁵² ' E. on a true line bet. secs. 19 and 30. Over nearly level land, slightly rolling; through dense sage and rabbit brush undergrowth.
I.25	Trail bears N.W. and S.E.
II.23	Trail bears S. 75 ⁰ E. and N. 80 ⁰ W.
36.18	Trail bears N. 20 ⁰ W. and S. 20 ⁰ E.
42.93	Set a lime stone 16x12x8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
47.13	Trail bears N.W. and S.E.
69.23	Trail bears N. 65 ⁰ W. and S. 65 ⁰ E.
80.33	Trail bears N. 60 ⁰ W. and S. 60 ⁰ E.
82.93	The cor. of secs. 19, 20, 29 and 30. Land nearly level, but slightly rolling with course of drainage to N. and N.E. Soil, sand and clay loams; 1st. rate. No timber. Undergrowth, shrubbery and grasses cover the ground and afford good grazing. Dense undergrowth on 82.93 chains.

N. 00³' W., bet. secs. 19 and 20.

Over nearly level land, through dense sage under-

A-285
51.97

Subdivisions of T.36 S., R.16 W.-Continued.

Chains. undergrowth.

- 2.45 Trail bears N.50° W. and S.50° E.
- 23.40 Trail bears N.40° W. and S.40° E.
- 35.60 Trail bears N.W. and S.E.
- 40.00 Set a granite stone 14x10x6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- December 13, 1899: At this 1/4 sec. cor., I set off 23°10' S., on the decl. arc; and at 11h54m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37°39' N.
- 46.85 Trail bears N.40° W. and S.40° E.
- 52.50 Trail bears N.W. and S.E.
- 70.30 Trail bears N.W. and S.E.
- 80.00 Set an iron stone 17x10x5 ins., 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land nearly level, slightly rolling and falling gently to N. and N.E.
- Soil, rich clay and sandy loams; 1st. rate on S. 70.00 chs.; slightly intermixed with gravel on N. 30.00 chs.; and 2nd. rate.
- No timber.
- Undergrowth, shrubbery and grasses afford good grazing
- Dense undergrowth on 80.00 chs.

S. 89°52' E. on a random line bet: secs. 17 and 20.

- 40.00 Set temp. 1/4 sec. cor.
- 80.16 Intersect N. and S. line, 17 lks. N. of the cor. of secs. 16, 17, 20 and 21, heretofore described.
- Thence I run

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.	N.89°45' W.on a true line bet.secs.17 and 20. Over nearly level land,gently sloping to N.;through scattering greasewood undergrowth.
14.16	Enter short dense greasewood bears N.and S.;leave scattering greasewood.
25.88	Trail bears N.W.and S.E.
37.16	Enter dense sage undergrowth bears N.and S.;leave short greasewood.
40.08	Set an iron stone 16x10x6 ins.,11 ins .in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high N.of cor.
51.16	Road from St.George to Modena bears S.E.and N.W.
55.03	Trail bears S.E.and N.W.
70.01	Trail bears S.50° E.and N.50° W.
80.16	The cor.of secs.17,18,19 and 20. Land nearly level,gently sloping N.and N.E. Soil,Sandy and clay loams;1st.rate. No timber. Undergrowth,shrubby and grasses cover the ground and make good grazing. Dense undergrowth on 43.00 chs.
40.00	N.,89°52' W.on a random line bet.secs.18 and 19. Set temp.1/4 sec.cor.
82.94	Intersect W.bdy.of Tp.,2 lks.,N.of the cor.of secs. 13,18,19 and 24,heretofore described in the Resurvey of this bdy. Thence I run S.,89°53' E.,on a true line bet.secs.18 and 19. Over slightly rolling ground with general course of drainage to N.and N.E.;through dense sage undergrowth
10.53	Trail bears N.55° W.and S.55° E.

53
99
Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

- 17.73 Shoal Creek wash 40 lks.wide and 8 ft.deep,drains N.5° E.
- 23.94 Trail bears N.55° W.and S.55° E.
- 36.69 Trail bears N.50° W.and S.50° E.
- 42.29 Trail bears N.W.and S.E.
- 42.94 Set a volcanic stone 12x10x6 ins.,8 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
- 50.02 Trail bears N.W.and S.E.
- 66.89 Trail bears N.35° W.and S.35° E.
- 82.94 The cor.of secs.17,18,19 and 20.

Land slightly rolling on W.1/2 mile and nearly level land on the E.1/2 mile with general course of drainage to N.and N.E.

Soil,sandy and clay loams;slightly intermixed with gravel in streaks;1st.and 2nd.rate.

No timber.

Undergrowth,shrubbery and grasses cover the ground and make excellent grazing.

Dense undergrowth on 82.94 chs.

December 13,1899.

December 14,1899:I set off 37°40' N.on the lat.arc;23°13' S.on the decl.arc;and,at 10^h a.m.,1. m.t.,determine a true meridian with the solar,at the cor.of secs.17,18,19 and 20,heretofore described.

Thence I run

N.,0°3' W.,bet.secs.17 and 18.

Gradually descending over slightly rolling ground; through dense sage undergrowth.

- 13.55 Trail bears N.W.and S.E.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.

22.40 Trail bears N.W.and S.E.
 40.00 Set a trachyte stone 14x10x4 ins.,10 ins.,in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, W.of cor.

59.12 Trail bears N.W.and S.E.

64.90 Road from St.George to Modena,bears N.30° W.and S. 35° E.

80.00 Set a red granite stone 18x8x6 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;dug pits 18x 18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.,high W.of cor.

Land,slightly rolling with course of drainage to N. and N.E.

Soil,clay and sandy loams slightly intermixed with gravel in parts;1st.and 2nd.rate.

No timber.

Undergrowth,shrubby and grasses cover the ground, and make good grazing.

Dense undergrowth on 80.00 chs.

S.,89°45' E.,on a random line bet.secs.8 and 17.

40.00 Set temp.1/4 sec.cor.

80.20 Intersect N.and S.line 6 lks.S.of the cor.of secs. 8,9,16 and 17,heretofore described.

Thence I run

N.89°48' W.,on a true line bet.secs.8 and 17.

Over nearly level ground;throughdense sage undergrowth.

14.20 Trail bears N.60° W.and S.60° E.

Subdivisions of T.36 S., R.16 W.-Continued.

Chains

- 27.65 Trail bears N.50° W. and S.50° E..
- 40.10 Set a volcanic stone, 16x8x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N' of cor.
- 43.75 Trail bears N.50° W. and S.50° E.
- 56.00 Trail bears N.W. and S.E.
- 63.35 Trail bears N.75° W. and S.75° E.
- 80.20 The cor. of secs. 7, 8, 17 and 18.
 Land nearly level gently sloping N. and N.E., and slightly rolling on W. 1/2 mile.
 Soil, rich sandy and clay loams; 1st. rate.
 No timber.
 Undergrowth, shrubbery and grasses cover the ground and make good grazing.
 Dense undergrowth on 80.20 chs.

N., 89° 53' W. on a random line bet. secs. 7 and 18.

40.00 Set temp. 1/4 sec. cor.

82.96 Intersect W. bdy. of Tp., 13 lks. S. of the cor. of secs. 7, 12, 13 and 18, heretofore described in Notes of Re-survey of this bdy.

December 14, 1899: At this cor., I set off 23° 13' 30" S. on the decl. arc; and, at 11^h 55^m a.m., l.m.t., observe the sun on the meridian; the resulting lat is 37° 41' N.

Thence I run S. 89° 47' E., on a true line bet. secs. 7 and 18.

Over slightly rolling land; through medium dense sage and rabbit brush undergrowth.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains.	
29.76	Trail bears N.W. and S.E. Enter dense sage and rabbit brush undergrowth bears N.W. and S.E.; leave medium dense sage and rabbit brush.
35.00	Shoal Creek wash 40 lks. wide and 8 ft. deep, drains N.20° E.
42.96	Set a trachyte stone 15x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
63.46	Trail bears N.W. and S.E.
78.94	Road from St. George to Modena bears S.30° E. and N.30° W.
82.96	The cor. of secs. 7, 8, 17 and 18. Land slightly rolling with course of drainage to N.E. Soil, sandy and clay loams slightly intermixed with gravel; 1st. and 2nd. rate. No timber. Ground covered with undergrowth, shrubbery and grasses, which afford good grazing. Dense undergrowth on 53.20 chs.
	N.0°3' W., bet. secs. 7 and 8. Over slightly rolling land, descending; through dense sage undergrowth.
5.00	Trail bears N.55° W. and S.70° E.
14.03	Trail bears N.40° W. and S.40° E.
31.40	Trail bears N.60° W. and S.60° E.
40.00	Set a trachyte stone 15x15x10 ins., 10 ins., in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug

53.20
51.76

Subdivisions of T.36 S.,R.16 W.-Continued.

- Chains pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 44.97 Trail bears N. 65° W. and S. 65° E.
- 80.00 Set a trachyte stone 17x8x6 ins., 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base 2 ft. high, W. of cor.
- Land slightly rolling with course of drainage to N.E.
Soil, sandy and clay loams; 1st. rate.
No timber.
Undergrowth, shrubbery and grasses cover the ground and make good grazing.
Dense undergrowth on 80.00 chs.

- S., 89° 48' E., on a random line bet. secs. 5 and 8.
- 40.00 Set temp. 1/4 sec. cor.
- 80.22 Intersect N. and S. line, 2 lks., N. of the cor. of secs. 4, 5, 8 and 9, heretofore described.
- Thence I run
N. 89° 47' W., on a true line bet. secs. 5 and 8.
Over slightly rolling land; through dense sage undergrowth.
- 2.60 Trail bears N. 100° W. and S. 100° E.
- 19.70 Trail bears N. and S.
- 26.80 Trail bears N.W. and S.E.
- 40.11 Set a granite stone 15x10x4 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 80.22 The cor. of secs. 5, 6, 7 and 8.
Land, slightly rolling with course of drainage to N. and N.E.

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains. Soil, sandy and sandy loam; 2nd. and 1st. rate.
 No timber.
 Ground covered with dense undergrowth, shrubbery and
 grasses, which afford good grazing.
 Dense undergrowth on 80.22 chs.
 December 14, 1899.

December 15, 1899: I set off $370^{\circ}42'$ N. on the
 lat. arc; $230^{\circ}15'00''$ S. on the decl., arc; and, at 9^h a.m.,
 l.m.t., determine a true meridian with the solar, at
 the cor. of secs. 5, 6, 7 and 8, heretofore described.

Thence I run

N. $89^{\circ}47'$ W., on a random line bet. secs. 6 and 7.

40.00 Set temp. $1/4$ sec. cor.

82.85 Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs.
 1, 6, 7 and 12, heretofore described in Notes of Resur-
 vey of this bdy.

Thence I run

S. $89^{\circ}45'$ E., on a true line bet. secs. 6 and 7.

Over slightly rolling ground; through dense sage un-
 dergrowth.

5.40 Road from St. George to Modena bears S.E. and N.W.

5.65 Trail bears N. 60° W. and S. 60° E.

36.05 Trail bears S. 50° E. and N. 50° W.

Leave dense sage undergrowth bears S.E. and N.W.; en-
 ter medium dense greasewood.

42.85 Set a trachyte stone $12 \times 9 \times 6$ ins., 8 ins. in the ground
 for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18×18
 $\times 12$ ins., E. and W. of stone, 3 ft. dist.; and raised a
 mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.

46.85 Enter dense sage and rabbit brush undergrowth bears
 N. and S.; leave greasewood.

51.25 Trail bears N.W. and S.E.

72.85 Leave rabbit brush and continue in dense sage bears

Subdivisions of T.36 S.,R.16 W.-Continued.

Chains N.20° E.and S.30° W.

82.85 The cor.of secs.5,6,7 and 8.

72.05
10.80

Land slightly rolling with gradual descent to N.and N.E.

Soil,sandy and clay loams slightly intermixed with gravel;1st.and 2nd.rate.

No timber.

Undergrowth,shrubby and grasses cover the ground and make good grazing.

Dense undergrowth on 72.05 chs.

From the cor.of secs.5,6,7 and 8,heretofore described,I run

N.,0°3' W.,on a true line bet.secs.5 and 6, knowing that a closing cor.will be necessary at the intersection with 7th.Standard Parallel South .

Over slightly rolling land,descending;through dense sage and rabbit brush undergrowth.

40.00 Set a trachyte stone 13x10x5 ins.,9 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x16x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, W.of cor.

66.15 Shool Creek wash about 30 lks.wide and 8 ft.deep, drains N.10° E.

80.70 Trail bears N.75° W.and S.60° E.

162.80 Intersect the 7th.Standard Parallel South,22.55 chs. W.of the standard cor.of secs.31 and 32,T.36 S.,R. 16 W.,which is a granite stone 7x5x8 ins.above ground,marked and witnessed as described by the Surveyor General.

Set a red granite stone 15x12x5 ins.,10 ins.in the ground,for closing cor.of secs.5 and 6,marked C.C. on S.,with 5 grooves on E.and 1 groove on W.faces;

Chains dug pits, 24x18x12 ins. crosswise on each line E. and W., 3 ft., and S. of stone, 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, slightly rolling with general course of drainage to N. and N.E. Soil, sandy, sandy and clay loams with sprinkling of gravel; 2nd. and 1st. rate. No timber. Undergrowth, shrubbery and grasses cover the ground and make good grazing. Dense undergrowth on 162.80 chs.

December 15, 1899: At this closing cor., I set off $23^{\circ}16'30''$ S. on the decl. arc; and, at $11^{\text{h}}55'$ a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}43'$ N.

I return to the meridian previously established from Polaris, at the cor. of Tps. 36 and 37 S., Rs. 16 and 17 W.; and, at $3^{\text{h}}55^{\text{m}}$ p.m., l.m.t., this 15th. day of December 1899, I set off $37^{\circ}37'$ N. on the lat. arc; $23^{\circ}14'$ " S. on the decl. arc; and test the adjustments of the solar, finding it gives the same meridian as before, and adjustments are correct. (See Notes of Retracement of S. bdy. of this Tp., Book K. .)

December 15, 1899.

Mayhew H. Galley
U.S. Deputy Surveyor.

Chains.

GENERAL DESCRIPTION.

This Tp. lies in the Southwestern part of the Escalante Desert, which is a part of the Great American Desert, mostly in an almost level plain, with the Southeastern part rising from slope adjoining the foot hills and ridges to high mountainous ridges on the South East corner of the Township.

The soils in the Tp. are generally clay and rich sandy loams, slightly intermixed with gravel, on the plain, and gravelly and stony on the slope and mountain ridges.

Undergrowth, shrubbery and grasses cover the ground and make good grazing for the bands of wild horses, herds of cattle and flocks of sheep and the wild antelope grazing in this Tp.

The only timber in the Tp. is found in the Southeastern part on the slope, ridges and mountains in secs. 25, 35 and 36, which consists of cedars nut pine and pinion pine-scattering except in the E. 1/2 of sec. 36 and S.E. 1/4 of sec. 25, where is grows medium dense and furnishes fuel and fence material for the use of settlers in adjoining Tp., and fence material for pastures and farm in this Tp.

There are no lakes, rivers, streams of water or springs of any kind in the Tp.

The Hamblin or Mountain Meadow Creek is stored in a reservoir in the adjoining Tp., near Holt's Ranch and run Northerly about two miles at intervals to Holt's field and pasture where it is used for irrigation and domestic purposes. A surface well has been dug near the N. Central part of sec. 16, where water is obtained at about 30 ft. in depth. Adjoining this well is watering troughs, windlass etc. These improvements are claimed by William Harris of Leeds, Utah, and are worth about \$150.00.

Subdivisions of T.36 S.,R.16 W.-Continued.

Holt Brothers of Holt's Ranch and Enterprise occupy a large tract of land principally in secs 28 and 29 and extending into secs.20,21 32 and 33,and they have cultivated the same for a number of years to farm products,meadow and pasturage.Their improvements consisting of fencing,stackyards,corralls,sheds,cultivated lands,ditches and reservoir are of the value of about \$3000.00.

The State drove an experiment well in the S. W.cor.of sec.32,but failed to obtain artesian water.

A large tract of land in the South Eastern part of the Tp.,in secs.13,23,24,25,26,34,35 and 36,is enclosed with a wire fence running to and adjoining the foot hills on either end,and occupied by citizens of Pinto,Holt's Ranch and Enterprise for pasturage of their domestic animals.This fence cost about \$1000.00 for construction thereof.

There are no permanent settlers in the Township. The main wagon road from Cedar City by way of Iron City to Modena and Desert springs crosses the North East corner of the Tp.,and the main road from Cedar City by way of Iron City to Holt's Ranch and Enterprise crosses the South East corner of the Tp.

No minerals of any kind have been discovered in the township,and there are no stone quarries,lime kilns or lime quarries,no indications of coals,and no fossils or petrefactions within its boundaries.
December 15,1899.

Matthew H. Galley
U.S.Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Galley, United States Deputy Surveyor, do hereby certify that the partition of the tract received from Jacob S. Blair of the State of Utah bearing date of the 13th day of January, 1899, I have well, faithfully, and truly, in my own person, and in conformity with the instructions furnished by the United States Surveyor General, Utah, the Manual of Surveying Instructions, and the laws of the United States, completed the partition of said tract into Subdivisions of T.36 S., R.17 E.,

the Salt Lake of the State of Utah, which are represented in the field notes having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of such 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 I will safeguard 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.

Mayhew H. Galley
United States Deputy Surveyor

Subscribed by said Mayhew H. Galley and sworn to before me }
the 17th day of May, 1899

U.S.S.S.
S.S.S.S.
U.S.S.S.

Edward Hudson
Notary Public for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Utah, N. E. C. by Galley, Office 17, 1902

The foregoing field notes of the survey of the subdivision of the township of Salt Lake being a part of the Salt Lake Basin and Meridian, Utah.

Mayhew H. Galley
13th day of January, 1899, having been

carefully compared.

Edward Hudson
United States Surveyor General

I hereby certify that the foregoing copy of the field notes of the above described survey is a true and correct copy of the original notes on file in this office.

United States Surveyor General

III
1-619.
R.

Received May 31, 1901.
E. B. [unclear]

1901
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31.30.

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY OF TOWNSHIP 42 SOUTH, RANGE 16 WEST

Of the... SALT LAKE BASE AND Meridian,
in the
STATE OF UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 224, dated January 23rd, 1899

Survey commenced January 24, 1900; 189

Survey completed January 26, 1900; 189

[Handwritten notes and signatures at the bottom of the page]

NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury,	Chainman.
Edward J. Higbee,	Chainman.
David Dix,	Moundman.
Thomas Urie,	Moundman.
David Dix,	Axman.
Thomas Urie,	Axman.
William Macfarlane,	Flagman.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Max W. Woodbury and Edward J. Higbee

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 W. bdy. of T. 42 S., R. 16 W., of the Salt Lake Base and Meridian, State of Utah.

Max W. Woodbury, Chainman.
Edward J. Higbee, Chainman.

Subscribed and sworn to before me this 5th. day of January, A.D. 1900, 189



My Commission Expires March 22, 1903

Senora C. Dalley
Notary Public.

WE, David Dix and Thomas Urie

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 W. bdy. of T. 42 S., R. 16 W., of the Salt Lake Base and Meridian, State of Utah.

David Dix, Moundman.
Thomas Urie, Moundman.

Subscribed and sworn to before me this 5th. day of January, A.D. 1900, 189



My Commission Expires March 22, 1903

Senora C. Dalley
Notary Public.

WE, David Dix and Thomas Urie

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 W. bdy. of T. 42 S., R. 16 W., of the Salt Lake Base and Meridian, State of Utah.

David Dix, Axman.
Thomas Urie, Axman.

Subscribed and sworn to before me this 5th. day of January, A.D. 1900, 189



My Commission Expires March 22, 1903

Senora C. Dalley
Notary Public.

I, William Macfarlane, 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 W. bdy. of T. 42 S., R. 16 W., of the Salt Lake Base and Meridian, State of Utah.

William Macfarlane, Flagman.

Subscribed and sworn to before me this 5th. day of January, A.D. 1900, 189



My Commission Expires March 22, 1903

Senora C. Dalley
Notary Public.

West boundary of T.42 S., R.16 W.

Chains. Survey commenced January 24, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see Notes of Survey of South Boundary of T.42 S., R.14 W., Book A.

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 the cor. of Tps. 42 and 43 S., Rs. 16 and 17 W., which is a limestone 10x5x5 ins. above ground, marked and witnessed as described by the Surveyor General; approximate latitude $37^{\circ} 7'$ N.; longitude $113^{\circ} 38'$ W.; I set off $37^{\circ} 7'$ N. on the lat. arc; $19^{\circ} 04'$ S. on the decl. arc; and, at $4^{\text{h}} 12^{\text{m}}$ p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

At 11^{h} p.m., l.m.t., I observe Polaris at Western Elongation, in accordance with the Manual of Instructions, and mark a point in the line, on a plug driven in the ground, 5 chs. N. of my station.

January 24, 1900.

January 25, 1900: at 7^{h} a.m., l.m.t., I lay off the azimuth of Polaris, $1^{\circ} 32'$, to the East, and mark the True Meridian thus determined, by cutting a small groove in the stone set January 24, on which the True Meridian falls 0.4 ins. West of the mark determined by the solar.

At $8^{\text{h}} 13^{\text{m}}$ a.m., l.m.t., I set off $37^{\circ} 07'$ N. on the lat. arc; $18^{\circ} 54'$ S. 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 chs. N. of my station; this mark falls 0.5 ins. West of the True Meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for true meridians, respectively about $21''$ East and $26''$ West of the meridian estab-

Chains. lished by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The Magnetic bearing of the True Meridian, at 8^h 30' a.m., is N.16°02' E.; the angle thus determined, reduced by the table, page 100, gives the mean magnetic declination 16° E.

From the Tp.cor.already described, I run North on a random line, along the W.bdy.of T.42 S., R.16 W., setting temporary 1/4 sec.and sec.cors:at intervals of 40.00 chs.; and at 396.53 chs., fall 14.03 chs. E.of the old cor.of secs.1,6,7 and 12, which is a white sandstone 25x14x4 ins., 19 ins.deep in a mound of stone, marked and witnessed as described by the Surveyor General. . . . January 26, 1900.

The falling exceeds the limit of 21' of arc; therefore, I abandon my random line and begin at the cor.of secs.1,6,7 and 12, already described, and Survey the W.bdy.of the Tp.as follows:

January 26, 1900: At this cor. I set off 37°11' N. on the lat.arc; 18°30' S. on the decl.arc; and, at 8^h a.m., l.m.t., determine a true meridian with the solar. Thence I run,

South, on a true line bet.secs.7 and 12.

Ascend rapidly over top of Santa Clara Bluff or Cliffs; in sandy stony ground; through scattering sage greasewood and iron wood undergrowth.

36.53 Set a yellow sandstone 20x10x4 ins., 16 ins.in the ground, for 1/4 sec.cor., marked 1/4 on W.face; and raised a mound of stone 2 ft.base, 1 1/2 ft.high, W.of cor. Pits impracticable. Cor.is on N.slope of bluff or cliffs, about 100 ft.above the sec.cor.

51.50 Top of Santa Clara Cliffs or bluff, about 75 ft.above the 1/4 sec.cor., bears N.40°W.and S.40°E.

Descend abruptly over S.W.slope of cliffs into Santa Clara River bottom.

58.68 About 4.00 chs.W.at foot of cliffs is farm in river bottom about 30.00 chs.long N.25°W.and S.25°E.and about 25.00 chs.wide.

West Boundary of T.42 S., R.16 W.-Continued.

chains.

- 68.85 Foot of cliffs in river bottom, about 150 ft. below top of cliffs, bears S.55°E. and N.30°W.
 - 71.35 Santa Clara field road bears S.E. and N.W.
 - 72.55 Santa Clara River about 15 lks. wide and 4 ft. deep, with clear fresh water about 1 ft. deep, rapid current drains S.40°E. in Santa Clara Canon about 5.00 chs., thence nearly East.
 - 73.43 St. George and Santa Clara wood. road bears S.70°E. and N.70°W.
 - 75.96 Ascend. bank 15 ft. high, bears S.E. and N.W.
 - 76.53 Set a yellow sandstone 14x12x7 ins., 10 ins. in the ground, for cor. of secs. 7, 12, 13 and 18, marked with 2 notches on the N. and 4 notches on the S. edges; from which
 - A cottonwood, 10 ins. diam., bears N.30°E., 26 lks. dist. marked. T.42 S., R.16 W., S.7, B.T.
 - A cottonwood 30 ins. diam., bears S.45°W., 175 lks. dist., marked T.42 S., R.17 W., S.13, B.T.
- Land N. of Santa Clara River bottom mountainous and broken; in the river bottom nearly level. . . .
 Soil on the ridges and cliffs sandy, clay and rocky; 4th. rate. In the river bottom sandy and loamy with intermixture of gravel; 1st. and 2nd. rate.
 No timber except in the river bottom, which consists of medium dense cottonwoods and black willow, with scattering ash.
 Good grazing especially in the river bottom which is occupied by inhabitants of Santa Clara for pasturage and the growing of timber for fuel.
 Mountainous land, on 68.85 chs.

68.85
7.68

From the cor. of secs. 7, 12, 13 and 18, above described, I run South, on a true line bet. secs. 13 and 18. Ascend gradually along bench S. side of river bottom; in sandy and gravelly soil; through scattering sage, greasewood and willows.

West Boundary of T.42.S.,R.16.W.-Continued.

Chains.	
4.82	Leave river bottom bench bears S.E. and N.W., and begin ascent of broken ridges and foot hills.
23.50	Wire fence bears S.60°W. to foot of ledges about 3.00 chs. dist., and N.60°E. about 6.00 chs. to foot of ledges.
28.00	Begin ascent of very rough and rocky N.W. and W. slope of high sandstone bluff, bears W. about 4.00 chs., thence S., and N.35°E. about 18.00 chs., thence S.E.
40.00	Set a yellow sandstone 20x14x8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on W. slope of high sandstone bluff, about 150 ft. above the sec. cor.
47.00	Top of ascent of W. slope of sandstone bluff, about 75 ft. above the 1/4 sec. cor., bears S.E. and N.W.; descend abruptly over W. and S.W. slope of bluff very rocky and broken.
72.00	S.W. foot of sandstone bluff, bears E. and N.W.; ascend N.W. foot of high sandstone bluff, rocky and broken.
80.00	Set a gray sandstone 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on the steep N.W. slope of high rocky and broken sandstone bluff or ridge, about 75 ft. above the foot of ridge. Land mountainous and broken ridges. Soil sandy and stony with broken clay and gypsum foot hills W. of line; 4th. rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs.

From the cor. of secs. 13, 18, 19 and 24, above described I run,

West Boundary of T.42 S., R.16 W.-Continued.

Chains.

South, on a true line bet. secs. 19 and 24.
Ascend over steep N.W. slope of sandstone bluff;
through scattering sage and greasewood undergrowth,
and very few cedars on top of high ridges.

14.00 Top of bluff about 150 ft. above the sec. cor., bears
E. and W. about 4 chs., and breaks off abruptly.

Descend abruptly over S.E. slope of bluff, very rocky.

25.00 S.E. foot of sandstone bluff, about 200 ft. below the
top of same, bears N. 75° E. and S. 75° W.

33.00 Begin ascent of steep rocky N.W. slope of high sand-
stone bluff or ridge, bears S.W. and N.E.

38.75 Ravine about 50 ft. wide and 50 ft. deep, drains N. 50° E.

40.00 Set a yellow sandstone 20x8x6 ins., 15 ins. in the
ground, for 1/4 sec. cor., marked 1/4 on W. face; and
raised a mound of stone 2 ft. base, 1 1/2 ft. high, W.
of cor. Pits impracticable.

The cor. is on N.W. slope of bluff or ridge, very
steep and rocky.

46.00 Top of ascent on W. slope of ridge or bluff, about 250
ft. high, bears S. 55° E. and N. 55° W.; descend abruptly
over S.W. and S. slope of ridge, and ledges.

46.44 Foot of ledges about 40 ft. high, bears E. and W.

58.50 South foot of sandstone bluff or ledges, about 275
ft. below the top of bluff, bears E. and W.; thence over
broken ridges and foot hills.

64.00 Hollow about 75 ft. wide and 50 ft. deep, drains S.E.

74.50 Hollow about 100 ft. wide and 50 ft. deep, drains S.
60° E., about 5.00 chs., thence N. 25° E. Trail same course.

80.00 Set a gray sandstone 24x10x5 ins., 18 ins. in the
ground, for cor. of secs. 19, 24, 25 and 30, marked with
4 notches on the N. and 2 notches on the S. edges; and
raised a mound of stone 2 ft. base, 1 1/2 ft. high, W.
of cor. Pits impracticable.

The cor. is in clay and gypsum hills or ridges, near
N.W. foot of a knoll about 75 ft. high.

Land mountainous and very rough and broken.

Soil, sandy and clay-stony; 4th. rate.

No timber, except a few scattering cedars on top of
high bluffs.

Mountainous land on 80.00 chs.

West Boundary of T.42 S., R.16 W.-Continued.

Chains.	<p>January 26, 1900: I set off $18^{\circ}39'$ S. on the decl. arc; and, at 0^h13^m p./m., l.m.t., observe the sun on the meridian, the resulting lat., at above described cor. is $37^{\circ}9'$ N.</p>
	<p>From the cor. of secs. 19, 24, 25 and 30 heretofore described, I run South, on a true line bet. secs. 25 and 30. Over broken clay and gypsum ridges; through scattering greasewood and iron wood undergrowth.</p> <p>19.00 Top of knoll about 100 ft. high; descend over S.W. slope of knoll.</p> <p>27.00 S.W. foot of knoll, about 225 ft. below the top of same bears S. 8° and N.W.</p> <p>35.50 Wash 100 ft. wide and 35 ft. deep, drains E.</p> <p>38.70 Top of clay hill about 50 ft. high, bears N. 40° W. and S 50° E.</p> <p>40.00 Set a burnt sandstone $18 \times 10 \times 4$ ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; and raised a mound of stone 2 ft. base, $1\ 1/2$ ft. high, W. of cor. Pits impracticable. This cor. is on S.W. slope of clay hill, about 25 ft. below top of same.</p> <p>41.70 Hollow at S.W. foot of clay hill, about 60 ft. wide and 25 ft. deep, drains S. 55° E.</p> <p>47.50 Hollow about 75 ft. wide and 25 ft. deep, drains S. 75° E thence over broken clay and gypsum hills, cut with ravines and deep hollows.</p> <p>59.00 Hollow about 100 ft. wide and 50 ft. deep, drains S. 75° E.</p> <p>69.00 Hollow about 100 ft. wide and 50 ft. deep, drains N. 75° E.; trail follows course of hollow.</p> <p>77.00 Hollow and wash 75 ft. wide and 40 ft. deep, drains E.; trail follows course of wash and hollow.</p> <p>80.00 Set a limestone $12 \times 7 \times 5$ ins., 8 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 5 notches on the N. and 1 notch on the S. edges; dug pits $18 \times 18 \times 12$ ins. in each sec., $5\ 1/2$ ft. dist.; and raised a mound</p>

West Boundary of T.42.S.,R.16 W.-Continued.

Chains. of earth, 4 ft. base, 2 ft. high, W. of cor. The cor. is on S. slope of broken clay-gypsum ridges. Land mountainous and broken ridges. Soil, clay, gypsum and stony; 3rd. and 4th. rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing. Mountainous land on 80.00 chs.

From the cor. of secs. 25, 30, 31 and 36, above described, I run South, on a true line bet. secs. 31 and 36. Over broken clay gypsum hills and ridges; through, scattering undergrowth of sage, greasewood and iron wood.

Descend.

- I. 40 Hollow 50 ft. wide and 25 ft. deep, drains S. 50° E.; ascend.
- 12. 42 Top of ascent about 60 ft. above last hollow, bears E. and W.; descend.
- 15. 20 Hollow at foot of descent 50 ft. wide and 40 ft. deep, drains E.; ascend.
- 22. 42 Top of ridge about 50 ft. high, bears N. 55° E. and W.; descend.
- 31. 00 Hollow about 75 ft. wide and 50 ft. deep, drains E.
- 40. 00 Set a limestone 16x8x5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 48. 00 Hollow at foot of descent, about 100 ft. wide and 50 ft. deep, drains E.; ascend.
- 56. 00 Top of clay hill about 80 ft. high, bears N. E. and S. W. descend.
- 61. 00 Hollow at foot of clay ridge or hill, drains N. 80° E.; ascend clay ridge.
- 64. 40 Top of clay ridge about 60 ft. high, bears E. and W.; descend.
- 68. 60 Hollow about 100 ft. wide and 35 ft. deep, drains S. 75° E.

West Boundary of T.42 S., R.16 W.-Continued.

Chains. East.; Ascend clay ridge.

78.40 Top of ridge about 50 ft. high, bears S. 50° E. and N. 50° W.; descend.

80.00. Intersect E. and W. line 14.03 chs. W. of cor. of Tps. 42 and 43 S., Rs. 16 and 17 W., heretofore described. Set a limestone 32x18x3 ins., 24 ins. in the ground, for closing cor. of Tp. 42 S., Rs. 16 and 17 W., marked C.C. 42 S. on N., 16 W. on E., and 17 W. on W. faces; with 6 grooves on N., E. and W. faces; dug pits, 30x24x12 ins., crosswise on each line E. and W., 4 ft., and N. of stone 8 ft. dist.; and raised a mound of earth, 5 ft. base, 2 1/2 ft. high, N. of cor.

I destroy marks on the old cor. of T. 42 and 43 S., Rs. 16 and 17 W., that pertain to T. 42 S.

This closing cor. is on S. slope of high ridge or bluff near to where the same breaks off abruptly on N. side of narrow valley or canon about 250 ft. below.

Land mountainous and broken ridges.

Soil, clay, gypsum and stony; 3rd. and 4th. rate.

No timber.

Undergrowth shrubbery and grasses afford fair grazing, and is used by the inhabitants of Santa Clara for pasturage and grazing purposes. During the rainy season this country washes very easily, and the drainage tends toward the Santa Clara River.

Mountainous land on 80.00 chs.

January 26, 1900.

GENERAL DESCRIPTION.

For General Description see Notes of Subdivisions of T. 42 S., R. 16 W., Book *U*.

January 26, 1900.

Mayhew H. Dalley
U. S. Deputy Surveyor.

West Boundary of T.42 S.,R.16 W.-Continued.

BOUNDARIES OF T.42 S.,R.16 W.
Latitudes,Departures,and Closing Errors.

Line Designated.	True Bearing.	Distance	Latitudes		Departures	
			N. Chs.	S. Chs.	E. Chs.	W. Chs.
S. bdy. T. 42 S. R. 16 W.						
S. bdy. sec. 36	S. 89° 17' W.	80.75	1.00			80.74
S. bdy. sec. 35	S. 89° 41' W.	77.90	.43			77.90
S. bdy. sec. 34	N. 89° 53' W.	80.00	.16			80.00
S. bdy. sec. 33	N. 89° 49' W.	79.58	.25			79.58
S. bdy. sec. 32	N. 89° 51' W.	79.72	.21			79.72
S. bdy. sec. 31	N. 89° 46' W.	78.10	.32			78.10
S. bdy. sec. 31	West.	14.03				14.03
W. bdy. T. 42 S. R. 16 W.						
W. bdys. secs. 31, 30, 19, 18, and 7	North	396.53	396.53			
W. bdy. sec. 6	N. 0° 26' W.	80.64	80.64			.61
N. bdy. T. 42 S., R. 16 W.						
N. bdy. sec. 6	N. 89° 13' E.	80.98	1.10		80.98	
N. bdy. sec. 5	N. 89° 1' E.	80.74	1.37		80.69	
N. bdys. secs. 4, 3, 2 & 1	East	323.97			323.97	
Pine Valley Guide Mer- idian, through T. 42 S.						
E. bdy. sec. 1	South.	78.53		78.53		
E. bdy. sec. 12.	"	80.00		80.00		
E. bdy. sec. 13.	"	40.00		40.00		
E. bdy. sec. 13.	S. 0° 43' E.	40.15		40.15	.50	
E. bdy. sec. 24.	S. 0° 56' E.	80.40		80.40	1.31	
E. bdys. secs. 25 & 36.	S. 0° 43' E.	160.20		160.20	2.00	
Convergence					.55	
			480.58	480.77	490.00	490.68
				480.58		490.00
Error in lat.				.13		
Error in departure						.68

January 30, 1900.

Matthew H. Dally
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, 1899; I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of W. bdy. of T. 42 S., R. 16 W.

Base and meridian, in the State of Utah of the Salt Lake, 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.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 21st day of May, 1899



Edward Hendersen
U. S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 17, 1902
The foregoing field notes of the survey of the West Boundary of Township 42 South Range 16 West of the Salt Lake Base and Meridian, Utah

executed by Mayhew H. Dalley under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward Hendersen
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.

129
4-070.

J. E. ...

1879

S.

BOOK A-286

U.S.D.

FIELD NOTES

OF THE SURVEY OF THE

North Boundary

and

Retacement of the South & West Boundaries

of Township 42 North Range 16 West

of the North State Plane and Meridian,

State of Utah,

AS SURVEYED BY

Magnum H. P. ... United States Deputy Surveyor,

under his Contract No. 224, dated January 23, 1899

Survey commenced January 27, 1900

Survey completed January 30, 1900

Recovery N. Pdy - high	3-03-97 ✓	
" " " low	1-00-00 ✓	100-00-00
Drawings -	4-06 ✓	
Retacement N. Pdy -	2-01-72 low	
Recovery N. Pdy - high	27-29 ✓	
" " " low	03-30 ✓	100-00-64
Retacement S. Pdy -	5-76-05 ✓	low

NAMES AND DUTIES OF ASSISTANTS.

Max Woodbury	Chairman
Edward J. H. Glee	Chairman
David Dix	Stewardman
Thomas Eric	Stewardman
David Dix	Coxman
Thomas Eric	Coxman
William Macfarlane	Flagman

In preliminary affidavit see book N p. 42 SR 15 M

BOOK A-286

INDEX DIAGRAM.

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
7	6	5	4	2	1

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 }



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)



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)



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)



Retracement of S. bdy. of T. 42 S., R. 16 W.

Chains.

Retracement commenced January 27, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see notes of Survey of South Boundary of T. 42 S., R. 14 W., Book A.

For complete test of solar apparatus see notes of Survey of the West boundary of T. 42 S., R. 16 W. Book R.

By resurveying and retracing the W. bdy. of T. 42 S., R. 15 W. (Pine Valley Guide Meridian), and surveying the W. bdy. of this Tp., I find that the exteriors thereof will not close; therefore, I retrace the S. bdy. of the Tp. as follows:-

January 27, 1900: I set off $37^{\circ}7'$ N. on the lat. arc; $18^{\circ}25'$ S. on the decl. arc; and, at 9^h a.m., l.m.t., determine a true meridian with the solar, at the cor. of Tps. 42 and 43 S., Rs. 15 and 16 W., heretofore described. in Notes of retracement of S. bdy. of T. 42 S., R. 15 W., Book N.

Thence I run

$S. 89^{\circ}34' W.$ on retracement line bet. secs. 1 and 36.

Gradually ascend along E. slope of foot of black volcanic ridge; over sandy, clay and stony ground; through scattering greasewood and iron wood undergrowth.

4.15 Road from St. George to the fields bears $N. 20^{\circ} E.$ and $S. 20^{\circ} W.$

6.50 Begin ascent of E. slope of black ridge bears $N. 10^{\circ} E.$ and $S. 10^{\circ} W.$; leave St. George Valley.

23.75 Top of E. slope of ridge about 150 ft. high, bears $N. 10^{\circ} E.$ and $S. 10^{\circ} W.$; thence over top of ridge.

30.75 Begin to descend abruptly over W. slope of ridge, bears S. about 2.00 chs., thence S.E., and N.

40.09 Fall 22 lks. N. of the old $1/4$ sec. cor on S. bdy. of sec. 36, which is a surface volcanic stone $20 \times 20 \times 10$ ins. above ground, marked and witnessed as described by the Surveyor General. The cor. is on W. slope of black ridge about 175 ft. below the top of ridge.

44.75 Road from St. George to the fields at W. foot of black ridge, running along foot of ridge, bears $S. 45^{\circ} E.$ and

Retracement of S.bdy.of T.42 S.,R.16.W.-Continued.

Chains.	winds around point of ridge;and N.50° W.
44.90	Canal on E.side of St.George and Santa Clara fields drains S.45° E.;enter cultivated lands;leave stone ground and enter rich sandy clay and loamy soil.
51.35	Santa Clara River or Creek,about 37 lks.wide with banks on either side about 5 ft.high,clear fresh water about 6 ins.deep,drains S.45° E.
63.21	Fence bears N.40° E.and N.40° W.
65.57	Wire division fence bears S.70° E.about 3.50 chs., thence N.40° E.being the same fence crossed at 63.21 chs.;and N.70° W.about 10.00 chs.,thence N.
80.75	Fall 40 lks.N.of the old cor.of secs.1,2,35 and 36, which is a trachyte or sandstone,12x8x6 ins.above ground,properly marked with witness points obliterated. Dug Pits 18x18x12 ins.in each sec.,5 1/2 ft.dist.; and raised a mound of earth,5 ft.base,2 ft.high,W. of corner. The course of the line bet.the sec.cor-ners is therefore S.89°17' W. This cor.is in the cul-tivated field and is claimed by Mr.Thompson the own-er of the land to be in its original position.
	Land mountainous and level land.
	Soil on the ridges sandy,clay and stony;4th.rate;in the fields,the soil is sandy and clay loam;1st.and 2nd.rate.
	No timber,except scattering cottonwoods and black willow along the river bottom.
	Scrubby willows along the river bottom,and small un-dergrowth on the ridges.
	Mountainous land on 38.25 chs.
	From the cor.of secs.1,2,35 and 36,above descri-bed,I run
	S.89°34' W.on retracement line bet.secs.2 and 35.
	Ascend gradually over nearly level cultivated grounds, in rich sandy and clay loamy soil;
3.50.	Leave cultivated lands and enter pasture lands, bears N.75° W.and S.75° E.
12.26	Canal on W.side of pasture and fieldsabout 6 ft.wide

Retracement of S. Boundary of T. 42 S., R. 16 W. - Continued.

Chains. and about 4 ft. deep, drains S. 70° E.; enter rolling foot hills and ridges.

15.56 Road from St. George to fields bears S. 65° E. and N. 65° W. about 3.00 chs., thence turns N. E.

24.15 Begin to ascend N. E. slope of ridges, bears S. 75° E. and N. 75° W.

34.70 Trail bears N. 75° W. and S. 75° E.; ascend along N. foot of ridge.

39.95 Fall 8 lks. N. of the old 1/4 sec. cor., which is a black lava stone 12x8x5 ins. above ground, marked and witnessed as described by the Surveyor General. The cor. is at the N. foot of ridge which bears N. 89° 85' E. and S. 89° 85' W., on S. side of a valley about 10.00 chs. wide.

Gradually ascend on N., N. E. and E. slope of ridge.

41.00 Trail bears N. 75° W. and S. 75° E.

66.90 Hollow about 50 ft. wide and 25 ft. deep, about 50 ft. above the 1/4 sec. cor., drains N. 15° E. Begin more rapid ascent from hollow.

77.90 Fall 16 lks. S. of the old cor. of secs. 2, 3, 34 and 35, which is a lava stone 12x8x4 ins. above ground, marked and witnessed as described by the Surveyor General. The course of this line bet. the sec. corners is therefore S. 89° 41' W.

Land mountainous and broken ridges and nearly level land.

Soil in fields and pasture, sandy, clay and loamy; 1st. and 2nd. rate; on the ridges sandy, clay and gravelly; 3rd. and 4th. rate.

Scattering greasewood, sage, iron wood undergrowth on the ridges and in the narrow valley N. of line, and native grasses afford fair grazing.

No timber, except scattering cottonwoods in the fields and pastures.

Mountainous land on 53.75 chs.

From the cor. of secs. 2, 3, 34 and 35, above described,

4

Retracement of S. Boundary of T. 42 S., R. 16 W. - Continued.

Chains..	<p>I run</p> <p>N. $89^{\circ}47'$ W., on retracement line bet. secs. 3 and 34.</p> <p>Ascending sandy gravelly ridge.</p> <p>3.00 Top of spur about 15 ft. above the sec. cor., bears N. and S.; descend.</p> <p>12.50 Bottom of canon about 60 ft. below top of ridge, drains N. about 20.00 chs., thence turns N.E.; ascend.</p> <p>16.00 Top of spur about 50 ft. above the canon, bears N. and S. Descend.</p> <p>20.10 Trail bears S. 40° W. and N. 40° E.</p> <p>23.00 Bottom of hollow about 50 ft. below top of spur, drains N. 55° E.; ascend.</p> <p>28.75 Hollow about 30 ft. deep, drains N. 60° E.; ascend.</p> <p>39.72 Fall 8 lks. N. of the old $1/4$ sec. cor., which is a sandstone 6x6x5 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>Continue ascending abruptly.</p> <p>57.00 Top of E. side of rocky gulch, drains rapidly N. 50° E. descend.</p> <p>60.25 Bottom of gulch about 50 ft. deep, drains N.E., ascend.</p> <p>63.00 Top of W. side of gulch, about 75 ft. above the bottom, slopes N. 50° E., continue ascending.</p> <p>68.13 Ravine about 150 ft. wide and 50 ft. deep, drains N. 50° E.</p> <p>75.25 Ravine about 250 ft. wide and about 50 ft. deep, drains N. 55° E.; continue ascending abruptly.</p> <p>80.00 Fall 14 lks. N. of the old cor. of secs. 3, 4, 33 and 34, which is a gray sandstone 6x6x5 ins. above ground, marked and witnessed as described by the Surveyor General, on N.E. slope of high sandstone bluff.</p> <p>The course of this line bet. the sec. corners is, therefore, N. $89^{\circ}53'$ W.</p> <p>Land mountainous and broken.</p> <p>Soil, sandy, gravelly and stony; 3rd. and 4th. rate.</p> <p>No timber.</p> <p>Vegetation: scattering greasewood, iron wood, sage and cactus undergrowth and native grasses, which afford good grazing.</p> <p>Mountainous land on 80.00 chs.</p> <p>January 27, 1900: At this sec. cor., I set off $18^{\circ}23'30''$ S. on the decl. arc; and, at 0^h13^m p.m., l.m.t., observe</p>
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Retracements of S. Boundary of T. 42 S., R. 16 W. - Continued.

Chains.	the sun on the meridian; the resulting lat. is 37° 7' N.
	<p>From the cor. of secs. 3, 4, 33 and 34, already described, I run</p> <p>N. 89° 47' W. on retrace-ment line bet. secs. 4 and 33. Ascending from corner on N. E. slope of high sandstone mountain or bluff.</p> <p>4.00 Top of E. side of rocky gulch, bears N. 70° E. and S. 60° W.; descend.</p> <p>8.70 Bottom of gulch about 75 ft. deep, drains N. 70° E.; ascend on W. side of gulch.</p> <p>10.12 Top of W. side of gulch, about 100 ft. above the bottom, bears N. 70° E. and S. 60° W.; continue[#] ascending.</p> <p>16.00 Top of mountain or bluff about 400 ft. high, bears N. 20° E. about 30.00 chs., thence S. 50° W.; and S. 20° W. Descend abruptly over ledges of sandstone.</p> <p>22.40 Bottom of ledges at W. foot of bluff about 250 ft. below the top, bears N. 20° E. and S. 20° W.; continue descending over broken sandy, gravelly ridges.</p> <p>39.47 Fall 3 lks. N. of the old 1/4 sec. cor., which is a gray sandstone 8x5x5 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>42.00 Bottom of main ravine about 25 ft. wide and 4 ft. deep, about 75 ft. below the bottom of ledges, drains N. 45° E.; ascend.</p> <p>62.00 Ravine about 100 ft. wide and 50 ft. deep, drains S. about 8.00 chs., thence N. E.</p> <p>65.00 Top of spur of ridge, about 150 ft. above the 1/4 sec. cor., slopes S. and S. W.; descend over broken clay ridges.</p> <p>73.50 Ravine about 70 ft. wide and 50 ft. deep, drains S.</p> <p>78.75 Ravine about 25 ft. wide and 20 ft. deep, drains S. 10° E. Ascend W. side of ravine.</p> <p>79.58 Fall 5 lks. N. of the old cor. of secs. 4, 5, 32 and 33, which is a gray sandstone 10x5x5 ins. above ground, marked and witnessed as described by the Surveyor General. The course of this line bet. the sec. corners, is therefore, N. 89° 49' W.</p>

Retracements of S. Boundary of T. 42 S., P. 16 W. - Continued.

Chains.	<p>Land mountainous and broken. Soil, gravelly, sandy, clay and rocky; 2nd, 3rd, and 4th. rate. No timber. Scattering sage, greasewood, iron wood and cactus un- dergrowth, which with the native grasses afford fair grazing. Mountainous land on 79.58 chs.</p>
	<p>From the cor. of secs. 4, 5, 32 and 33, above described I run N. 89° 47' W. retracing line bet. secs. 5 and 32. Ascending from cor. over gypsum and clay lands cut through the loose soils in all directions with washes and gulches.</p> <p>15.00 Top of ridge about 75 ft. above the sec. cor., bears N. E. and S. W.; descend.</p> <p>27.00 Wash about 50 ft. wide and 20 ft. deep, drains N. 50° E. Ascend from wash.</p> <p>39.73 Fall 3 lks. N. of the old 1/4 sec. cor., which is a limestone 8x6x6 ins. above ground, marked and witnessed as described by the Surveyor General.</p> <p>43.00 Top of ridge about 75 ft. high, bears N. and S.; de- scend.</p> <p>49.00 Bottom of hollow about 50 ft. wide and 25 ft. deep, drains S. 75° E.; ascend.</p> <p>59.00 Top of ridge about 50 ft. high, bears N. 55° W. and S. 55° E.; descend abruptly over clay bank into hollow.</p> <p>65.10 Wash at bottom of hollow about 40 ft. wide and 18 ft. deep, about 45 ft. below top of ridge, drains S. 50° W. Ascend from wash and hollow.</p> <p>69.00 Wash about 65 ft. wide and 20 ft. deep, drains S. 65° E. continue ascending.</p> <p>79.72 Fall 10 lks. N. of the old cor. of secs. 5, 6, 31 and 32, which is a limestone 8x7x5 ins. above ground, marked and witnessed as described by the Surveyor General. The course of this line bet. the sec. corners is, there- fore, N. 89° 51' W.</p>

Retracements of S. Boundary of T.42 S., R.16 W. -Continued.

Chains. Land mountainous and broken ridges.
 Soil, gravelly and gypsum and white clay; 3rd. and 4th. rate.
 No timber.
 Undergrowth, scattering greasewood, sage and iron wood, which with native grasses afford medium grazing.
 Mountainous land on 79.72 chs.

From the cor. of secs .5, 6, 31 and 32, above described, I run North, $89^{\circ}47'$ W. on retracement line bet. secs. 6 and 31.

- Ascend from cor. over white loose clay and gypsum.
- 6.75 Top of spur of ridge about 25 ft. above the cor., bears N. and S.; descend.
- 8.00 Bottom of ravine, about 35 ft. below the top, drains S. 40° E.; ascend.
- 31.50 Top of spur about 50 ft. high, bears N. 20° E. and S. 70° W.; descend.
- 33.50 Bottom of ravine about 30 ft. below top of spur, drains N. 45° E.; ascend.
- 37.00 Re-cross same ravine drains S. 65° E. about 1.00 chs, thence turns N.E.; continue ascending.
- 39.75 Fall 16 lks. S. of the old $1/4$ sec. cor., which is a sandstone 8x6x5 ins. above ground, marked and witnessed as described by the Surveyor General. Course N $89^{\circ}33'$ W.
- 70.00 Top of ridge about 50 ft. high, bears E. and W.; continue ascending.
- 78.10 Fall 2 lks. S. of the old cor. of Tps. 42 and 43 S., Rs. 16 and 17 W., as described in Notes of Survey of W. bdy. of this Tp., and remarked for cor. of Tp. 43 S., Rs. 16 and 17 W., only.

The course of the lines bet. the sec. corners is therefore N. $89^{\circ}46'$ W.; and the course on the last 38.35 chs. is due West.

Land mountainous and broken.
 Soil, gypsum and white clay mixed with gravel; 3rd. and 4th. rate
 No timber.

Vegetation, scattering greasewood, sage, iron wood, and
grasses, which afford fair grazing.

Mountainous land on 78.10 chs.

January 27, 1900.

G E N E R A L D E S C R I P T I O N .

For General Description see Notes of the subdivi-
sions of this Tp.

January 27, 1900.

Mayhew H. Dalley
U. S. Deputy Surveyor

Volume

#

R0286

Retracement and Resurvey of N.bdy.of T.42 S.,R.16 W.

Chains.

Retracement and Resurvey commenced January 29, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see notes of Survey of S.bdy. of T.42 S., R.14 W., Book A

For complete test of solar apparatus see notes of Survey of West boundary of T.42 S., R.16 W., Book R.

By resurveying and retracing the W.bdy. of T.42 S. R.15 W. (Pine Valley Guide Meridian), surveying W.bdy. and retracing the S.bdy. of this Tp., I find that the exteriors thereof will not close; therefore, I retrace and resurvey the N.bdy. of the Tp. as follows: January 29, 1900: I set off $37^{\circ}12'$ N. on the lat. arc; $17^{\circ}53'$ S. on the decl. arc; and, at 9^h a.m., l.m.t., determine with the solar a true meridian at the cor. of Tps. 41 and 42 S., Rs. 15 and 16 W., established by me and described in notes of Resurvey of N.bdy. of T.42 S., R.15 W., Book N

Thence I run

West along the N.bdy. of the Tp., at 14.30 chs. the location of the old Tp. cor. heretofore destroyed bears N. 60 lks.; at 40.00 and 80.00 chs., I find no trace of the old 1/4 sec. and secs cors.; at 96.89 chs., fall 61 links S. of the old cor. of secs. 1, 2, 35 and 36, which is a red sandstone 25x12x8 ins., 19 ins. deep in a mound of stone, marked and witnessed as described by the Surveyor General; therefore I continue my line West, find no part of the N.bdy. in alinement and measurements defective, and that many of the corners are entirely obliterated. At 485.64 chs., intersect the N. and S. line, 6.93 chs. North of the old cor. of Tps. 41 and 42 S., Rs. 16 and 17 W., which is a red sandstone 24x12x10 ins., in a mound of stone, marked and witnessed as described by the Surveyor General. As subdivisional lines have been closed on the W. 2 miles of the North boundary, I retrace this portion thereof, as follows:

Chains. January 29, 1900: I set off $37^{\circ}12'$ N. on the lat. arc; $17^{\circ}49'$ S. on the decl. arc; and, at 3^h p.m., l.m.t., determine a true meridian with the solar, at the cor. of Tps. 41 and 42 S., Rs. 16 and 17 W., heretofore described.

Thence I run

East, on retracement line bet. secs. 6 and 31.

Over rolling sandhills; in rich sandy soil; through medium dense greasewood, sage and cactus undergrowth.

14.77 Trail bears N. 15° W. and S. 15° E.

40.42 Fall 53 lks. S. of the old $1/4$ sec. cor., which is a red sandstone $8 \times 6 \times 4$ ins. above ground, marked $1/4$ on N. face, with pits and mound obliterated. I dig pits $18 \times 18 \times 12$ ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor. The course of this line is therefore N. $89^{\circ}15'$ E. and the distance 40.42 chs. bet. corners.

76.97 Wash 15 ft. wide and 5 ft. deep drains S. 10° W.

79.97 Trail bears N. E. and S. W.

80.98 Fall 110 links S. of the old cor. of secs. 5, 6, 31 and 32 which is a red sandstone $12 \times 4 \times 4$ ins. above ground properly marked with no trace of pits and mound. I raised a mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

The course therefore from the last $1/4$ sec. cor. is N. $89^{\circ}11'$ E., and the distance 40.56 chs.

Land rolling.

Soil rich and sandy; 1st. and 2nd. rate.

Undergrowth and grasses afford good grazing.

No timber.

The line passes over what is known as Santa Clara Bench, near the S. foot of high sandstone bluffs.

I begin at the cor. of secs. 5, 6, 31 and 32 above described, and run

East, retracing the line bet. secs. 5 and 32.

Over rolling bench land; in rich sandy soil; through medium dense greasewood, sage and cactus undergrowth.

Retracement and Resurvey of N. Boundary of T. 42 S., R. 16W.

Chains:

- 1.69 Wash 20 ft. wide and 4 ft. deep, heads N. 10° E. about 20.00 chs., and drains S. 10° W.
- 22.79 Wash 15 ft. wide and 5 ft. deep drains S. 20° E., and heads N. 20° W. about 40.00 chs.
- 25.00 Wash 20 ft. wide and 3 ft. deep drains S. 20° E., and heads N. 20° W. about 40.00 chs. dist.
- 41.93 Fall 187 lks. S. of the old $1/4$ -sec. cor., which is a red sandstone $10 \times 4 \times 5$ ins. above ground, properly marked: with pits and mound obliterated. I dig pits $18 \times 18 \times 12$ ins. E. and W. of stone 3 ft. dist., and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high N. of cor. The course of this line is therefore is N. $87^{\circ} 27'$ E. and the distance 41.97 chs.
- 48.30 Wash drains S. E., and heads N. W. about 40.00 chs. at foot of high red sandstone mountain.
- 67.69 Wash about 20 ft. wide and 4 ft. deep drains S. 35° E., to Clara Creek, and heads N. 40° W. about 40.00 chs. dist.
- 80.74 Fall 137 lks. S. of the old cor. of secs. 4, 5, 32 and 33, which is a red sandstone $10 \times 8 \times 5$ ins. above ground, properly marked, with pits and mound obliterated. I dig pits $18 \times 18 \times 12$ ins. in each sec. $5 \frac{1}{2}$ ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high W. of cor. The course of the last 38.81 chs. is therefore S. $89^{\circ} 16'$ E., and the distance bet. corners. 38.81 chs. Land rolling sandy bench. Soil, rich sandy; 1st. and 2nd. rate. No. timber. Undergrowth, shrubbery and grasses afford good grazing. The line passes over the Santa Clara bench.

January 29, 1900.

Resurvey of North Boundary of T. 42 S., R. 16 W.

- Chains. As there are no subdivisional lines closing on either side of the East four miles of the N. boundary of this Tp., I resurvey the same as follows:
- January 30, 1900: I set off $37^{\circ}12'$ N. on the lat. arc; $17^{\circ}36'30''$ S. on the decl. arc; and, at 10^h a. m., 1. m. t., determine a true meridian with the solar, at the cor. of secs. 4, 5, 32 and 33, heretofore described.
- Thence I run
- East on Resurvey line bet. secs. 4 and 33.
- Over rolling bench land; in rich sandy soil; through medium dense greasewood, cactus and iron wood undergrowth.
- 15.02 Hollow: 25 ft. wide and 15 ft. deep drains S.
- 22.02 Wash 60 ft. wide and 10 ft. deep drains S. 40° W.
- 24.71 Road from Santa Clara to Diamond Valley bears S. 25° W. and N. 25° E.
- 27.77 Wash about 20 ft. wide and 8 ft. deep, drains S. 30° W.
- 40.00 Set a lava stone $30 \times 12 \times 6$ ins., 23 ins. in the ground, for re-established $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth and stone $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high N. of cor.
- I find no trace of the old $1/4$ sec. corner.
- 47.85 Road from St. George to Diamond Valley and Ranches, bears S. E. and N. W.
- 50.77 Leave rich sandy soil, bears S. 45° W. and N. 40° W.; enter broken lava ridges, almost barren. Leave greasewood and cactus; continue in scattering iron wood.
- 80.00 Set a lava stone $16 \times 10 \times 6$ ins., 11 ins. in the ground, for re-established cor. of secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges; and raised a mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high W. of cor. Pits impracticable. The cor. is in a lava bed. Find no trace of old sec. cor. after diligent search.
- Land rolling sandhills and broken lava ridges.
- Soil W. of lava ridges sandy and rich; 1st. and 2nd. rate.
- In lava ridges very little soil; 4th. rate.
- No timber.
- Good grazing on the Santa Clara Bench W. of the lava ridges.

Resurvey of N. Boundary of T. 42 S., R. 16 W. -

- Chains. I begin at the cor. of secs. 3, 4, 33 and 34, heretofore described, and run
- East, on resurvey line bet. secs. 3 and 34.
- Over broken lava ridges; through scattering iron wood
- 27.04 Top of lava ridge about 40 ft. high bears N. and S.
Descend over broken lava ridges and ledges.
- 28.34 Volcanic wash at E. foot of lava bench drains South.
Foot of lava bench bears N. and S. Leave lava ridges.
- 29.19 Begin ascent from E. side of wash bears S. 50° E. and N.
50° W. The wash drains S. 50° E. in winding course to
Santa Clara Creek, and heads N. 60° W. about 100.00
chs. near Snow's Spring. Ascend from wash over red
sandstone ridges.
- 34.79 Hollow about 50 ft. wide and 20 ft. deep drains S. 45° W
and enters Volcanic Wash at about 10.00 chs. dist.
- 40.00 Set a red sandstone 18x12x5 ins., 12 ins. in the ground,
for reestablished 1/4 sec. cor., marked 1/4 on N. face;
and raised a mound of stone 2 ft. base, 1 1/2 ft. high
N. of cor. Pits impracticable. Find no trace of the old
1/4 sec. cor. after diligent search. This cor. is on
S. W. slope of red sandstone ridge about 100 ft. above
the volcanic wash named at 28.34 chs.
- 47.19 Top of ascent on S. slope of red sandstone ridge, about
125 ft. above the 1/4 sec. cor., bears N. and S.; descend
over steep and broken S. E. slope of ridge.
- 52.59 Ravine at E. foot of ridge and W. foot of red sandstone
ledges, about 100 ft. wide and 50 ft. deep, drains S. 45°
W. and heads N. about 20.00 chs. dist.
Ascend over red sandstone ledges.
- 61.84 Top of ledges 100 ft. high, bears N. 10° W. and S. 10° E.
Continue to ascend abruptly over broken ledges.
- 78.79 Top of ascent on top of red sandstone mountain, about
300 ft. high, bears S. 15° E. and N. 15° W.; descend abruptly
over E. slope of ridge.
- 80.00 Set a red sandstone 20x8x6 ins., 15 ins. deep in a
mound of stone, for reestablished cor. of secs. 2, 3, 34,
and 35, marked with 2 notches on E. and 4 notches on
W. edges; and raised a mound of stone 2 ft. base, 1 1/2
ft. high, W. of cor. Pits impracticable. Hard sandstone
surface prevented setting the cor. stone deeper.

Resurvey of N. Boundary of T. 42 S., R. 16 W.

Chains.	<p>The cor. is on N. slope of red sandstone mountain, near E. foot of broken sandstone ridge.</p> <p>No trace of the old cor. of secs. 2, 3, 34 and 35 can be found after diligent search.</p> <p>Land mountainous and very rough and broken.</p> <p>Soil sandy and stony; 4th. rate.</p> <p>No timber, and very little vegetation along the line.</p> <p>Mountainous land on 80.00 chs.</p>
	<p>I begin at the cor. of secs. 2, 3, 34 and 35, heretofore described, and run</p> <p>East on resurvey line bet. secs. 2 and 35.</p> <p>Ascend over broken N., N.W. and N. slope of red sandstone bluffs; in sandy stony ground; through scattering greasewood sage and iron wood undergrowth.</p> <p>10.97 Top of ascent on N. slope of red sandstone bluff, about 150 ft. above the sec. cor., bears S.E. and N.W.; descend over N.E. slope of bluff.</p> <p>21.27 Ravine about 100 ft. wide and 50 ft. deep drains S. 20° E.; ascend abrupt W. slope of lava bench.</p> <p>24.27 Top of ledges about 60 ft. above the ravine, bears N. 50° W. and S. 50° E.; ascend rapidly over rocky W. slope of lava ridge or bench.</p> <p>25.92 Red sandstone bluffs about 8.00 chs. long E. and W. and about 6.00 chs. wide N. and S., bears S. about 20.00 chs. dist. Ascend more gradually.</p> <p>28.42 Old road from St. George to Mountain Meadows and Modena bears S. 15° W., about 4.00 chs., thence S.E.,</p> <p>29.47 Old road, same course as last named road.</p> <p>31.15 Old road course as road first named.</p> <p>32.37 Main wagon road from St. George to Mountain Meadows and Modena, bears S. 15° W., about 4.00 chs., thence S.E.,</p> <p>33.97 Top of ridge about 50 ft. high bears N. 20° W. and S. 20° E.; descend over N.E. slope of ridge.</p> <p>40.00 Set a volcanic stone 16x10x8 ins., 11 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on</p>

Resurvey of North Boundary of T.42 S., R.16 W.

Chains. N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is near E. foot of volcanic ridge on top of high volcanic mountain. The old 1/4 sec. cor. - a gray sand or lava stone bears N. 78° 10' W., 14.83 chs. dist. I destroy all traces of this cor.

43.22 Foot of rocky descent about 25 ft. below the 1/4 sec. cor. bears N. and S. Ascend.

44.47 Trail bears N. and S.

44.97 Wash about 15 ft. wide and 6 ft. deep drains S. 30° W. about 6.00 chs., thence S. E. - heads N. 20° E. about 80.00 chs. dist.

50.27 Telegraph line from St. George to Pine Valley bears S. E. and N. W.

56.00 Top of ridge: 60 ft. above the 1/4 sec. cor., bears S. 20° W. and N. 20° E.; descend.

59.50 Hollow at E. foot of ridge about 25 ft. wide and 40 ft. deep drains S.; ascend over steep rocky W. slope of red sandstone ridge.

73.50 Top of red sandstone ridge about 100 ft. high, bears N. 30° E. and S. 30° W.; descend abruptly over rocky and broken S. E. slope of ridge.

80.00 Set a trachyte stone 15x12x6 ins., 10 ins. deep in a mound of stone, for re-established cor. of secs. 1, 2, 35 and 36, marked with 5 notches on the W. and 1 notch on the E. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable. The cor. is on E. slope of steep sandstone ridge. Hard sandstone surface prevented setting the cor. stone deeper. I destroy all traces of the old cor. of secs. 1, 2, 35 and 36, heretofore described, which bears N. 66° 54' W. 14.05 chs. dist.

Land mountainous and broken ridges.
Soil, sandy clay and stony; 4th. rate.
No timber, and very little shrubbery or undergrowth along the line.
Mountainous land on 80.00 chs.
January 30, 1900: I set off 17° 35' 30" S. on the decl. arc; and, at 0h 13m p.m., l.m.t., observe the sun on the meridian; the resulting lat. at this sec. cor. is 37°

Resurvey of North Boundary of T. 42 S., R. 16 W.

Chains. 12' N.

From the cor. of secs. 1, 2, 35 and 36, above described, I run

East on resurvey line bet. secs. 1 and 36.

Descend over E. slope of sandy stone ridge; through scattering greasewood and iron wood undergrowth.

- 2.63 Wash at foot of sandstone ridges, about 20 ft. wide and 6 ft. deep, drains S. about 15.00 chs., thence S.W. Ascend from wash over steep and rocky W. and N.W. slope of ridges.
- 20.97 Top of ascent on N.W. slope of ridge about 150 ft. above the sec. cor., bears N. and S.; descend over N. and N.E. slope of broken ridges.
- 36.00 Ravine at foot of descent, about 50 ft. wide and 25 ft. deep,, drains N. 70° W., and heads S. 60° E. about 8.00 chs. near top of mountain or ridges.
Ascend rapidly over rocky S.W. slope of ridge.
- 40.00 Set a burnt sandstone 25x10x4 ins., 19 ins. in the ground, for re-established $1/4$ sec. cor., marked $1/4$ on N. face; and raised a mound of stone 2 ft. base, 1 $1/2$ ft. high, N. of cor. Pits impracticable. Find no trace of the old $1/4$ sec. cor., after diligent search.
The cor. is on steep S. Westerly slope of burnt sandstone ridge, covered with volcanic boulders.
- 47.97 Enter volcanic bench at top of ascent about 140 ft. above the $1/4$ sec. cor., bears N. 10° W. and S. 10° W., about 8.00 chs., thence turns W. Thence over top of volcanic bench or ridge.
- 78.90 Descend rapidly over rocky E. slope of ridge or bench bears N. 75° E. about 4.00 chs., and S. 10° E.
- 83.97 Intersect the E. bdy. of the Tp. (Pine Valley Guide Meridian) 4.46 chs. S. of the cor. of Tps. 41 and 42 S., R. 15 and 16 W., established by me, and described in Resurvey of N. bdy. of T. 42 S., R. 15 W., Book N. This intersection being also 78.53 chs. N. of the re-established cor. of secs. 1, 6, 7 and 12 heretofore described
Set a trachyte stone 17x12x10 ins., 12 ins. in the

Resurvey of North Boundary of T.42 S., R.16 W.

Chains. ground, for closing cor. of Tps. 41 and 42 S., R. 16 W. marked 41 S. on N., C.C. 16 W. on W., and 42 S. on S. faces, with 6 grooves on N., W. and S. faces; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is in a bed of volcanic boulders on E. slope of volcanic bench or ridge, about 80 ft. below the top of bench or ridge.

I destroy the marks on the cor. of Tps. 41 and 42 S., R. 15 and 16 W., pertaining to R. 16 W., and reestablish same as cor. of Tps. 41 and 42 S., R. 15 W. only.

Land mountainous and broken.

Soil, sandy, clay and stony; 4th. rate.

No timber.

Good grazing on top of lava bench and ridges.

Mountainous land on 83.97 chs.

January 30, 1900.

GENERAL DESCRIPTION.

For General Description see notes of Subdivisions of T. 42 S., R. 16 W., Book *U*.

January 30, 1900.

Mayhew H. Galley
U. S. Deputy Surveyor.

Chains.

Retracement commenced January 30, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see notes of Survey of S. bdy. of T. 42 S., R. 14 W., Book A.

For complete test of solar apparatus see notes of Survey of W. bdy. of this Tp. *Book R.*

Having heretofore retraced and resurveyed the old exteriors of the Tp. except the line bet. secs. 1 and 6 on the W. bdy. thereof, and finding the same defective in measurement and alinement, I deem it advisable to test the course and length of this line also; therefore, I commence at the old cor. of secs. 1, 6, 7 and 12 heretofore described, and run

North, on a blank line bet. secs. 1 and 6.

40.00 Find no trace of the old 1/4 sec. cor. after diligent search.

80.64 Fall 61 lks. E. of the cor. of Tps. 41 and 42 S., R. 16 and 17 W., heretofore described; therefore, I re-establish this line as follows:

January 30, 1900: At this Tp. cor. I set off $37^{\circ}12'$ N. on the lat. arc; $17^{\circ}30'$ S. on the decl. arc; and, at 4^h p.m., l.m.t., determine a true meridian with the solar.

Thence I run

South, $0^{\circ}26'$ E., on a true line bet. secs. 1 and 6, this course determined from blank line.

Over nearly level and rolling sandhills; through medium dense sage, greasewood and cactus undergrowth; in rich sandy soil. Gradually ascend.

21.14 Trail bears N. 60° E. and S. 60° W.

34.86 Trail bears N. 80° E. and S. 80° W.

38.30 Road from Santa Clara to California bears N. W. in a Canon.

40.32 Set a red sandstone 16x10x6 ins., 11 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

Chains.

- 42.73 Road from St. George to Bunkerville bears S. 40° E. and N. 40° W.
- 43.35 Road from St. George to Bunkerville and California, bears S. 40° E. and N. 40° W. Leave rich sandy soil and enter clay stony soil; begin ascent of Santa Clara bluff bears S. E. and N. W.
- 47.36 Road from Santa Clara to the farms on the Santa Clara River bears S. 80° W. and N. 80° E.
- 68.26 Hollow about 50 ft. wide and 25 ft. deep drains E.
- 80.64 The cor. of secs. 1, 6, 7 and 12 heretofore described. Land nearly level and rolling on the N. and mountainous and broken on the S. Soil sandy, clay and stony; 2nd. and 4th. rate. No timber. Undergrowth, shrubbery and grasses afford fair grazing Mountainous land on 37.29 chs.

January 30, 1900.

GENERAL DESCRIPTION.

For General Description see Notes of Subdivisions of T.42 S., R.16 W., Book U .

January 30, 1900.

Mayhew H. Galley
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, A.D. 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, ^{retraced} surveyed all those parts or portions of The North South and West Boundaries of Township 42 South Range 16 West

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been ^{retraced} 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 ^{retraced} 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.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 31st day of May 1901, 1899



Edward Anderson
U. S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Valdese, Utah, April 17 1902 1899

The foregoing field notes of the survey of ^{retraced} the North Boundary and retracement of the South and West Boundaries of Township 42 South Range 16 West of the Salt Lake Base Meridian Utah

executed by Mayhew H. Dalley
under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ^{retraced} surveys they describe, are hereby approved.

Edward Anderson
United States Surveyor General.

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

United States Surveyor General.

BOOK A-286

FIELD NOTES

Rehearsment
OF THE SURVEY OF THE

Subdivisions

of Township 42 South Range 16 West

Of the *Salt Lake Base* and *Meridian*,

State of Utah

AS SURVEYED BY

Wayne H. Dalley, United States Deputy Surveyor,

Under his Contract No. *924*, dated *January 23*, 1899.

Rehearsment Survey commenced *January 31*, 1900, 1899.

Rehearsment Survey completed *February 8*, 1900, 1899.

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Rehearsment *m. dis. obs - 13.45.28 v*

Baromet high *5.34.68 v*
" low *2.65.54 v*

NAMES AND DUTIES OF ASSISTANTS.

Max H. Woodbury	Chairman
Edward J. Hughes	Chairman
Thomas Eric	Messenger
David Dix	Messenger
Thomas Eric	Secretary
David Dix	Secretary
William Macfurlong	Stenographer

For preliminary affidavits see book P. H. 42, S. 1915 W.

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BOOK A-286

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

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



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 }



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 }



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 }



Retracement of Subdivisions of T.42 S.,R.16 W.

Chains. Retracements commenced January 31, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit, for description of which see Notes of Survey of S. bdy. of T.42 S., R.14 W., Book A .

For complete test of solar apparatus see Notes of Survey of W. bdy. of T.42 S., R.16 W., Book R .

Having retraced old exteriors of this Tp. and found the length of lines and courses thereof defective, I deem it advisable to retrace old subdivisions before commencing survey of the unsubdivided portion of the Tp.

January 31, 1900: I set off $37^{\circ}7'N$ on the lat. arc; $17^{\circ}20'S$ on the decl. arc; and, at 8h13m a.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp.

Thence I run

North on a blank line bet. secs. 35 and 36.

40.00 Find no trace of the old $1/4$ sec. cor. after diligent search.

79.32 Fall 154 lks. E. of the old cor. of secs. 25, 26, 35 and 36, which is a black basaltic stone 12x8x5 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run $S. 10^{\circ}7' E.$ on true retracement line bet. secs. 35 and 36.

Descend rapidly over rocky volcanic or basaltic ridge sloping to the S. and S.W.; through scattering greasewood and iron wood undergrowth.

26.50 Foot of ridge about 200 ft. below the sec. cor., and road bears $S. 75^{\circ} E.$ and $N. 75^{\circ} W.$

26.70 Canal 4 ft. wide and 3 ft. deep, drains $S. 75^{\circ} E.$. Enter St. George and Santa Clara Field bears $S. 75^{\circ} E.$ and $N. 75^{\circ} W.$

34.36 Wire division fence bears $N. 80^{\circ} W.$ about 7.00 chs., and $S. 80^{\circ} E.$ about 4.00 chs., thence N.E.

39.67 Set a gray sandstone 16x6x6 ins., 17 ins. in the ground, for re-established $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

<p>Chains.</p> <p>42.82</p> <p>53.70</p> <p>59.60</p> <p>63.60</p> <p>79.34</p>	<p>dist., and raised a mound of earth. 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. The cor. falls in a lucerne patch.</p> <p>Canal about 4 ft. wide and 3 ft. deep, drains S. 65° E.</p> <p>Santa Clara Creek or river about 15 lks wide with clear fresh water about 1 ft. deep, slow current, clay bottom, drains S. 55° E.</p> <p>Field road bears S. 75° W. and N. 75° E.</p> <p>Perpendicular bank S. side of river bottom about 20 ft. high, bears N. 40° W. and S. 70° E.</p> <p>The cor. of secs. 1, 2, 35 and 36, in the field.</p> <p>Land mountainous and broken N. side of river bottom and fields; nearly level in the bottom and fields. Soil, clay stony on the ridge, sandy, clay and loamy in the river bottom and fields; 4th, 2nd. and 1st. rate. No timber except a few cottonwoods and black willow along the Santa Clara River. Greasewood and iron wood undergrowth on the ridges, willows in the river bottom. Mountainous land on 26.50 chs.</p>
<p>40.17</p> <p>79.66</p> <p>26.88</p>	<p>From the cor. of secs. 25, 26, 35 and 36, heretofore described, I run N. 89° 48' W., on a blank line bet. secs. 26 and 35.</p> <p>I find no trace of the old 1/4 sec. cor., after diligent search.</p> <p>Fall 21 lks. S. of the old cor. of secs. 26, 27, 34 and 35, which is a blue lime or basaltic stone in place 24 x 24 x 20 ins. above surface of ground, properly marked with witness monument obliterated. I raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on steep S. slope of rocky ridge.</p> <p>Thence I run S. 89° 39' E., re-establishing the line bet. secs. 26 and 35.</p> <p>Descend over S. and S. E. slope of gravelly and stony ridge, and over broken foot hills.</p> <p>Foot of ridges about 100 ft. below the sec. cor., and</p>

26.50 / 84
50

Retracement of Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. road, bears N. and S. 25° E.
- 27.70 Field Canal about 8 ft. wide and 4 ft. deep, drains S. 25° E. along the foot of ridges. Enter dense rabbit brush brush. undergrowth bears N. and S.
- 33.25 Leave dense rabbit brush undergrowth and enter field bears N. and S.
- 39.30 Descend into river bottom over bank about 20 ft. high bears N. and S. Enter dense willows and cottonwoods.
- 39.32 Wire division fence bears S. 45° W., and N. 45° E., about 30 lks., thence turns N. and E.
- 39.83 Set a volcanic stone 16x10x7 ins., 11 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on N. face; from which
A cottonwood, 8 ins. diam., bears N. 89° 15' E., 31 lks. dist., marked
1/4 S. 26, B. T.
A black willow, 6 ins. diam., bears S. 62° 30' W., 23 lks. dist., marked
1/4 S., 35, B. T.
- 45.09 Santa Clara River about 15 lks. wide and 5 ft. deep, with clear fresh water about 1 ft. deep, slow current, stony bottom, drains S. 15° E.
- 50.84 Bank on E. side of river bottom about 20 ft. high, bears N. 15° W. and S. 15° E.; leave dense willows and cottonwoods; enter pasture and cultivated land.
- 55.54 West foot of volcanic ridge and road bears S. 10° E. and N. 10° W., on E. side of St. George and Santa Clara field and pastures. Ascend abruptly on W. slope of rocky ridge.
- 79.66 The cor. of secs. 25, 26, 35 and 36.
Land mountainous and broken E. and W. side of fields pastures and river bottom; in river bottom and fields and pastures nearly level.
Soil on ridges clay stony and gravelly; 4th. rate; in fields, pastures and river bottom, clay sandy and loamy 1st. and 2nd. rate.
Scattering greasewood and iron wood undergrowth on the ridges; cottonwood, black willow and scrub willow in the river bottom.
Mountainous land, heavily timbered or covered with

68
1166

Retracements of Subdivisions of T.42 S.,R.16 W.-Continued.

Chains, dense undergrowth on 68.00 chs.
 January 31, 1900: At this cor. of secs. 25, 26, 35 and 36,
 I set off $17^{\circ}19'S.$ on the decl. arc; and, at 0h13m p.m.
 observe the sun on the meridian; the resulting lat. is
 $37^{\circ}8' N.$

From the cor. of secs. 26, 27, 34 and 35, heretofore
 described, I run
 North, on a blank line bet. secs. 26 and 27.

40.00 Find no trace of the old $1/4$ sec. cor., after dili-
 gent search.

80.00 Find no trace of the old cor. of secs. 22, 23, 26 and 27,
 after diligent search, which I afterwards re-establish
 at 88 lks. W., and 20 lks. N. of this point, being the
 proportionate distances bet. the $1/4$ sec. cor. bet. secs.
 22 and 23 and the cor. of secs. 26, 27, 34 and 35, and the
 $1/4$ sec. cor., bet. secs. 23 and 26 and the cor. of secs.
 21, 22, 27 and 28, as shown by retracements hereinafter
 described, at

80.20 Set a blue limestone $18 \times 14 \times 3$ ins., 12 ins. in the
 ground, for re-established cor. of secs. 22, 23, 26 and
 27, marked with 2 notches on the S. and E. edges. The
 original bearing tree or willow having been cut down,
 I find the old stump with green shoots growing there-
 from. From which cor. above described,
 A black willow, 7 ins. diam, bears $N. 39^{\circ} 1/2^{\circ} E.$, 260 lks.
 dist., marked
 T. 42 S., R. 16 W., S. 23, B. T.
 Thence I run
 South, $0^{\circ} 38' E.$ on a true line, reestablishing the line
 bet. secs. 26 and 27.
 Gradually descend over nearly level cultivated land
 in the St. George and Santa Clara Field.

88.20 Descend over bank about 15 ft. high on N. side of Santa
 Clara River bottom; bears $S. 70^{\circ} E.$ and $N. 70^{\circ} W.$; enter
 dense willow undergrowth.

22.70 Road in the field bears $N. 70^{\circ} W.$ and $S. 50^{\circ} E.$

25.30 Santa Clara River about 70 lks. wide with perpendicular

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. banks on either side about 12 ft.high,with clear fresh water about 6 ins.deep,slow current,gravelly clay bottom,drains S.80° E.

29.00 Ascend bank about 20 ft.high on S.side of the river bottom,bears N.50°E.and W.;enter large greasewood and rabbit brush undergrowth,continue in dense willows;ascend gradually.

35.00 Canal about 9 lks wide and 4 ft.deep,drains S.25°E.

39.70 Road bears S.25°E.and N.25°W.and runs along the foot of ridges S.side of the St.George and Santa Clara fields and pastures.Begin ascent of E.slope of gravelly and stony ridges;leave dense undergrowth,and enter scattering greasewood and ironwood.

40.10 Set a yellow granite stone 16x8x6 ins.,11 ins.in the ground,for re-established 1/4 sec.cor.,marked 1/4 on W.face;and raised a mound of stone 2 ft .base,1 1/2 ft.high,W.of cor. Pits impracticable.The cor.is near the NE.foot of ridges about 8 links W.of the wagon road last named.

47.00 Top of spur about 50 ft.high,bears S.E.and N.W.; thence over broken ridges with general course of drainage to S.E.

76.70 Top of ridge about 100 ft.above the 1/4 sec.cor., bears N.E.and S.W.;descend abruptly over S.slope of ridge.

80.20 The cor.of secs.26,27,34 and 35.
 Land partly level,partly broken ridges and mountainous.
 Soil in the fields and pastures and river bottom, sandy and loamy clay;1st.and 2nd.rate;on the ridges clay,gravelly and stony,4th.rate.
 No timber except in the river bottom which consists of cottonwood and black willow.
 Mountainous land or dense undergrowth on 58.00 chs.

58
22.20

From point for old cor.of secs.22,23,26 and 27, I continue my line N.bet.secs.22 and 23

40.30 Fall 132 lks E.of the old 1/4 sec.cor.,which is a

Retracement of Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. black lava stone 11x6x4 ins. above ground, marked I/4 on W. face, with witness mound obliterated. I raised a mound of stone 2 ft. base, I 1/2 ft. high W. of cor. Pits impracticable. This distance being used in the re-establishment of the cor. of secs. 22, 23, 26 and 27, above described. Thence I run S. 0°38' E. on a true course bet. secs. 22 and 23 on re-established line. Descend gradually over bench; in sandy gravelly and stony ground; through scattering greasewood and iron wood undergrowth.
- 3.78 Descend about 20 ft. over perpendicular bank into wash about 20 ft. wide carrying small stream of water, drains S., on winding course.
- 10.28 Ascend from wash over bank about 20 ft. high; small stream and wash drains S. 20° E.
- 22.20 Road bears N. 50° W. and S. 50° E.
- 22.98 Wire fence N. side of field and pastures, bears N. 85° W. and S. 85° E.
- 23.98 Canal about 6 ft. wide and 4 ft. deep drains S. 75° E.
- 40.10 The cor. of secs. 22, 23, 26 and 27, as re-established. Land rolling and cut up with washes. Soil, N. of field and pastures, sandy gravelly and stony; 4th. and 3rd. rate; in the field and pastures sandy with some gravel; 1st. and 2nd. rate. No timber, except a few scattering cottonwoods and willows in the field and pastures. Undergrowth and shrubbery with native grasses afford fair grazing N. of field and pastures.
- From point for old cor. of secs. 22, 23, 26 and 27, I run West on a blank line bet. secs. 22 and 27.
- 40.00 Find no trace of the old I/4 sec. cor. after diligent search.
- 81.18 Fall 43 lks. N. of the old cor. of secs. 21, 22, 27 and 28, which is a black lava stone 12x4 ins. above ground,

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. marked and witnessed as described by the Surveyor General.
- N.89°33' E.on line with re-established cor.of secs. 22,23,26 and 27, re-establishing the line bet.secs. 22 and 27.
- Descend gradually over E.slope of ridges; in clay gravelly soil; through scattering sage, greasewood and iron wood undergrowth.
- 6.00 Commence more rapid descent, bears N. and S.
- 9.70 Trail bears N.80°E. and S.80°W.
- 16.90 E. foot of ridges about 100 ft. below the sec. cor., and road bears S.E. and N.W.
- 17.86 Canal about 9 lks. wide and 5 ft. deep, drains S.E. Enter St. George and Santa Clara field and pastures.
- 27.80 Descend over perpendicular bank about 20 ft. high, on W. side of Clara River bottom, bears N.25°W. and S.25°E. Enter dense willow undergrowth and scattering cottonwoods and black willow.
- 33.30 Santa Clara River about 45 lks. wide with banks about 6 ft. high on either side, with clear fresh water about 4 ins. deep, drains S.25°E.
- 40.15 Set a volcanic stone 15x10x5 ins., 10 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
- 45.50 Ascend perpendicular bank 20 ft. high on E. side of river bottom, bears N.80°W. and S.50°E.; leave dense willows and enter dense rabbit brush undergrowth and medium dense cotton woods; thence over nearly level uncultivated land badly cut up with washes.
- 76.00 Wash about 150 ft. wide and 10 ft. deep, drains S.15°W.; leave dense undergrowth and enter cultivated lands.
- 80.29 The cor. of secs. 22, 23, 26 and 27, as re-established. Land broken ridges, W. side of field and pasture; in field and pasture nearly level, but badly cut up with washes.
- Soil, sandy and gravelly and clay on ridges; sandy and loamy in field and pastures; 3rd. 2nd. and 1st. rate. . . Scattering cottonwood and black willow timber in the

65
15.29

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	<p>uncultivated fields and pastures. Mountainous land or land covered with dense under- growth on 65.00 chs.</p>
39.27	<p>From the point for old cor. of secs. 22, 23, 26 and 27, I run East on a blank line bet. secs. 23 and 26. Fall 147 lks. S. of the old 1/4 sec. cor., which is a volcanic stone 10x6x6 ins. above ground, properly marked, with witness points obliterated. I dug pits 18x18x 12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. This distance used in the re-establishment of the cor. of secs. 22, 23, 26 and 27. I continue my line E.</p>
79.40	<p>Fall 93 lks. S. of the old cor. of secs. 23, 24, 25 and 26, which is a black lava stone 12x4x12 ins. above ground, properly marked with witness points obliterated. I dig pits 18x18x12 ins., in each sec., 5 1/2 ft. dist. and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Thence I run S. 89° 21' W., on a true line bet. secs. 23 and 26. Descend gradually over low hills; in white clay alkali soil; through scattering greasewood.</p>
32.42	<p>Road from St. George to the fields bears N. and S.</p>
40.13	<p>The old 1/4 sec. cor. above described. I continue measurements, running on re-established line, S. 89° 37' W.</p>
49.15	<p>Road bears N. 25° E. and S. 25° W.</p>
59.10	<p>Wire fence E. side of field bears N. 50° E. and S. 50° W.; enter St. George and Santa Clara field and pastures; leave bench and low ridges.</p>
70.14	<p>Canal about 6 ft. wide and 2 1/2 ft. deep, drains S. 50° E.; enter cultivated lands.</p>
80.29	<p>The cor. of secs. 22, 23, 26 and 27, as re-established, and above described.</p>

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. Land rolling and broken bench, and nearly level land. Soil, E. of field and pasture, clay and gravelly, with intermixture of alkali, especially on the first 20.00 chs.; 2nd. and 3rd. rate; in fields and pastures, sandy and loamy; 1st. and 2nd. rate.

Undergrowth and shrubbery with native grasses afford fair grazing.

January 31, 1900.

February 1, 1900: I set off $37^{\circ} 28' 40''$ N on the lat. arc; $17^{\circ} 3'$ S on the decl. arc; and, at $9^{\text{h}} 14^{\text{m}}$ a.m., 1. m.t., determine a true meridian with the solar at the cor. of secs. 23, 24, 25 and 26, heretofore described.

Thence I run,

North, on retracement line bet. secs. 23 and 24.

Over clay, sandy and stony ground; through scattering greasewood undergrowth; gradually ascend.

14.00 Foot of black ridge bears $S. 35^{\circ} E.$ and $N. 35^{\circ} W.$; ascend on S.W. slope very rocky.

28.00 Top of ascent on W. slope of ridge, about 100 ft. above the valley which lies W.

31.00 Begin to descend over N.W. slope of ridge.

40.63 Fall 32 links E. of the old $1/4$ sec. cor., which is a black basaltic stone, $10 \times 6 \times 5$ ins. above ground, properly marked, with witness points obliterated. I raised a mound of stone 2 ft. base, $1 1/2$ ft. high, W. of cor. Pits impracticable. The cor. is on N.W. slope of rocky volcanic ridge.

61.00 Foot of ridge about 50 ft. below the $1/4$ sec. cor., bears $S. 35^{\circ} W.$ and $N. 35^{\circ} E.$; thence over nearly level valley in sandy and stony ground.

66.00 Roads from St. George to the fields bears $N. 40^{\circ} E.$ and $S. 40^{\circ} W.$.

73.87 Roads from St. George to Santa Clara bears $N. 65^{\circ} E.$, and $N. 45^{\circ} W.$ about 2.00 chs. crossing bridge at about 50 lks. dist., thence S.W. and W.

74.30 Wash about 15 ft. wide and 10 ft. deep, drains $S. 50^{\circ} W.$.

80.68 Fall 80 lks. E. of the old cor. of secs. 13, 14, 23 and 24,

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	<p>which is a volcanic stone 10x5x5 ins. above ground, properly marked with witness monument obliterated. I raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.</p> <p>The course of this line bet. the secs. corners is therefore N. 0° 34' W.</p> <p>Land partly mountainous and partly nearly level cut up with small washes.</p> <p>Soil, on mountain ridges stony; 4th. rate; in the valley; sandy with some stone and slightly intermixed with gravel; also indications of alkali; 3rd. and 2nd. rate.</p> <p>No timber. Fair grazing.</p> <p>Mountainous land on 47.00 chs.</p>
<p>X</p> <p>2.36</p> <p>3.73</p> <p>11.00</p> <p>11.73</p> <p>13.07</p> <p>21.09</p> <p>22.48</p> <p>30.47</p> <p>31.50</p> <p>39.75</p> <p>39.95</p>	<p>From the cor. of secs. 19, 24, 25 and 30, on the E. bdy. of the Tp. (Pine Valley Guide Meridian), heretofore described, I run</p> <p>West, retracing line bet. secs. 24 and 25.</p> <p>Over nearly level ground, in St. George City; in sandy soil.</p> <p>East side of St. in St. George City, bears N. and S.</p> <p>West side of same Street.</p> <p>N.W. cor. of old house.</p> <p>East side of Street in St. George City, bears N. and S.</p> <p>West side of same Street.</p> <p>East side of St. in St. George City, bears N. and S.</p> <p>West side of same Street.</p> <p>East side of St. on W. side of St. George City, bears N. and S.</p> <p>West side of same Street. E. foot of black ridge bears N. 25° W. and S. 20° E.; begin steep rocky ascent on E. and N.E. slope of ridge.</p> <p>Top of first ridge about 125 ft. above St. George City bears S., and N. 40° W. about 5.00 chs., thence N.</p> <p>Fall 48 lks. N. of the old 1/4. sec. cor., on E. slope of ridge, which is a lava stone 30x14x6 ins., in a mound of stone 22 ins. deep, marked and witnessed as described by the Surveyor General. Course of line S. 89° 19' W.</p>

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. Land E. of ridge nearly level and occupied by St. George city; mountainous W. of the City. Soil in St. George city, rich and sandy, with slight intermixture of alkali; 1st. and 2nd. rate, especially adapted for fruit and vine culture and the raising of early vegetables. On the ridge clay and stony; 4th. rate with shrubbery and grasses which afford fair grazing. No timber, except cottonwood, silver maple, ash, poplar and other trees cultivated as shade trees. Fruit trees and grape vines abound in the orchards and vineyards. Mountainous land on 8.45 chs.

From the point for the cor. of secs. 25, 30, 31 and 36, at 6 lks. W. of the witness cor. heretofore described in Resurvey of Pine Valley Guide Meridian, through T. 42 S., Book O, I run West bet. secs. 25 and 36.

Over nearly level ground and broken ridges; in sandy clay and stony ground; through scattering sage, grease-wood and iron wood undergrowth.

- 6.45 Begin ascent of E. slope of black ridge bears N.W. and S.
- 14.70 Wire fence bears N. 89° 05' E. across the valley.
- 15.70 Top of ridge about 125 ft. above the valley, bears N. 25° W. and S. 40° E.; thence gradually ascend over top of volcanic ridge on E. slope of ridge.
- 33.70 Top of ascent about 150 ft. above the sec. cor., bears N. and S.; descend over W. slope of black ridge.
- 40.00 Find no trace of the old 1/4 sec cor. after diligent search. Set a basaltic stone 18x10x8 ins., 12 ins. in the ground for re-established 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is on W. slope of high black ridge, about 100 ft. below top of ridge. Land nearly level and mountainous.

3853
p. 45

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	Soil, sandy, clay and stony; 3rd. and 4th. rate. No timber. Undergrowth, grasses and shrubbery afford fair grazing. Mountainous land on 33.55 chs. February 1, 1900: At this 1/4 sec. cor., I set off 170 2' S. on the decl. arc; and, at 0h:14 ^m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 8' N.
	From the cor. of secs. 34 and 35, 2 and 3, on the S. bdy. of the Tp. as heretofore described in Notes of Retracements of this S. bdy., Book 5, I run North, on blank line bet. secs. 34 and 35.
39.83	Fall 3.14 chs. E. of the old 1/4 sec. cor., which is a red sandstone 12x8x4 ins. above ground, marked and witnessed as described by the Surveyor General.
79.99	Fall 3.55 chs. E. of the old cor. of secs. 26, 27, 34 and 35, heretofore described; from which cor. I run, S. 0° 35' E. on true line bet. secs. 34 and 35. Descend on S.E. slope of gravelly ridge; through scattering greasewood, sage and iron wood undergrowth.
6.00	Foot of descent about 50 ft. below the sec. cor., bears E. and W.; ascend on N.E. slope of ridge.
15.00	Top of ridge about 75 ft. high, bears N. 70° W. and S. 75° E.; descend over S.W. slope of ridge.
29.75	Hollow at E. foot of ridge about 100 ft. wide and 50 ft. deep, drains S. 30° E., and heads N. 50° W. about 20.00 chs. near top of ridge.; ascend.
37.00	Top of ridge about 50 ft. high, bears E. and W.; descend.
40.17	The old 1/4 sec. cor., heretofore described, in a hollow, about 150 ft. wide and 75 ft. deep, which drains E. and S.E. I continue measurements, running S. 4° 31' E. on a true line. Ascend from hollow.
45.00	Top of ridge about 100 ft. high, bears S. 70° E. and N. 70° W.; descend gradually.

13

Retracements of Subdivisions of T.42 S.R.16 W.-Continued.

Chains.

- 62.50 Trail bears N.80°E. and S.80°W.
- 66.12 Foot of descent about 80 ft. below top of last ridge, at N. foot of ridge, which bears E. and W.; ascend N. slope of ridge.
- 74.12 Top of ridge about 75 ft. high, bears E. and W.; descend
- 80.12 The cor. of secs. 2, 3, 34 and 35 on the S. bdy. of the Tp heretofore described.
- Land, mountainous and broken ridges.
- Soil, sandy, clay and gravelly; 3rd. and 4th. rate.
- No timber.
- Undergrowth, shrubbery and grasses afford fair grazing.
- Mountainous land on 80.12 chs.

From the cor. of secs. 21, 22, 27 and 28, heretofore described, I run

North, bet. secs. 21 and 22, on a blank line.

- 40.00 Find no trace of the old 1/4 sec. cor., after diligent search.

- 79.82 Fall 102 lks. E. of the old cor. of secs. 15, 16, 21 and 22, which is a white sandstone 10x6x4 ins. above ground, partly broken, marks not plain, and bearing trees cut down. The land owners in the vicinity of this cor. claim that the cor. is in its original position. Set a gray boulder stone 18x10x6 ins., 12 ins. in the ground, for re-established cor. of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E. edges, from which a cottonwood 14 ins. diam., bears S. 73°W., 69 lks. dist. marked

T.42 S., R.16 W., S.21, B.T.

Thence I run

S. 0° 44' E. on a true line bet. secs. 21 and 22.

Gradually descend over rich cultivated land, in Santa Clara field and orchards.

- 4.70 Canal about 4 ft. wide and 3 ft. deep, drains S. 50° E.
- 12.40 Descend over bank about 20 ft. high into Santa Clara River bottom, bears S. 40° E. and N. 50° W.; enter dense willow undergrowth, and cottonwood and black willow timber.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 14.70 Santa Clara River or Creek, about 15 lks wide and banks on either side about 6 ft. high, with clear fresh water about 10 ins. deep, clay gravelly bottom medium current, drains S. 20° E. about 2.00 chs., thence S.W.
- 16.35 Willow division fence bears E. and W.
- 17.50 Recross the Santa Clara River, drains S. 20° W. about 1.00 ch., thence S.E.
- 19.85 Recross the Santa Clara River, drains S. 30° E.; ascend bank of creek about 20 ft. high.
- 22.00 Canal about 9 lks. wide and 4 ft. deep, drains S. 50° E. about 1.00 ch., thence S.W., to intersection of line, and thence in a winding course along the line. Leave dense willow undergrowth; enter dense greasewood undergrowth.
- 39.92 Set a gray sandstone 22x10x8 ins., 17 ins. in the ground for re-established 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Leave dense undergrowth; enter scattering sage, greasewood and iron wood undergrowth, bears S.E. and N.W.
- 41.30 Leave canal, drains S. 40° E.
- 42.08 Road on S. side of ^{Santa} Clara fields and pastures, bears S. 40° E. and N. 40° W.
- 43.25 Begin ascent of broken foot hills and ridges, bears S. 40° E. and N. 40° W. about 10.00 chs., thence N.E.
- 50.00 Top of spur on E. slope of ridge about 75 ft. above the 1/4 sec. cor., bears S.E. and N.W.; descend over S.E. slope of ridge very steep and broken.
- 69.40 Hollow about 100 ft. wide and 50 ft. deep, drains S. 40° E. about 30.00 chs. to the Santa Clara River.; ascend
- 77.70 Hollow about 75 ft. wide and 30 ft. deep, drains N. 85° E.
- 79.84 The cor. of secs. 21, 22, 27 and 28, heretofore described. Land in field and pastures nearly level; S. of same mountainous and broken ridges. Soil in fields and pastures, sandy and loamy; 1st. and 2nd. rate; on the ridges, clay, stony and gravelly; 3rd. and 4th. rate. No timber except cottonwoods and black willow along

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. ^{Santa} the Clara River bottom, and scattering cottonwoods in the fields and pastures.

Mountainous land or dense undergrowth on 64.00 chs.
February 1, 1900.

Begin at re-established cor. of secs. 15, 16, 21 and 22, heretofore described, and run West on retracement line bet. secs. 16 and 21. Descend gradually over nearly level land in Santa Clara field, orchards and pastures.

.50 Canal about 6 lks. wide and 4 ft. deep, drains S. about 6.00 chs., thence S.E.

10.25 Descend into Santa Clara River bottom, which bears S. 60° E. and N. 65° W.; enter dense willow undergrowth, and scattering cottonwoods and black willow timber.

19.83 Santa Clara River about 75 lks. wide with banks on either side about 3 ft. high, slow current, sandy, gravelly bottom, fresh water about 4 ins. deep, drains S. 40° E.

21.60 Canal about 6 ft. wide and 4 ft. deep, drains S. 30° E.

23.75 Road from fields to Santa Clara bears S. 20° E. and N. 20° W.

24.10 Canal about 9 lks. wide and 5 ft. deep, drains S. 20° E.; leave dense willows and cottonwoods and black willows. Begin ascent of N.E. and N. slope of broken ridges; enter scattering greasewood, sage and iron wood undergrowth.

40.14 Fall 12 lks. N. of the old 1/4 sec. cor., which is a blue limestone 10x6x4 ins. above ground, marked and witnessed as described by the Surveyor General.

61.00 Hollow about 200 ft. wide and 75 ft. deep, drains S. 70° E.; ascend E. slope of ridge very steep and rocky.

61.75 Trail bears N. 25° E. and S. 25° W.

69.00 Top of spur on N. slope of ridge about 150 ft. above the valley, bears N. 25° E. and S. 25° W. thence ascend more gradually.

80.28 Fall 33 lks. N. of the old cor. of secs. 16, 17, 20 and 21, which is a white sandstone 17x8x8 ins., 12 ins. deep.

70
10-28

Retracements of Subdivisions of T.42 S., R.16 W. - Continued.

Chains.	<p>in a mound of stones, properly marked with witness mound obliterated. I raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The course of this line bet. the sec. cors. is therefore, S. 89° 46' W.</p> <p>Land partly nearly level, and partly mountainous and broken ridges.</p> <p>Soil, in the fields and pastures, sandy and loamy; 1st. and 2nd. rate; on the ridges clay and gravelly; 3rd. and 4th. rate.</p> <p>No timber except cottonwoods, and black willow in the river bottom and scattering cottonwoods along the field canals and irrigation ditches.</p> <p>Undergrowth, shrubbery and grasses afford fair grazing on the ridges.</p> <p>Mountainous land or dense undergrowth on 70.00 chs.</p>
40.00 80.12 24.50 27.50 28.70	<p>From the old cor. of secs. 16, 17, 20 and 21, above described, I run</p> <p>North, on a blank line bet. secs. 16 and 17.</p> <p>Find no trace of the old 1/4 sec. cor. after diligent search.</p> <p>Fall 121 lks. E. of the old cor. of secs. 8, 9, 16 and 17, which is a volcanic boulder stone 10x6x4 ins. above ground, properly marked, with witness points obliterated. I dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist., and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.</p> <p>Thence I run</p> <p>S. 00° 52' E., reestablishing line bet. secs. 16 and 17.</p> <p>Descend over S. slope of Santa Clara Bench and broken ridges; in sandy, clay and gravelly soil; through scattering greasewood and cactus undergrowth.</p> <p>Begin abrupt descent over S. slope of broken bench, about 50 ft. below the sec. cor., bears E. and W.</p> <p>Enter Santa Clara Town at foot of bench, about 150 ft. below the sec. cor., bears S. 80° E. and N. 80° W.</p> <p>a house bears E., about 40 lks. dist.</p>

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 29.28 North side of Santa Clara Street, bears S.80°E. and N. 80°W.
- 29.78 S. side of same street, Enter Santa Clara farms and orchards.
- 30.05 Canal about 9 lks. wide and 3 ft. deep, drains E.
- 34.35 Leave field and enter pastures and wooded lands in river bottom, bears S.65°E. and N.65°W. Enter dense willow undergrowth, thick cottonwoods and black willow.
- 36.00 Santa Clara River about 30 lks. wide with banks on either side about 4 ft. high, clear water about 1 ft. deep, drains S.60°E.
- 40.06 Set a red sandstone 15x10x8 ins., 10 ins. in the ground for re-established 1/4 sec. cor., marked 1/4 on W. face; from which
A cottonwood 10 ins. diam, bears S.45 1/2° E. 22 lks. dist., marked
1/4 S.16, B.T.
- 42.35 Fence bears E. and W.; leave dense undergrowth and cottonwood and black willow timber. Enter low bench in field S. side of river bottom.
- 46.30 Road bears S.60°E. and N.60°W.
- 56.38 Wire fence on S. side of fields and pastures, bears N. 75°W. and S.75° E.; leave fields and pastures.
- 59.00 Begin ascent of broken ridges bears E. and W.
- 64.00 Top of ascent on N.E. slope of ridge about 75 ft. above the foot of ridge, bears E. and W.; descend over S.W. slope of ridge.
- 64.58 Trail bears S.35°W. and N.35°E.
- 68.00 Ravine at foot of ridge about 50 ft. wide and 10 ft. deep, drains N.45°E.; heads S.15°W. about 6.00 chs. dist. ascend N. slope of ridge.
- 80.12 The cor. of secs. 16, 17, 20 and 21, heretofore described. Land mountainous and broken ridges and nearly level bottom and bench land.
Soil on the ridges and benches sandy, clay, gravelly and stony; 3rd. and 4th. rate; in the valley, sandy and loamy and used by the inhabitants of Santa Clara for farms, vineyards, orchards and pasturage; 1st. and 2nd. rate.

3300
4712

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. No timber except along the river bottom, which consists of cottonwood and black willow.

Undergrowth, shrubbery and grasses on the benches and ridges afford fair grazing.

Mountainous land or dense undergrowth on 33.00 chs.

February 2, 1900: At this cor. I set off $16^{\circ}44'30''$ S. on the decl. arc; and, at 0h14^m p.m., l.m.t. observe the sun on the meridian; the resulting lat. is $37^{\circ}0'30''$ N.

From the cor. of secs. 8, 9, 16 and 17, heretofore described, I run

West on a blank line bet. secs. 8 and 17.

40.00 Find no trace of the old $1/4$ sec. cor. after diligent search.

80.56 Fall 86 lks. N. of the old cor. of secs. 7, 8, 17 and 18, which is a white sandstone 12x8x5 ins. above ground, marked and witnessed as described by the Surveyor General.

February 2, 1900: At this sec. cor., I set off $37^{\circ}10'$ N. on the lat. arc; $16^{\circ}53''$ S. on the decl. arc; and, at 2^h p.m., l.m.t., determine a true meridian with the solar. Thence I run,

N. $89^{\circ}23'$ E. on a true line bet. secs. 8 and 17.

Gradually ascend over top of Santa Clara bluff; in clay, sandy and gravelly soil; through medium dense greasewood, scattering cactus and iron wood undergrowth.

15.00 Top of ascent about 50 ft. above the sec. cor., bears N.W. and S.E.; descend over N.E. slope of broken ridges.

23.00 Ravine at N.E. foot of ridge about 25 ft. wide and 8 ft. deep, and 60 ft. below top of ridge, drains E.; heads N. 80° W. about 10.00 chs. dist.; thence gradually descend along course of ravine.

40.28 Set a red sandstone 12x8x6 ins., 8 ins. in the ground, for re-established $1/4$ sec. cor., marked $1/4$ on N. face; and raised a mound of stone 2 ft. base, 1 $1/2$ ft. high N. of cor. Pits impracticable. The cor. is on the S. side of ravine last described.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	No. 11
42.70	Ravine 100 ft. wide and 15 ft. deep, drains S. 40° E. about 15.00 chs. to Santa Clara River.
46.10	Road from St. George and Santa Clara to Bunkerville. bears S. 65° E. and N. 60° W.; ascend S.W. slope of ridge.
49.90	Santa Clara Cemetery bears N. 40° E. about 5.00 chs. dist.
53.45	Road from Santa Clara to the Cemetery bears N. and S.
74.00	Top of ascent on Santa Clara bench bears N. and S.; thence over rolling top of bench.
79.80	Old road bears S. 30° E. and N. 30° W.
80.56	The cor. of secs. 8, 9, 16 and 17, heretofore described.
59.00	Land mountainous and broken ridges.
21.56	Soil, sandy, clay and gravelly; 3rd. and 4th. rate.
	No timber.
	Grasses and shrubbery afford good grazing.
	Mountainous land on 59.00 chs.
<hr/>	
	From the cor. of secs. 7, 8, 17 and 18, heretofore described, I run
	North, on a blank line bet. secs. 7 and 8.
40.00	Find no trace of the old 1/4 sec. cor. after diligent search.
80.63	Fall 102 lks. E. of the old cor. of secs. 5, 6, 7 and 8, which is a red sandstone 12x4x4 ins. above ground, properly marked, with witness points obliterated. I dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Thence I run,
	S. 00° 44' E., reestablishing the line bet. secs. 7 and 8.
	Ascend gradually; in sandy clay and gravelly soil; through scattering greasewood, sage, cactus and iron wood undergrowth.
20.08	Top of ascent on Santa Clara bench, about 50 ft. above the sec. cor., bears N. E. and S. W.; descend over S. W. slope of broken ridges.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 23.98 Road from St. George and Santa Clara to Bunkerville. bears S. 55° E. and N. 55° W.
- 27.58 Ravine at foot of ridge about 50 ft. wide and 70 ft. deep, drains S. 55° E. and heads N. 55° W. about 80.00 chs. dist. Ascend over broken ridges on Santa Clara bluff.
- 32.28 Trail bears N. 50° W. and S. 50° E.
- 40.37 Set a volcanic stone 15x10x3 ins., 10 ins. in the ground, for re-established 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. The cor. is on S. E. slope of ridge on top of Santa Clara bluff.
- 44.58 Ravine about 50 ft. wide and 20 ft. deep, drains E. about 30.00 chs., thence S. E. heads N. 60° W. about 40.00 chs.
- 58.60 Top of ascent about 75 ft. above the 1/4 sec. cor., bears S. E. and N. W.; descend gradually over top of bluff.
- 80.63 The cor. of secs. 7, 8, 17 and 18, heretofore described. Land mountainous and broken ridges and bench land. Soil, sandy clay and gravelly; 3rd. and 4th. rate. No timber. Undergrowth, grasses and shrubbery afford good grazing. Mountainous land on 80.63 chs.

- Begin at the cor. of 1, 6, 7 and 12 on the W. bdy. of the Tp., as heretofore described, and run East, on retracement line bet. secs. 6 and 7. Over rocky, gravelly and sandy ground; through medium dense greasewood, sage, iron wood and cactus undergrowth. Descend over N. E. slope of Santa Clara bluff.
- 40.50 Fall 46 lks. S. of the old 1/4 sec. cor., which is a white sandstone 12x3x6 ins. above ground, marked and witnessed as described by the Surveyor General.
- 42.00 Road from St. George and Santa Clara to Bunkerville at foot of descent in a hollow, about 100 ft. below the

21

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. section cor., bears S.E. and N.W.; hollow drains S.E. Ascend from road and hollow.

47.00 Top of ascent on Santa Clara bench, bears S.E. and N.W. leave gravelly soil and enter rich sandy soil. Gradually ascend over rolling bench.

81.14 Fall 93 lks. S. of the old cor. of secs. 5, 6, 7 and 8, heretofore described; and course of line N. 89° 20' E. Land mountainous, broken ridges and rolling bench. Soil, sandy, stony, gravelly and rich sandy soil; 3rd. 4th. and 2nd. rate..

No timber.

Undergrowth, grasses and shrubbery afford splendid grazing, especially on the Santa Clara bench.

Mountainous land on 47.00 chs.

February 2, 1900.

February 3, 1900: I set off 37° 9' 30" N. on the lat. arc; 16° 28' 30" S. on the decl. arc; and, at 9^h 14^m a.m., 1. m.t., determine a true meridian with the solar at the cor. of secs. 13, 14, 23 and 24, heretofore described; thence I run

North, retracing line bet. secs. 13 and 14.

Over nearly level sandy and stony ground; through scattering greasewood and iron wood undergrowth. Gradually ascend.

10.38 Road from St. George to ranches bears S. 35° E. and N. 35° W.

19.03 Hollow about 50 ft. wide and 10 ft. deep and small stream of water, about 2 lks. wide and 2 ins. deep, drains S. 60° W.

25.93 Road from St. George to ranches and farms, bears S. 40° E. and N. 40° W. Begin to ascend S.W. slope of black volcanic ridge, bears N. 30° W. and S. 30° E.

40.03 Fall 51 lks. E. of the old 1/4 sec. cor., which is a black lava stone 14x6x6 ins. above ground, marked and witnessed as described by the Surveyor General.

The course of this line is therefore N. 00° 44' W.; and the distance bet. corners 40.03 chs. This cor. is on W. slope of volcanic ridge about 75 ft. above the sec. cor.

47
34.14

14.10
25.93

Retracements of Subdivisions of T.42 S., R.16 W.-Continued

Chains. Land nearly level and mountainous.

Soil, sandy and stony; 3rd. and 4th. rate.

No timber.

Shrubby, undergrowth and grasses afford fair grazing.

Mountainous land on 14.10 chs.

From the cor. of secs. 13, 14, 23 and 24, heretofore described, I run West, bet. secs. 14 and 23.

Over rolling ground; in sandy and gravelly soil; through scattering greasewood, sage, iron wood and cactus undergrowth.

Descend gradually.

40.25 Fall 18 lks. N. of the old 1/4 sec. cor., which is a black lava stone 10x3x5 ins. above ground, marked and witnessed as described by the Surveyor General.

80.50 Fall 42 lks. N. of the old cor. of secs. 14, 15, 22 and 23, which is a blue limestone 12x10x5 ins. above ground, properly marked, with witness points obliterated.

I dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high W. of cor. The course of this line is therefore S. 89° 42' W.

Land rolling sandhills and ridges, cut with small washes

Soil, sandy and gravelly; 2nd. and 3rd. rate.

No timber.

Undergrowth, shrubby and grasses afford good grazing.

From the cor. of secs. 14, 15, 22 and 23, heretofore described, I run

North, retracing line bet. secs. 14, and 15.

Ascend gradually over rolling and broken ridges and sandhills; in sandy, clay and gravelly soil; through scattering greasewood and cactus undergrowth.

10.90 Road from Santa Clara to Modena by way of Dodge's springs bears S.W. and N.E.

36.50 Wash 20 ft. wide and 7 ft. deep, drains S. 35° W.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

40.00 Find no trace of the old $1/4$ sec.cor.after diligent Search.Set a white sandstone $17 \times 10 \times 4$ ins., 12 ins.in the ground,for re-established $1/4$ sec.cor.,marked $1/4$ on W.face;dug pits $18 \times 18 \times 12$ ins.,N.and S.of stone 3 ft.dist.,and raised a mound of earth,3 $1/2$ ft.base,1 $1/2$ ft.high,W.of cor.
Land,rolling sand and clay hills and ridges.
Soil,sandy,clay and gravelly;2nd.and 3rd.rate.
No timber.
Good grazing.
Note:-This cor.is not at the foot of high ridge as stated in the original field notes,but in rolling clay ridges on a low bench.

From the cor.of secs.14,15,22 and 23,heretofore described,I run $S.59^{\circ}12'W.$ on retracement line bet.secs.15 and 22. Descend over rolling sandhills and clay ridges; through scattering greasewood,iron wood and cactus undergrowth.

12.50 Road from Santa Clara to Diamond Valley and Modena by way of Dodge's springs,bears $S.61^{\circ}W.$ and $N.30^{\circ}E.$

21.40 Hollow about 4.00 chs.wide and 40 ft.deep,drains S. Ascend from hollow.

27.00 Top of ascent on N.point of gravelly ridge about 40 ft.above the hollow,bears N. and S.;descend on S. slope of ridge.

32.70 Volcanic wash about 4.00 chs.wide and 50 ft.deep, drains $S.20^{\circ}E.$;road in wash follows course of wash. The St.George and Santa Clara road running E.and W., crosses wash at about 5.00 chs., $S.20^{\circ}E.$

40.05 Fall 15 lks.N.of the old $1/4$ sec.cor.,which is a lava stone $10 \times 6 \times 4$ inc.above ground,properly marked, with witness points obliterated.I dug pits $18 \times 18 \times 12$ ins.E.and W.of stone,3 ft.dist.,and raised a mound of earth,3 $1/2$ ft.base,1 $1/2$ ft.high,N.of cor.
The cor.is on W.bank of wash. Old brush fence crosses

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	Wash E. and W. at about 1.00 ch. N. of cor.
43.25	Enter lava bed which bears N. and S.
58.25	Leave lava bed bears N. 35° W., and S. 5.00 chs., thence S. 50° W.; descend gradually.
60.33	Road from St. George to Santa Clara, bears S. 60° E. and N. 60° W.
61.13	Wire fence E. side of Santa Clara fields orchards and pastures, bears S. 60° E. about 6.00 chs., thence S.; about 3.00 chs., thence W.; and N. 60° W. enter cultivated lands.
64.40	Stone wall bears N. 35° W. about 3.00 chs., thence N. 60° W., and S. 35° E.; small grove of cottonwood trees on line.
75.50	Peach orchard about 1.00 ch. wide E. and W. and about 5.00 chs. long, bears N. 15° W. and S. 15° E.
80.46	Full 29 lks. N. of the old cor. of secs. 15, 16, 21 and 22, as heretofore re-established and described. The course of the line bet. the sec. cors. is, therefore, S. 89° 40' W. Land rolling sandhills and ridges cut up with hollows and nearly level cultivated lands. Soil on sandhills and ridges, sandy, gravelly, clay and stony; 2nd, 3rd, and 4th. rate; in the fields and orchards, sandy and loamy 1st. and 2nd. rate. No timber, except scattering cottonwoods in the fields. Fair grazing on the ridges and sandhills. February 3, 1900: At this sec. cor., I set off 16027' S. on the decl. arc; and, at 0h 14m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 30' N.
	From the cor. of secs. 15, 16, 21 and 22, above described, I run North, on retracement line bet. secs. 15 and 16. Ascend gradually over nearly level cultivated land in Santa Clara field.
13.45	Fence and road bears N. W. and S. E.; leave field and enter bench land.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	
27.90	Foot of higher bench slope about 75 ft. above the sec. cor., bears E. and W., ascend more rapidly.
39.98	Fall 20 lks. E. of the old 1/4 sec. cor., which is a blue limestone 10x6x4 ins. above ground, marked and witnessed as described by the Surveyor General.
66.20	Enter volcanic ridges bear N.
79.98	Fall 46 lks. E. of the old cor. of secs. 9, 10, 15 and 16, which is a black lava stone 24x16x8 ins., 18 ins. deep in a mound of stone, marked and witnessed as described by the Surveyor General. The course of this line is therefore N. 00° 20' W., bet. the sec. corners.
	Land, nearly level in the field, broken on the ridges and bench.
	Soil in the field rich sandy and loamy; 1st. and 2nd. rate; on the ridges and bench; sandy and stony; 3rd. and 4th. rate.
	No timber, except scattering cottonwoods in the field. Undergrowth, grasses and shrubbery on the ridges and benches afford good grazing.
	February 3, 1900.
	From the cor. of secs. 8, 9, 16 and 17, heretofore described, I run East, retracing line bet. secs. 9 and 16. Over rolling land on Santa Clara bench; in sandy and stony ground; through medium dense greasewood, sage iron wood and cactus undergrowth.
29.86	Trail bears S. 30° E. and N. 30° W.
35.18	Road bears S. E. and N. W.
40.50	Fall 43 lks. S. of the old 1/4 sec. cor., which is a red sandstone boulder 10x6x4 ins. above ground, marked 1/4 on N. face, with witness points obliterated; I dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
61.00	Dry bed about 20 ft. wide and 6 ft. deep, drains N. E.

Retracements of Subdivisions of T.42 S.,R.16 W.-Continued.

Chains.	<p>65.80 Enter lava ridges bears N.E. and S.W.</p> <p>80.30 Fall 193 lks. S. of the old cor. of secs. 9, 10, 15 and 16, heretofore described.</p> <p>The course of the line bet. the sec. corners is, therefore, N. 89° 20' E.</p> <p>Land, rolling bench and lava ridges or lava bed, with general slope to E. and S.E.</p> <p>Soil, on W. of lava ridges, sandy with slight intermixture of gravel; 2nd. rate; on the ridges stony; 4th. rate.</p> <p>No timber.</p> <p>Good grazing W. of the lava ridges; on the lava ridges there is very little soil.</p>
	<p>From the cor. of secs. 8, 9, 16 and 17, above described, I run</p> <p>North, retracing line bet. secs. 8 and 9.</p> <p>Gradually ascend over rolling bench; in sandy and gravelly soil; through scattering greasewood, iron wood and cactus undergrowth.</p> <p>12.00 Top of ascent about 25 ft. above the sec. cor., bears S.E. and N.W.; descend gradually over N.E. slope of bench.</p> <p>37.12 Road bears N.W. and S.E.</p> <p>41.30 Fall 54 lks. E. of the old 1/4 sec. cor., which is a red sandstone 8x5x4 ins. above ground, properly marked, with witness points obliterated. I dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.</p> <p>59.00 Wash or dry bed about 20 ft. wide and 12 ft. deep, drains S. 70° E.;</p> <p>72.00 Hollow about 15 ft. wide and 15 ft. deep, drains S.E.; ascend along winding hollow.</p> <p>81.17 Fall 105 lks. E. of the old cor. of secs. 4, 5, 8 and 9, which is a red sandstone 8x5x4 ins. above ground, properly marked, with witness points obliterated.</p> <p>I dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.;</p>

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. and raised a mound of earth, 5 ft. base, 2 ft. high, W. of cor. The course of line is therefore N. 00° 45' W. Land rolling bench and low ridges and known as the Santa Clara Bench. Soil, sandy and gravelly; 2nd. and 3rd. rate. No timber. Undergrowth, shrubbery and grasses afford excellent grazing, especially when supplied with sufficient moisture. February 5, 1900: At this sec. cor., I set off 15° 51' S. on the decl. arc; and, at 0h 14^m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 11' N.

February 5, 1900: At the cor. of secs. 4, 5, 8 and 9, above described, I set off 37° 11' N. on the lat. arc; 15° 49' S. on the decl. arc; and determine a true meridian with the solar, at 2^h 14^m p., m., l.m.t.

Thence I run East, retracing line bet. secs. 4 and 9. Over rolling and broken sandy, gravelly bench; through scattering cactus and greasewood undergrowth. 1.58 Wash 60 ft. wide and 8 ft. deep, drains S. 10° E. 20.83 Hollow about 150 ft. wide and 20 ft. deep, drains S. 10° E. 29.33 About 6.00 chs. N. of line is old mineral location monument and prospect shaft. Slight traces of silver and copper in shaft. 35.33 Enter lava bed, bears N. 50° W. about 25.00 chs., thence N., and S. 60° W. 37.80 About 175 chs. N. of line is an old location monument, with slight indications of copper and silver ores. 39.33 About 1.75 chs. N. of line is an old location monument. 40.00 Find no trace of the old 1/4 sec. cor. after diligent search. Set a red sandstone 15x10x6 ins., 10 ins., in the ground, for re-established 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is in lava beds or ridges.

Retracements of Subdivisions of T.42 S., R.16 W.-Continued.

Chains. Land rolling and broken bench and lava bed or ridges.
Soil, sandy and gravelly W. of lava bed; stony in lava bed or ridges; 2nd. and 4th. rate.
No timber.
Good grazing.

From the cor. of secs. 4, 5, 8 and 9, heretofore described, I run North, $0^{\circ}12'$ W. on retracement line bet. secs. 4 and 5. Ascend gradually over rolling bench; in rich sandy soil; through scattering greasewood and medium dense cactus undergrowth.

39.90 Fall 2 lks. E. of the old $1/4$ sec. cor., which is a red sandstone $12 \times 4 \times 6$ ins. above ground, marked and witnessed as described by the Surveyor General.

80.16 Fall 10 lks. E. of the old cor. of secs. 4, 5, 32 and 33, heretofore described in Notes of Resurvey and Retracements of the N. bdy. of this Tp., Book *S*.

The course of this line bet. the sec. corners is therefore, N. $00^{\circ}16'$ W.

Land rolling.

Soil, sandy and gravelly; 2nd. rate.

No timber.

Undergrowth, shrubbery and grasses afford good grazing.

February 5, 1900.

GENERAL DESCRIPTION.

For General Description see Notes of the Subdivisions of this Tp.

February 5, 1900.

Matthew H. Galley
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 Mayhew H. Dalley

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of retracement of subdivisions of T.42 S., R.15 W. and T.42 S., R.16 W. of the Salt Lake Base and Meridian, State of Utah,

showing the respective capacities in which they acted:

- Max W. woodbury Chainman.
- Edward J. Higbee, Chainman.
- Thomas Urie, Moundman.
- David Dix, Moundman.
- Thomas Urie, Axman.
- David Dix, Axman.
- William Macfarlane, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley

....., United States Deputy Surveyor, in ^{retracing} ~~surveying~~ all those parts or portions of the subdivisions of T.42 S., R.15 W. and subdivisions of T.42 S., R.16 W.

..... of the Salt Lake Base and meridian, State of Utah

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

General for Utah,

- Max W. Woodbury Chainman.
- Edward J. Higbee Chainman.
- Thomas Urie Moundman.
- David Dix Moundman.
- Thomas Urie Axman.
- David Dix Axman.
- William Macfarlane Flagman.

Subscribed and sworn to before me this 4th day of April, 1891900.

Senora G. Dalley
Notary Public.

My Commission Expires
March 20th, 1903



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, A. D., 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~~ ^{retraced} all those parts or portions of the subdivisions of T. 42 S., R. 16 W.

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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 31st day of May, A. D. 1901, 1899

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



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1901
The foregoing field notes of the survey of ~~the subdivisions of Township~~ ^{retracement} 4.2 South Range 16 West of the Salt Lake Base & Meridian Utah

executed by Mayhew H. Dalley
under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and ~~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

191
4-679.

U.

BOOK A-286

191

v. 3. 16.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of
Township 42 South Range 16 West

of the *Nath Lake Base and* Meridian,

State of Utah

AS SURVEYED BY

Matthew H. Valley, United States Deputy Surveyor,

Under his Contract No. *294*, dated *January 23*, 1899

Survey commenced *February 6th* *1900*, 1899

Survey completed *February 15th* *1900*, 1899

6-161

211.50
29-57-57 ✓
5-24-47 ✓
38.18 ✓

NAMES AND DUTIES OF ASSISTANTS.

Max W. Madler

Chairman

Edward J. Sigbee

Chairman

Thomas Eric

Messenger

David Dix

Messenger

Thomas Eric

Clerk

David Dix

Clerk

William H. Hartman

Flagman

For preliminary off. David on book P 42 S 15-17

G-151

Volume

#

R0286

BOOK A-286

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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



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 _____ }



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 _____ }



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 _____ }



Subdivisions of T.42 S., R.16 W.

Chains.

Survey commenced February 6, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit for description of which see Notes of Survey of S. bdy. of T. 42 S., R. 14 W., Book A.

For complete test of solar apparatus see Notes of Survey of W. bdy. of T. 42 S., R. 16 W., Book R.

February 6, 1900: I set off $370^{\circ} 08'$ N. on the lat. arc; $150^{\circ} 34'$ S. on the decl. arc; and, at 8h14^m a.m., l.m.t., determine a true meridian with the solar, at the old cor. of secs. 25, 26, 35 and 36, heretofore described. Thence I run

North, on a random line bet. secs. 25 and 26.

40.00 Set temp. 1/4 sec. cor.

81.30 Fall 49 lks. E. of the old cor. of secs. 23, 24, 25 and 26, heretofore described in Book T.

Thence I run

$S. 00^{\circ} 21'$ E. on a true line bet. secs. 25 and 26.

Gradually ascend over nearly level ground; in clay soil; through scattering greasewood and iron wood undergrowth.

12.00 N.W. foot of volcanic or basaltic ridge, bears $S. 75^{\circ} W.$ about 8.00 chs., thence turns S., and $N. 15^{\circ} E.$; ascend steep rocky N.W. slope of ridge.

37.00 Top of ascent on W. slope of ridge about 300 ft. above the sec. cor., bears E. and W.; thence ascend gradually over W. slope of ridge descending very rapidly to W.

38.00 Stone wall bears $S. 80^{\circ} W.$ about 12.00 chs., thence N. 500 W.

41.30 Set a black volcanic stone 20x10x5 ins., 15 ins. deep, in a mound of stone, for 1/4 sec. cor. on E. bdy. of sec. 26, marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. This cor. is on W. slope of ridge about 350 ft. above N.W. foot of ridge, near top of ridge in large volcanic boulders.

58.00 Top of ascent about 50 ft. above the 1/4 sec. cor., bears S.E. and N.W.; descend over rocky and broken S.W. slope.

Subdivisions of T.42 S.,R.16 W.-Continued.

Chains.

- 80.00 Road from St. George to Stone quarries near by at S.W. foot of upper black ridge, bears Southeasterly about 4.00 chs., thence curves around point of ridge and takes a general Northeasterly course to St. George.
- 81.30 The old cor. of secs. 25, 26, 35 and 36, heretofore described.
- Land partly level, but mostly broken mountain ridges. Soil N. of the ridge clay; 2nd. rate; on the ridges stony with very little soil; 4th. rate.
- No timber.
- Fair grazing where the soil has lodged bet. the rocks; and also along the top of ridge and along the foot hills N. and W.
- Stone quarries along the road in the vicinity of the cor. furnish an excellent quality of basaltic building stone.
- Mountainous land on 69.30 chs.

Knowing from previous retracements on the old exteriors of secs. 25 and 36, that a closing cor. will be necessary on the E. bdy. of sec. 26, I begin at the re-established 1/4 sec. cor., bet. secs. 25 and 36, heretofore described, and run West, on a true line, completing the boundary bet. secs. 25 and 36.

Descend over N.W. slope of black ridge; in stony and sandy-clay ground; through scattering greasewood and iron wood undergrowth.

- 85.80 Foot of ridge about 75 ft. below the 1/4 sec. cor., bears S. 45° W.; and N. 10° E. Wash at foot of ridge about 20 ft. wide and 6 ft. deep, drains S.W., and heads N. 10° E. about 40.00 chs., near top of ridge. Ascend.
- 87.62 Trail bears N. 30° E. and S. 30° W.
- 20.20 Road from St. George to the quarries bears N. 35° E., and S. 35° W., about 4.00 chs., thence curves around point of ridge.
- 88.80 Top of S. point of ridge about 350 ft. high, bears S.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains. about 2.00 chs. thence breaks off abruptly and N.
 Descend over broken ledges and large volcanic boulders on S.W. slope of ridge.

4I.25 Road from St. George to the quarries bears S.E. and curves to the North around point of mountain.

4I.60 Intersect N. and S. line on E. boundary of sec. 26, at 1.98 chs., N. $0^{\circ}21'$ W. from the old cor. of secs. 25, 26, 35 and 36, heretofore described.

Set a black basaltic stone 20x12x6 ins., 15 ins. in the ground, for closing cor. of secs. 25 and 36, marked C.C. on the E. with 5 notches on N. and 1 notch on S. and E. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, E. of cor. Pits impracticable.

I obliterate the marks on the old cor. of secs. 25, 26, 35 and 36, that pertain to secs. 25 and 36, and re-mark the same for cor. of secs. 26 and 35 only.

Land mountainous and very rough and broken covered covered principally with large volcanic boulders. Soil, sandy, clay and stony; 4th. rate.

Grazing along the foot and on top of ridges fair.

No timber.

Mountainous land on 4I.60 chs.

February 6, 1900: At this closing cor., I set off 150 32' 30" S. on the decl. arc; and, at 0h14m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 8' N.

From the cor. of secs. 23, 24, 25 and 26, heretofore described in retracements of subdivisions of this Tp., I run

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

4I.22 Fall 6 lks. S. of the old 1/4 sec. cor. heretofore described.

Thence I run S. $89^{\circ}55'$ W. on a true line, completing the survey of the boundary bet. secs. 24 and 25.

Ascend over N.E. and E. slope of high black ridge; through scattering greasewood and iron wood undergrowth growth.

Subdivisions of T.42.S.,R.16 W.-Continued.

Chains.

- 17.25 Top of black ridge about 150 ft. above the 1/4 sec. cor., bears N.150W. and S.300 E.
The "Mormon" Temple in St. George City, bears S.61° E. about 110.00 chs. dist. This structure is built of a fine quality of white sandstone or granite.
The new public school house being constructed of red sandstone and a fine quality of basaltic stone taken from the quarries in secs. 25 and 26, bears S.78°30' E. about 77.00 chs. dist. The County Court House in St. George City bears S.89°45' E. about 72.50 chs. dist. The Smelter on N. side of St. George City, bears N.120 E. about 55.00 chs. dist.
- 18.70 Trail bears N.25° W. and S.25° E.
- 19.75 Begin abrupt descent over rocky W. slope of black ridge, bears N. and S.
- 38.00 West foot of black volcanic ridge about 250 ft. below top of ridge bears N.150W. and S.150 W.; thence gradually descend over clay gravelly bottom in the valley.
- 41.22 The cor. of secs. 23, 24, 25 and 26, heretofore described.
Land mostly mountainous and broken; a few chains W. of ridge in valley, nearly level.
Soil, clay, gravelly and mostly stony; 4th. and 3rd. rate.
No timber.
Fair grazing on the ridges and along the foot hills.
Mountainous land on 38.00 chs.

From the 1/4 sec. cor. bet. secs. 13 and 14, heretofore described in notes of retracements of subdivisions of this Tp., I run

North, 00 1' W. on a true line bet. secs. 13 and 14. Ascend on W. and N.W. slope of black volcanic ridge; over clay, sandy, stony ground; through scattering greasewood, rabbit brush and iron wood undergrowth.

- 5.00 Top of ascent on point of ridge about 50 ft. above the 1/4 sec. cor., bears N.W. and S.E.; descend over N.E. slope of ridge.

- 12.91 Hollow at foot of ridges about 75 ft. below top of

Subdivisions of T.42 S., R.16 W. - Continued.

Chains. last ridge, about 50 ft. wide and 10 ft. deep, with small seepage of water drains S. 50° W.; ascend over broken sandstone ledges and ridges very rough.

18.40 Ashby Spring with clump of cottonwood trees bears W. about 6.00^p near W. foot of ridges.

35.40 Top of ridge about 75 ft. high, bears N. W. and S. E. descend rapidly over N. E. slope of ridges.

39.06 S. foot of perpendicular ledges about 70 ft. high at N. E. foot of ridge, and about 100 ft. below top of last ridge, bears N. W. and S. E.; ascend abruptly over ledges to top of sandstone bluff .

40.00 Set a burnt red sandstone 30x10x5 ins., 22 ins. deep in a mound of stone, for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. About 3 ft. W. of cor. the ledges slopes rapidly to W. and mound would be unsafe. Could not set cor. stone deeper on account of hard sandstone surface at corner point. As an additional witness point I cut a cross (X) about 6 ins. long and 1/4 in. deep at the exact corner point, the cor. stone being set over this mark.

Land mountainous and broken.

Soil, sandy, clay and stony; 4th. rate.

No timber, except a few scattering cottonwoods and small groves W. of line along the foot hills.

Grazing fair on top of ridges and in the narrow valley W. of line.

Mountainous land on 40.00 chs.

February 6, 1900.

From the cor. of secs. 11, 12, 13 and 14, established by me, as heretofore described, I run

40.00 N. 89° 55' E. on a random line bet. secs. 12 and 13. set temporary 1/4 sec. cor.

80.50 Intersect E. bdy. of Tp. (Pine Valley Guide Meridian) 25 lks. S. of cor. of secs. 7, 12, 13 and 18, established by me in resurvey of Pine Valley Guide Meridian.

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains.. Thence I run
S.89°44' W.on a true line bet.secs.12 and 13.
Descend abruptly, over red sandstone ledges and broken
ridges; in sandy-stony ground; through scattering
service berry brush, iron wood, greasewood and very
few cedars along tops of ridges.
- 8.00 Ravine about 100 ft.wide and 75 ft.deep with precipitous walls of sandstone on either side, drains S. 15° E.; ascend abruptly from ravine over E.slope of ridge.
- 17.00 Top of ascent on summit of sandstone mountain about 250 ft.high, bears N.and S.; descend over W.and N.W. slope of mountain, very abrupt and broken.
- 28.75 Ravine about 150 ft.wide and 100 ft.deep, drains N. 15° W.
- 34.65 Descend over perpendicular ledges about 60.ft.high, bears N.and S.
- 38.25 Ravine about 100 ft.wide and 70 ft.deep, drains N. about 4.00 chs.and joins main ravine which drains S. 50° W.
- 40.25 Set a red sandstone 25x12x4 ins., 19 ins.deep in a mound of stone, for 1/4 sec.cor., marked 1/4 on N. face; and raised a mound of stone 2 ft.base, 1 1/2 ft. high, N.of cor.Pits impracticable.Hard sandstone surface prevented setting the cor.stone deeper.
This cor.is on point of sandstone ridge on W.side of last ravine, about 150 ft.below the summit of sandstone mountain.
- 49.00 Ravine about 200 ft.below top of sandstone mountain, about 50 lks wide and 10 ft.deep, drains S.50°W.
- 65.00 Wash at W.foot of sandstone ridges, about 100 ft.wide and 25 ft.deep, drains S.50° E.; about 150 ft.below the 1/4 sec.cor.; enter volcanic ridges; ascend from wash.
- 69.86 Twist Road from St.George to Mountain Meadows and Modena, bears S.10° E.and N.20° W.
- 72.88 Telegraph line running from St.George to Pine Valley bears N.50°W.and S.50° E.
- 75.00 Begin ascent of sandstone bluffs bears N.and S.
- 78.50 Top of point of bluff on S.slope, bears N.and S.; descend.
- 80.50 The cor.of secs.11,12,13 and 14.
Land mountainous and very abrupt and broken.

Subdivisions of T.42. S., R.16. W.-Continued.

Chains. Soil, sandy-clay, covered with sandstone and volcanic boulders; 4th. rate.
 No timber, except very few cedars on summit of mountain.
 Fair grazing on the ridges and sloping side hills.
 Mountainous land on 80.50 chs.

From the cor. of secs. II, I2, I3 and I4, heretofore described, I run

N. 0° I' W. on a true line bet. secs. II and I2.

Ascend over sandstone bluff; in sandy stony and clay stony ground; through scattering greasewood, and iron wood undergrowth.

2.00 Top of ascent of bluff about 25 ft. above the sec. cor. bears S. E. and N. W.; descend over broken ledges on N. E. and N. slope of bluff and ridges.

7.00 Foot of ridge about 50 ft. below top of sandstone bluff, bears E. and W.; ascend gradually over W. and N. W. slope of ridges.

15.20 Wash about 50 ft. wide and 10 ft. deep, drains S. 85° W.

23.05 Road from St. George to Mountain Meadows and Modena, bears S. 35° E. and N. 35° W.

35.60 Wash at foot of ridges about 100 ft. below the sec. cor., about 25 ft. wide and 6 ft. deep, drains S. 10° W.; ascend from wash over steep rocky S. and S. E. slope of volcanic ridge.

39.25 Top of ridge about 50 ft. high, bears N. 10° W. and S. 80° W. about 6.00 chs., thence S.

40.00 Set a black lava stone 18x12x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.

42.60 Commence to descend over N. E. slope of ridge, bears S. 20° E. and N. 20° W.

47.30 Ravine at foot of ridge, about 20 ft. wide and 8 ft. deep, drains S. 20° E. about 6.00 chs., thence S. W.; descend more gradually.

58.00 West foot of red sandstone ledges about 150 ft. high, bears E. about 1.50 ch.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 78.50 Road from St. George to Modena bears S.65° W. and N. 70° E.
- 80.00 Set a black lava stone 18x12x6 ins., 12 ins. in the ground, for cor. of secs. I, 2, 11 and 12, marked with 5 notches on the S. and 1 notch on E. edges; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Telegraph line running from St. George to Pine Valley with general course of S. 50 E. and N. 5° W., bears E. of cor. about 1.50 chs. dist. The cor. is on North Westerly slope of high ridge about 150 ft. above the cor. of secs. 11, 12, 13 and 14. Land mountainous and broken. Soil, sandy, clay and stony; 4th. rate. No timber. Fair Grazing. Mountainous land on 80.00 chs. February 7, 1900: At this sec. cor., I set off 15° 14' S. on the decl. arc; and, at 0h 14m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 11' N

From the cor. of secs. I, 2, 11 and 12, above described
I. run

N. 89° 44' E. on a random line, bet. secs. I and 12.

- 40.00 Set temp. 1/4 sec. cor.

- 80.66 Intersect E. bdy. of the Tp., (Pine Valley Guide Meridian), 9 lks. S. of the cor. of secs. I, 6, 7 and 12, established by me in resurvey of Pine Valley Guide Meridian, through T. 42 S.

Thence I run

S. 89° 40' W. on a true line bet. secs. I and 12.

Ascend over broken sandstone ridges on E. slope of high sandstone mountain; through scattering service berry, iron wood and greasewood undergrowth, and very few scrubby cedars on top of mountain.

- 11.66 Top of ascent and summit of sandstone mountain, about 75 ft. above the sec. cor., bears N. and S.; descend rapidly over W. and N.W. slope of broken sand-

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. stone mountain and ridges.
- 40.33 Set a red sandstone 25x14x5 ins., 19 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. Corner is on N.W. slope of ridges about 100 ft. below summit of sandstone mountain.
- 44.70 Foot of ridges about 50 ft. below the 1/4 sec. cor., bears N. 20° E. and S. 20° W.; gradually descend.
- 54.90 Hollow about 20 ft. wide and 15 ft. deep, drains N. 10° W.; ascend.
- 71.70 Point of ridge on N. slope, about 75 ft. high, bears N. and S.; descend abruptly.
- 73.20 West foot of sandstone mountain and ridges, bears S. 10° W. and N. 85° E.; thence descend gradually over N.W. slope of ridge.
- 79.16 Road from St. George to Modena bears N. 70° E. and S. 70° W., Telegraph line bears S. 50° E. and N. 50° W.
- 80.66 The cor. of secs. 1, 2, 11 and 12.
 Land mountainous and broken ridges.
 Soil, sandy, clay and stony; 4th. rate.
 No timber, except very few scrubby cedars on top of sandstone mountain.
 Shrubby and grasses afford fair grazing where soil is of sufficient depth to produce vegetation.
 Mountainous land on 80.66 chs.

February 7, 1900: I set off 37° 11' N. on the lat. arc; 15° 11' S. on the decl. arc; and, at 3h 14m p.m., 1. m.t., determine a true meridian with the solar at the cor. of secs. 1, 2, 11 and 12, heretofore described.

Thence I run

North, 0° 1' W. on a true line bet. secs. 1 and 2, knowing from previous re-survey of N. bdy. of the Tp. that a closing cor. will be necessary.

Descend over N.W. slope of ridge; through scattering greasewood and iron wood undergrowth; in clay, sandy stony ground.

- 5.30 S. edge of rocky ravine about 50 ft. deep, drains N.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	70° W., about 6.00 chs., thence S.40° W.
6.80	Bottom of ravine.
9.00	Top of ledges on N. side of same ravine, bears N.70° E. and S.70° W.; ascend along W. slope of broken ridge.
12.70	Descend abruptly over N.W. slope of ledges into ravine.
14.64	Bottom of ravine about 200 ft. wide and 60 ft. deep, drains S.40° W. about 10.00 chs. and joins last ravine. Ascend abruptly from ravine on S.E. and E. slope of broken ridges.
22.00	Top of point of ridge about 75 ft. above last ravine, bears S.E. and N.W.; ascend more gradually.
28.00	Telegraph line from St. George to Pine Valley, bears S.40° E. about 1.50 ch., thence S.5° E., and N.40° W.
30.00	Ravine, same as last described, about 150 ft. wide and 25 ft. deep, drains S.60° E. about 4.00 chs., thence S.W.
32.80	Road from St. George to Modena, bears S.60° E. and N.60° W. S.60° E. about 35.00 chs. dist. is point where the road turns S.W. around "twist".; leave stony ground, and enter heavy sandy soil and medium dense cactus undergrowth,
40.00	Set a red sandstone 18x14x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
47.00	S.W. foot of sandstone bluff, bears S.40° E. and S.40° W. about 4.00 chs., thence N.W.; leave sandy soil and enter sandy stony ground. Ascend abruptly on S.W. slope of bluff.
56.00	Top of bluff about 100 ft. high, bears S.5° E. and N.5° W.; descend rapidly over N. slope of bluff.
72.60	Wash at N.W. foot of bluff, drains W. 1.00 ch., thence S.W.; wash is about 20 ft. wide and 6 ft. deep, and about 125 ft. below the top of sandstone bluff. Thence ^{ascend} along winding course of wash, at
75.50	Recross wash drains S.30° E.; thence along E. side of wash.
79.10	Intersect the N. bdy. of the Tp., at 3.20 chs. E. of the re-established cor. of secs. 1, 2, 35 and 36, heretofore described in re-survey of N. bdy. of this Tp. Set a red sandstone 30x12x6 ins., 23 ins. in the

Subdivisions of T.42 S.,R.16 W.-Continued.

Chains. 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 raised a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. The cor. is near E. side of wash which drains Southerly.

I destroy the marks on the cor. of secs. 1, 2, 35 and 36, which pertain to secs. 1 and 2, and re-mark same for cor. of secs. 35 and 36, T.41 S., R.16 W., only.

Land mountainous and broken ridges.

Soil, clay, sandy and stony; 3rd. and 4th. rate.

No timber.

Fair grazing.

Mountainous land on 79.10 chs.

February 7, 1900.

February 8, 1900: I set off 37° 10' N. on the lat. arc; 14° 56' S. on the decl. arc; and, at 8^h 14^m, a.m., 1.m. t., determine a true meridian with the solar, at the re-established 1/4 sec. cor. bet. secs. 14 and 15, heretofore described in notes of retracements of subdivisions of this Tp.

Thence I run

North, 00° 1' W. on a true line bet. secs. 14 and 15.

Ascend over broken clay, sandy and gravelly ridges; through scattering greasewood and cactus undergrowth.

40.00 Set a limestone 25x10x6 ins., 19 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 raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Pits impracticable.

Land broken low ridges.

Soil, sandy clay and gravelly; 3rd. rate.

No timber.

Shrubbery and grasses make fair grazing.

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. From the cor. of secs. 10, 11, 14 and 15, above described, I run
- N. 89° 42' E. on a random line bet. secs. 11 and 14.
- 40.00 Set temp. 1/4 sec. cor.
- 50.24 Intersect N. and S. line 4 lks. S. of the cor. of secs. 11, 12, 13 and 14, heretofore described.
- Thence I run
- S. 89° 40' W., on a true line bet. secs. 11 and 14.
- Descend over sandstone bluff; through scattering greasewood, mosquito, and iron wood undergrowth.
- .15 Perpendicular ledges about 70 ft. high, bears N. 40° W. and S. 40° E.; descend abruptly over ledges.
- 9.90 Trail bears N. 100° E. and S. 100° W.
- 11.10 Small spring drains W. about 2.00 chs., thence S. 30° W.
- 22.50 W. foot of ridges about 25 ft. below the sec. cor., bears N. 15° W. and S. 15° E.; thence over broken low ridges.
- 24.20 Road from St. George to Ashby's pasture which bears N. 100° E. about 10.00 chs.
- 27.30 Small stream of water running from pasture drains S. 50° E.; about 1 1/2 lks. wide and 2 ins. deep; ascend.
- 29.65 Trail bears N. and S.
- 40.12 Set a red sandstone 19x7x4 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is on E. slope of high sandstone ridge. Begin rapid ascent on E. slope of sandridge.
- 45.40 Top of sandridge about 125 ft. high, bears N. and S. Head of Ashby spring bears N. 63° 20' E. about 35.00 chs. dist. Old rock cabin bears N. 65° 30' E. about 72.00 chs. dist. A spring and corral bears S. 51° 30' W. about 18.00 chs. dist.
- Descend rapidly over W. slope of ridge.
- 55.00 West foot of sandridge about 100 ft. below top of ridge, bears N. and S. 200° E. where the ridge breaks off abruptly. Descend gradually over low broken ridges.
- 66.05 Road from St. George to Snow's spring bears S. 55° E. and N. 55° W. Small reefs of limestone bears S. 55° E. along the foot of sandstone mountain, about 40.00 chs.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

80.24

The cor. of secs. 10, 11, 14 and 15.
 Land mountainous and broken low ridges.
 Soil on the high ridges sandy and stony, and on the lower ridges sandy and gravelly; 3rd. and 4th. rate.
 No timber, except a few scattering cottonwoods in S. E. 1/4 of sec. 11 and N. E. 1/4 of sec. 14.
 Undergrowth, grasses and shrubbery afford good grazing.
 Mountainous land on 50.00 chs.

50
 30.24

From the cor. of secs. 10, 11, 14 and 15, heretofore described, I run North, 00° 1' W. on a true line bet. secs. 10 and 11. Ascend over low broken ridges and foot hills; in sandy gravelly and stony ground; through scattering greasewood, iron wood and cactus undergrowth.

8.40

Wash about 20 ft. wide and 7 ft. deep, drains S. 50° W.

17.40

Road from St. George to Snow's spring bears S. 55° E. and N. 55° W.

26.90

Road by way of Gray farm bears N. E. and S. W.

A farm of about 10 acres bears W. about 8.00 chs.

30.00

Begin ascent of foot hills bears N. 30° W. and S. 30° E.

32.25

Small spring drains S. 55° W.

33.00

About 4.00 chs. W. is Gray's reservoir at head of his farm.

36.00

Gray's spring with small stream of water flowing S. W. into reservoir bears W. about 1.00 ch.

40.00

Set a lava stone 15x14x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. The cor. is on S. W. slope of foot hills about 100 ft. above the sec. cor.

55.00

Begin abrupt ascent on S. W. slope of sandstone ridge, bears S. 45° E. and N. 50° W.

80.00

Set a red sandstone 24x10x8 ins., 18 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 4 notches on the S. and 2 notches on the E. edges; and raised a

50
 30

Subdivisions of T.42 S., R.16 W., -Continued.

Chains.	<p>mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on the W. slope of sandstone ridge very steep and rocky.</p> <p>Land mountainous and broken.</p> <p>Soil, sandy, gravelly and stony; 2nd., 3rd. and 4th. rate.</p> <p>No timber except a few scattering cottonwoods near Gray's farm.</p> <p>Undergrowth and grasses afford fair grazing.</p> <p>Mountainous land on 50.00 chs.</p> <p>February 8, 1900: At this sec. cor. I set off $140^{\circ}55'$ S. on the decl. arc; and, at 0014^m P. M., L. M. T., observe the sun on the meridian; the resulting lat. is $37^{\circ}11'$ N.</p>
	<p>From the cor. of secs. 2, 3, 10 and 11, above described,</p> <p>I run</p> <p>$N. 89^{\circ} 40'$ E. on a random line bet. secs. 2 and 11.</p> <p>40.00 Set temp. 1/4 sec. cor.</p> <p>80.46 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 1, 2, 11 and 12, heretofore described.</p> <p>Thence I run</p> <p>$S. 89^{\circ} 41'$ W. on a true line bet. secs. 2 and 11.</p> <p>Descend over N. W. slope of ridge; in clay, sandy and stony ground; through scattering greasewood, iron wood and cactus undergrowth.</p> <p>2.20 Trail bears $N. 50^{\circ}$ E. and $S. 50^{\circ}$ W.</p> <p>14.00 Ravine about 4.00 chs. wide and 75 ft. deep, drains $S. 50^{\circ}$ W.; ascend abruptly from ravine over S. W. slope of broken lava and sandstone ridges.</p> <p>29.00 S. Point of ledges about 40 ft. high, bears N. and S. Descend abruptly over broken ledges and ridges.</p> <p>37.50 Ravine at foot of ridges, about 50 ft. wide and 25 ft. deep, drains $S. 70^{\circ}$ E.; ascend abruptly over N. E. slope of ridges.</p> <p>40.23 Set a red sandstone $24 \times 10 \times 8$ ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is on N. E. slope of red sandstone ridge about 40 ft. above last ravine.</p>

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 53.00 Top of sandstone ridge or mountain, about 50 ft. above the $1/4$ sec. cor., bears N. 20° W. and S. 20° E.
- 55.50 Commence to descend over SW. and W. slope of ridge very rocky and broken, bears N. 20° W. and S. 20° E.
- 64.50 Ravine, at W. foot of ridges about 40 ft. below top of last ridge, drains S. 50° E.; begin ascent of E. slope of sandridge.
- 75.00 Sharp top of sandstone ridge about 50 ft. above last ravine and about 150 ft. above the valley on the W., bears S., and N. 10.00 chs., thence N.W.
- 80.46 The cor. of secs. 2, 3, 10 and 11.
 Land mountainous and broken cut with large ravines. Soil, sandy, clay and stony; 4th. rate.
 No timber.
 Shrubbery and grasses afford medium grazing.
 Mountainous land on 80.46 chs.

From the cor. of secs. 2, 3, 10 and 11, heretofore described, I run North, 0° $1'$ W., on a true line bet. secs. 2 and 3, knowing from previous re-survey of the N. bdy. of the Tp. that a closing cor. will be necessary.

Ascend abruptly over W. and S.W. slopes of sandstone ridges; through scattering greasewood, Iron wood and cactus undergrowth; in sandy and stony ground.

- 35.00 Top of sand stone mountain or ridges about 150 ft. above the sec. cor., bears W., E. and S.; thence descend gradually over N. slope of mountain.
- 40.00 Set a red sandstone $22 \times 12 \times 4$ ins., 17 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; and raised a mound of stone 2 ft. base, $1 1/2$ ft. high, W. of cor. Pits impracticable.
- 58.00 Begin abrupt descent over broken ridges, bears N. 40° W. and S. 40° E.
- 71.50 Hollow at S.W. foot of high sandstone butte about 25 ft. wide and 15 ft. deep, drains ~~drains~~ drains N. 35° W. along the foot of ledges S. side of butte, about 10.00 chs.,

Subdivisions of T.42 S., R.16 W.-Continued.

Chains. thence S.W.; ascend abruptly over S.W. slope of butte
 75.00 Top of butte about 150 ft. high, bears S.E. and N.W.;
 descend abruptly over N. and N.E. slope of butte.
 79.60 Intersect N. bdy. of the Tp, 2.55 chs. E. of the cor. of
 2, 3, 34 and 35, established by me in resurvey of N.
 bdy., and described in Notes thereof.
 Set a red sandstone 20x14x3 ins., 15 ins. deep in a
 mound of stone, 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 raised a mound of stone 2 ft. base,
 1 1/2 ft. high, S. of cor. Pits. impracticable.
 Hard sandstone surface prevented setting the cor.
 stone deeper.
 The cor. is at N. foot of red sandstone bluffs.
 I obliterate the marks on the old cor. of secs. 2, 3,
 34 and 35, that pertain to secs. 2 and 3; and re-mark
 same for cor. of secs. 34 and 35, T. 41 S., R. 16 W. only.
 Land mountainous and very badly broken.
 Soil sandy and stony; 4th. rate.
 No timber.
 Fair grazing on top of ridges.
 Sandstone bluff not accessible to animals on ac-
 count of its abrupt exteriors.
 Mountainous land on 79.60 chs.
 February 8, 1900..

From the cor. of secs. 9, 10, 15 and 16, heretofore
 described in Notes of Retracements of Subdivisions
 of this Tp., Book 7, I run
 North, 89° 40' E. on a random line bet. secs. 10 and 15.
 40.00 Set temp. 1/4 sec. cor.
 80.90 Fall 2 lks. S. of the cor. of secs. 10, 11, 14 and 15, here-
 tofore described.
 Thence I run
 S. 89° 39' W. on a true line bet. secs. 10 and 15.
 Descend over low broken ridges, in red sandy soil,
 slightly stony.
 30.00 Wash about 50 ft. wide and 25 ft. deep, drains S. 50° W.,

Subdivisions of T. 42 S., R. 16 West, -Continued.

- Chains. about 3.00 chs., thence S.W.
- 35.00 Volcanic wash about 1.50 ft. wide and 20 ft. deep, drains drains S. 25° E. Water in holes along the wash.
- 40.45 Set a black volcanic stone 15x10x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 43.85 Trail bears N. 15° W. and S. 15° E. Enter clay gravelly and stony ground, leave sandy soil.
- 52.65 Trail bears N. 30° W. and S. 30° E.
- 54.00 Enter lava fields or ridges bears S. 25° E. and N. 25° W., ascend over very rough lava beds with numerous caverns of various shapes and dimensions, making it very difficult to traverse the same.
- 73.00 Enter still heavier masses of volcanic cinders and beds of lava with numerous caverns occasioned from the cooling and condensation of the melted masses of lava, bears N. 20° W. and S. 20° E.
- 80.90 The cor. of secs. 9, 10, 15 and 16, in heavy beds of lava. Land low ridges and broken.
Soil, sandy, gravelly, clay and stony, and lava beds with very little soil; 3rd. and 4th. rate.
Vegetation: scattering greasewood, iron wood and cactus with native grasses. Fair grazing.
No timber.

North, 0° 2' W. bet. secs. 9 and 10, gradually ascending over very rough lava beds and lava cinders and crossing numerous caverns of various shapes and dimensions.

- 40.00 Set a black lava cinder 15x12x8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Still ascending in lava beds.
- 80.00 Set a lava cinder 24x15x5 ins., 18 ins. deep in a mound of stone, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on the S. and 3 notches on the E. edges;

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is in heavy lava beds as described at the beginning of notes. Land lava ridges and broken. Soil, mostly covered with lava cinder; 4th. rate. Very little vegetation growing in the lava beds; in the secs. E. and W. of the lava beds the soil is sandy and gravelly and produces undergrowth, shrubbery and grasses sufficient to make fair grazing. No timber. February 9, 1900: At this cor. I set off $14^{\circ}36'$ S. on the decl. arc; and, at 0^h14^m p.m., l.m.t., observe the sun of the meridian; the resulting lat is $37^{\circ}11'$ N.
-
- 40.00 North, $89^{\circ}39'$ E. on a random line bet. secs. 3 and 10. Set temp. 1/4 sec. cor.
- 80.88 Intersect the N. and S. line 2 lks. N. of the cor. of secs. 2, 3, 10 and 11, heretofore described. Thence I run $S.89^{\circ}40'$ W. on a true line bet. secs. 3 and 10, descending over steep W. slope of rocky sandridge.
- 3.00 West foot of sandridge, about 75 ft. below the sec. cor., bears N. and S.; thence gradually descend over low broken foot hills and ridges.
- 17.50 Hollow about 50 ft. wide and 20 ft. deep, drains S. 25° W. Down the hollow about 2.00 chs. dist. is a small spring; ascend from hollow.
- 19.00 Top of ridge about 40 ft. high, bears N. 30° E. and S. 30° W.; descend.
- 24.30 Bottom of foot hills about 150 ft. below the sec. cor., and valley, bears N. 40° E. and S. 40° W.; thence descend more gradually over rolling sandhills, with general course of drainage to the S. W.
- 40.44 Set a red sandstone 18x14x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 43.50 Road from St. George to Snow's spring, bears S. 30° E.

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. and N.30° W.
- 44.88 Trail bears S.30° E. and N.30° W. About 15.00 chs. S. 30° E. is a small grove of cottonwood trees and small spring branch with stream running S.W. from the same.
- 50.75 Hollow at foot of descent about 50 ft. below the 1/4 sec. cor., drains S.40° E.; ascend sandridge covered with loose volcanic boulders.
- 67.00 Top of ridge about 80 ft. high, bears N. and S.; descend abruptly over W. slope of ridge.
- 77.00 Trail bears N.100° W. and S.100° E., on E. side of volcanic wash.; descend into wash.
- 78.25 Bottom of volcanic wash about 120 ft. wide and 40 ft. deep, drains S.30° E.; small stream of water and water in holes in bottom of wash. A small spring rises in the wash about 5.00 chs. dist, S.30° E.
Ascend abruptly from wash.
- 79.30 Enter lava bed on W. side of the wash bears S.30° E. and N.15° W.
- 80.88 The cor. of secs. 3, 4, 9 and 10, in the lava beds about 50 ft. above the volcanic wash.
54.00
26.88
Land mountainous and broken ridges.
Soil, sandy and stony and lava bed; 2nd, 3rd, and 4th. rate.
No timber except small grove of cottonwood trees and scattering ash and cottonwoods along the wash.
Vegetation, scattering greasewood and iron wood undergrowth and native grasses, which afford fair grazing.
Mountainous land on 54.00 chs.
-
- 41.33 South, 89°20' W. on a random line bet. secs. 4 and 9.
Fall 24 lks. S. of the re-established 1/4 sec. cor. heretofore described in retracements of subdivisions of this Tp.
Thence I run
North, 89°40' E. on a true line bet. secs. 4 and 9, gradually ascending over lava ridges, very rough and difficult to traverse.
- 41.33 The cor. of secs. 3, 4, 9 and 10.
Land, broken lava bed and ridges.

Chains. Soil, stony and very little soil; 4th. rate.
No timber and very little vegetation.

February 9, 1900: I set off $37^{\circ}11'$ N. on the lat. arc; $14^{\circ}33'30''$ S. on the decl. arc; and, at 3h14^m p.m., local mean time, determine a true meridian with the solar, at the cor. of secs. 3, 4, 9 and 10, heretofore described; thence I run

North, $0^{\circ}2'$ W. on a true line bet. secs. 3 and 4, knowing from previous re-survey of the N. bdy. of the Tp. that a closing cor. will be necessary.

Gradually ascending in lava beds.

- 2.37 leave main lava beds which bears N. 40° W. and S. 40° E.; thence over sandy ground partly covered with volcanic boulders and lava cinders.
- 12.95 Trail bears N. 75° W. and E.
- 14.00 South foot of ridge, bears N. 5° E. and S. 5° W. The volcanic wash bears E. of this point about 3.00 chs. dist.
- 1900 Top of ridge, about 50 ft. high and 75 ft. above the sec. cor., bears N. E. and W.; gradually ascend along the top of ridge.
- 24.00 Begin to descend over W. slope of ridge.
- 40.00 Set a black volcanic stone 16x12x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Cor. is at N. foot of ridge about 40 ft. below the top of same, which bears E. and W.; thence gradually descend.
- 45.14 Road from St. George to Snow's spring, bears S. E. and N. W.; ascend gradually.
- 48.00 Reenter main lava beds, bears N. 60° W., and E. about 2.00 chs., thence N. 45° E.; ascend over very rough lava ridges and lava beds.
- 79.90 Intersect N. bdy. of the Tp., 1.70 chs. E. of the cor. of secs. 3, 4, 33 and 34, re-established by me in re-survey of N. bdy. of this Tp. and described in the notes thereof. Set a lava cinder 18x10x8 ins., 12 ins. deep in a

Subdivisions of T.42.S.,R.16 W.-Continued.

Chains. mound of stones, for closing cor. of secs. 3 and 4, marked with C.C. on the S., and with 3 grooves on E. and W. faces; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable. The cor. is in hard bed of lava cinders.

I destroy the marks on the old cor. of secs. 3, 4, 33 and 34, and re-establish the same for cor. of secs. 33 and 34, T. 41 S., only.

Land mostly lava beds and broken lava ridges with small tract rolling and covered with lava boulders. Soil, lava ridges and lava cinder, sandy and stony; 4th. and 3rd. rate.

No timber.

Scattering greasewood and iron wood undergrowth.

Fair grazing outside of lava ridges.

February 9, 1900.

February 10, 1900: I set off $37^{\circ}7'$ N. on the lat. arc; $14^{\circ}18'30''$ S. on the decl. arc; and, at 8^h14^m a.m., l.m.t., determine a true meridian with the solar, at the cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., as described in Notes of retracement of this bdy.

Thence I run

North, $0^{\circ}1'$ W. bet. secs. 33 and 34.

Descending rapidly over sandstone ridge or bluff, cut with deep ravines draining generally to N.E.

12.90 Ravine about 200 ft. wide and 50 ft. deep, drains N. 40° E.

29.90 Ravine about 300 ft. wide and 75 ft. deep, drains N.E. about 30.00 chs., thence S.E.

40.00 Set a gray sandstone 18x13x3 ins., 12 ins. deep in a mound of stones, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of earth 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Hard sandstone surface at cor. point prevented setting the cor. deeper. The cor. is on N.E. slope of bluff, about 100 ft. below the sec. cor. Continue descending.

42.70 Ravine about 70 ft. wide and 20 ft. deep, drains N. 40° E.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	
54.90	Ravine about 100 ft.wide and 40 ft.deep,drains N.45°E.
71.90	Ravine about 100 ft.wide and 50 ft.deep,drains E.; ascend abruptly from ravine.
80.00	<p>Set a burnt sandstone 24x14x4 ins.,18 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;and raised a mound of stone,2 ft.base,1 1/2 ft.high,W.of cor.</p> <p>Pits impracticable. The cor.is on N.E.slope of high sandstone ridge or bluff.</p> <p>Land mountainous and broken cut with deep ravines.</p> <p>Soil,sandy and stony;4th.rate.</p> <p>No timber.</p> <p>Scattering greasewood,sage and iron wood undergrowth and native grasses,which afford medium grazing.</p> <p>Mountainous land on 80.00 chs.</p>
<p>✓ South,89°53' E.on a random line bet.secs.27 and 34</p>	
40.00	Set temp.1/4 sec.cor.
76.27	<p>Intersect N.and S.line 18 lks.N.of the cor.of secs. 26,27,34 and 35,heretofore described in retracements of subdivisions.of this Tp.</p> <p>Thence I run</p>
	<p>North,89°45' W.on a true line bet.secs.27 and 34.</p> <p>Descend over S.W.slope of gravelly ridge;in sandy, gravelly and stony ground.</p>
5.07	<p>Bottom of hollow at foot of ridge,about 50 ft.below the sec.cor.,drains S.50° E.;ascend on N.E.and N. slope of broken ridges.</p>
9.30	<p>Top of ridge about 50 ft.high,bears N.W.and S.E.; thence along top of ridge ascending.</p>
23.57	Trail bears N.15° E.and S.15° W.
28.00	<p>Commence to descend on the S.W.'slope of ridge,bears N.W.and S.E..</p>
36.27	<p>Set a volcanic stone 15x12x6 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;and raised a mound of stone,2 ft.base,1 1/2 ft.high,N.of cor.</p> <p>Pits impracticable.</p>

23

Subdivisions of T.42-S., R.16 W.-Continued:

- Chains. Cor. is about 25 ft. below top of last ridge.
- 46.22 Foot of ridge about 80 ft. below top bears S. 50° E. and N. 50° W.; ascend, over E. and N.E. slope of high ridge or bluff.
- 76.27 The cor. of secs. 27, 28, 33 and 34.
 Land mountainous and broken.
 Soil, sandy, gravelly and stony; 4th. rate.
 No timber.
 Shrubbery and small undergrowth and grasses afford fair grazing.
 Mountainous land on 76.27 chs.
-
- necessary.
- North, 0° 1' W., bet. secs. 27 and 28. Closing cor. being
 Descend over N.E. slope of broken ridges, in sandy, and gravelly soil.
- 13.46 Bottom of hollow at foot of ridges about 75 ft. below the sec. cor., drains N. 35° E. Valley about 10.00 chs. wide bears E. about 6.00 chs.
- 35.39 Wash at N. foot of ridges, about 50 ft. wide and 15 ft. deep, drains E. about 6.00 chs. to edge of valley thence N. and Northeasterly around the foot hills on N. side of valley; continue descending.
- 40.00 Set a volcanic stone 15x12x8 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor. Pits impracticable.
 About 15.00 chs. E. of cor. is a sand knoll about 100 ft. high.
- 48.10 Hollow about 50 ft. wide and 25 ft. deep, drains E. about 2.00 chs. and enters the West end of valley about 10.00 chs. wide, and bears E. about 30.00 chs.
- 55.89 Wash at foot of descent about 75 ft. below the 1/4 sec. cor., about 12 ft. wide and 4 ft. deep, drains S. 85° E.
 Ascend.
- 65.29 Trail bears N. 75° E. and S. 75° W.
- 68.14 Top of ridge about 50 ft. high, bears E. and W.; descend.
- 70.39 North foot of ridge about 65 ft. below the top of same, bears E. and W.; ascend over S. slope of ridge.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

79.14 Intersect E. and W. line, S. bdy. of sec. 22, 5.03 chs., N. 89° 33' E. of the old cor. of secs. 21, 22, 27 and 28, heretofore described in notes of retracements of old subdivisions of this Tp.

Set a yellow sandstone 18x10x4 ins., 12 ins. in the ground, for closing cor. of secs. 27 and 28, on S. bdy. of sec. 22, marked C.C. on S., with 3 grooves on E. and 2 grooves on S. faces; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.

I obliterate the marks on the old cor. of secs. 21, 22, 27 and 28 that pertain to secs. 21, 27 and 28, and remark and witness same for SM cor. of sec. 22 only.

Land mountainous and broken.

Soil, sandy, clay, gravelly and stony; 3rd. and 4th. rate.

Along narrow valleys in sec. 27, the soil is sandy sprinkled with gravel; 2nd. rate.

No timber.

Vegetation, scattering greasewood, sage and iron wood undergrowth, shrubbery and native grasses, which afford fair grazing.

Mountainous land on 79.14 chs.

February 10, 1900: At this closing cor., I set off 140 16' 30" S. on the decl. arc; and, at 0° 14' p.m., l.m.t., observe the sun on the meridian; the resulting lat is 37° 09' N.

From the cor. of secs. 4, 5, 32 and 33, on the S. bdy. of the Tp. as described in Notes of retracement of same, I run

North 0° 1' W., bet. secs. 32 and 33.

Ascend over broken clay ridges, cut in all directions with washes and ravines.

33.00 Strike W. foot of high rocky ridge, bears S. 30° E. about 30.00 chs., thence more South; and N. 30° E. about 5.00 chs., thence turns N. 85° W.

38.25 Commence abrupt ascent on S. slope of same rocky ridge or bluff, bears N. 85° W. and S. 85° E.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

40.00 Set a yellow sandstone 18x12x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of Cor. Pits impracticable. The cor. is on steep S. slope of ridge or bluff about 90 ft. above the foot of same.

44.00 Top of ridge about 100 ft. above the 1/4 sec. cor., bears N. 85° W. about 25.00 chs., thence more North, and E. about 3.00 chs., thence more S. and S.W.
Descend over top of bluff on N.E. slope of same.

49.25 Ravine about 75 ft. wide and 35 ft. deep, drains N. 60° E., and heads at foot of clay ridges on W. side of bluff, S. 65° W. about 10.00 chs.

59.30 Ravine about 100 ft. wide and 40 ft. deep, drains N. 65° E.; and heads S. 75° W., about 12.00 chs., at foot of clay ridges on W. side of bluff.

70.50 Bottom of hollow about 100 ft. below top of bluff, drains E., and heads W. about 2.00 chs. near top of bluff; ascend.

80.00 Set a yellow sandstone 25x12x5 ins., 19 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 raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on N.E. slope of high bluff.

Land mountainous and broken.
Soil, sandy and stony; 3rd. and 4th. rate.
No timber.
Scattering sage, greasewood, iron wood and native grasses afford fair grazing.
Mountainous land on 80.00 chs.

S. 89° 49' E. on a random line bet. secs. 28 and 33.

40.00 Set temp. 1/4 sec. cor.

79.30 Intersect N. and S. line 2 lks. S. of the cor. of secs. 27, 28, 33 and 34, heretofore described.

Thence I run

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	N.89°50' W.on a true line bet.secs.28 and 33.
	Ascend over N.E.slope of high bluff, in sandy and stony ground.
39.65	Set a gray sandstone 15x15x6 ins., 10 ins. in the ground for 1/4 sec.cor., marked 1/4 on N.face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is on N.E.slope of bluff, about 150 ft. above the sec.cor.
47.00	Hollow about 60 ft. wide and 40 ft. deep, drains N. 35° E.
79.30	The cor. of secs. 28, 29, 32 and 33, on N.E. slope of bluff about 150 ft. above the sec.cor. Land mountainous and broken. Soil, sandy and stony; 4th. rate. No timber. Scattering greasewood and iron wood undergrowth and native grasses. Fair grazing. Mountainous land on 79.30 chs. February 10, 1900.
	N.0° 1' W., bet.secs.28 and 29, descending over N.E. slope of high sandstone mountain or bluff.
25.50	S. edge of ravine bears N.50° E. about 40.00 chs., thence opens out into narrow valley, and S.50° W. about 10.00 chs. to W. side of bluff; descend abruptly.
29.80	Bottom of ravine or chasm 180 ft. deep, drains N.50° E. and heads W. about 15.00 chs., receiving the drainage from clay and gypsum ridges; ascend abruptly.
34.80	Top of ledges on N. side of ravine or chasm, about 175 ft. above bottom of ravine, bears W., and S.80° E. about 8.00 chs., thence N.50° E. about 40.00 chs. and breaks off into narrow valley. Descend.
40.00	Set a gray sandstone 18x12x5 ins., 12 ins. in the ground for 1/4 sec.cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Corner on N.E. slope of high ridge or bluff about 100 ft. below the sec.cor.
73.50	Commence steep descent into rocky ravine, bears N.55°

Subdivisions of T.42 S.,R.16 W.-Continued.

Chains. W.and S.55° E.

76.80 Bottom of ravine about 50 ft.deep,drains S.55° E. about 2.00 chs.,thence N.40° E.,heads N.55° W.about 40.00 chs.;ascend abruptly.

79.00 Top of N.side pf ravine about 45 ft.above the bottom, bears S.55° E.and N.55° W.;descend.

80.00 Set a gray sandstone 30x10x5 ins.,23 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 raised a mound of stone,2 ft.base,1 1/2 ft.high;W.of cor. Pits impracticable. Corner is on N.E.slope of high ridge or sandstone bluff.

Land mountainous and broken.

Soil,sandy and stony;4th.rate.

No timber.

Shrubby,undergrowth and native grasses afford medium grazing during seasons of sufficient moisture.

Mountainous land on 80.00 chs.

Knowing from previous surveys and retracements that a closing cor.will be necessary on the West boundary of sec.22,I run S.89°50' E.on a true line bet.secs.21 and 28. Descend over N.E.slope of broken ridges,in sandy stony and gravelly soil.

33.49 Wash about 15 ft.wide and 6 ft.deep,drains S.75° E. about 1.00 ch.thence S.E.

40.00 Set a gray sandstone 24x12x3 ins.,18 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;and raised a mound of stone,2 ft.base,1 1/2 ft.high, N.of cor. Pits impracticable.

51.81 Wire fence bears N.about 3.00 chs.,and S.about 25.00 chs.

55.10 Bottom of descent about 150 ft.below the sec.cor, bears N.W.and S.E.;ascend.

60.10 Top of ridge about 75 ft.high,bears S.35°E.and N.30°W. Descend.

74.09 Intersect N.and S.line(W.bdy.of sec.22),78 lks.N.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains. $0^{\circ}44'$ W. from the old cor. of secs. 21, 22, 27 and 28, as remarked and witnessed for ^{S.W.} cor. of sec. 22, only, as heretofore described.

Set a gray sandstone $18 \times 10 \times 3$ ins., 12 ins. in the ground, for closing cor. of secs. 21 and 28, marked C.C. on W., with 2 grooves on S. and 3 grooves on E. faces; and raised a mound of stone 2 ft. base, $1 \frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

Land mountainous and broken.

Soil, sandy and stony; 4th. rate.

Vegetation, greasewood, iron wood and sage undergrowth, shrubbery and native grasses which afford fair grazing.

No timber.

Mountainous land on 74.09 chs.

From the cor. of secs. 20, 21, 28 and 29, heretofore described, I run

$N. 0^{\circ} 1'$ W. on a true line bet. secs. 20 and 21, knowing from previous retracements and survey that a closing cor. will be necessary on S. bdy. of sec. 16.

Descend over broken sandstone ridges, in sandy and stony ground.

- 8.47 Old road bears E. and W.
- 20.00 Hollow at N.E. foot of ridges about 200 ft. below the sec. cor., drains $S. 60^{\circ} E.$; heads $N. 40^{\circ} W.$; ascend S.W. slope of rocky ridge.
- 27.75 Top of ridge about 50 ft. high, bears $N. 80^{\circ} W.$ and $S. 80^{\circ} E.$; descend.
- 30.50 Old road bears $N. 75^{\circ} W.$ and $S. 75^{\circ} E.$
- 34.50 Hollow at N. foot of ridge about 60 ft. below top, drains $S. 50^{\circ} E.$ about 25.00 chs. and opens into last hollow; ascend rapidly.
- 39.75 Top of ridge about 100 ft. high, bears E. and $N. 80^{\circ} W.$ Descend.
- 40.00 Set a gray sandstone $15 \times 12 \times 6$ ins., 10 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..

Subdivisions of T.42.S.,R.16 W.-Continued.

Chains. of cor. Pits impracticable.

Descend more abruptly over N.W.slope of broken ridges.

63.80 Hollow at N.W.foot of ridges about 150 ft.below the
 1/4 sec.cor.,drains N.35° E.;ascend rapidly over
 S.E.and E.slope of gravelly and stony ridges,with
 course of drainage Northeasterly.

64.28 Trail bears N.35° E.and S.35° W.

78.29 Intersect E.and W.line,on S.bdy.of sec.16,7.46 chs.
 N.89°46' E.from the old cor.of secs.16,17,20 and 21,
 heretofore described in retracements of subdivisions
 of this Tp.

Set a gray sandstone 16x10x6 ins.,11 ins.in the
 ground,for closing cor.of secs.20 and 21,marked C.C.
 on S.,with 3 grooves on S.and 4 grooves on E.faces;
 and raised a mound of stone,2 ft.base,1 1/2 ft.high,
 S.of cor. Pits impracticable.

The cor.is on top of ridge about 150 ft.above last
 hollow.Ridge slopes N.and N.E.

I obliterate all marks on the old cor.of secs.16,17,
 20 and 21 that pertain to secs.17,20 and 21,and re-
 mark and witness the same ^{SW} cor.of sec.16 only.

February 12,1900:At this closing cor.I set off 130
 37' S.on the decl.arc;and,at 0^h12^m p.m.,l.m.t.,ob-
 serve the sun on the meridian;the resulting lat.is
 37°9'30' N.

Land mountainous.
 Soil sand and gravel.
 No timber.
 Mountainous land on 78.29 chs.

February 12,1900:I set off 37°7' N.on the lat.arc;
 130°34' S.on the decl.arc;and,at 3^h0' p.m.,l.m.t.,de-
 termine a true meridian with the solar,at the cor.of
 secs.5,6,31 and 32,on the S.bdy.of the Tp.,and here-
 tofore described in notes of retracements of this
 bdy.

Thence I run
 N.0° 2' W.bet.sec.31 and 32.

Gradually descending over clay gypsum ridges cut in
 all directions with small washes and hollows with
 general course of drainage to the N.E.

40.00 Set a burnt gray sandstone 16x10x4 ins.,11 ins.in the

Subdivisions of T.42 N., R.16 W.-Continued.

<p>Chains.</p> <p>— 80.00</p>	<p>ground for 1/4 sec.cor.,marked 1/4 on W.face;and raised a mound of stone,2 ft.base,1 1/2 ft.high,W. of cor. Pits impracticable.</p> <p>Set a gray burnt sandstone 24x12x4 ins.,18 ins.in the ground,for cor.of secs.29,30,31 and 32,marked with 1 notch on the S.and 5 notches on the E.edges; and raised a mound of stone 2 ft.base,1 1/2 ft.high, W.of cor. Pits impracticable. Corner in loose clay on steep S.slope of hollow.</p> <p>Land mountainous and broken ridges.</p> <p>Soil,loose clay and gypsum with mixture of gravel and stone;3rd.and 4th.rate.</p> <p>No timber.</p> <p>Scattering greasewood,sage and iron wood undergrowth and little bunch grass,which afford medium grazing.</p> <p>Mountainous land on 80.00 chs.</p> <p style="text-align: right;">February 12,1900.</p>
<p>40.00</p> <p>79.42</p> <p>2.21</p> <p>11.20</p> <p>24.00</p>	<p>S.89°51' E.on a random line bet.secs.29 and 32.</p> <p>Set temp.1/4 sec.cor.</p> <p>Intersect N.and S.line 15 lks.N.of the cor.of secs. 28,29,32 and 33,heretofore described.</p> <p>February 13,1900:At this cor.I set off 37°08' N. on the lat.arc;13°18' S.on the decl.arc;and,at 10^h a. m.,l.m.t.,determine a true meridian with the solar. Thence I run</p> <p>N.89°45' W.on a true line bet.secs 29 and 32.</p> <p>Ascend on N.E.slope of high sandstone ridge or bluff.</p> <p>Top of bluff about 25 ft.above the sec.cor.,bears S. 15° W.and N.45° W. about 20.00 chs.,thence N.;com- mence steep rocky descent on W.slope of bluff.</p> <p>W.foot of bluff about 125 ft.below the sec.cor.bears S.15° W.and N.15° W.;descend over broken foot hills.</p> <p>Wash in hollow at foot of descent,about 50 ft.below foot of bluff,about 50 ft.wide and 6 ft.deep,drains N.about 20.00 chs.and enters deep ravine at foot of bluff,thence Easterly along the ravine.;ascend over low broken ridges of clay and gypsum,loose soil,cut</p>

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains: in all directions, with general course of drainage to the N.E. These low hills are surrounded on E., S.E. and N.E. by high sandstone bluff, cut with deep chasms or ravines which carry off the drainage and empties same into the Santa Clara River.
- 38.40 Trail bears N. and S.
- 39.71 Set a gray sandstone 20x12x8 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth and loose stone 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 79.42 The cor. of secs. 29, 30, 31 and 32.
 Land mountainous and broken ridges.
 Soil, loose clay and gypsum with intermixture of gravel and layers of hard gypsum, and sandy stony ground;
 3rd. and 4th. rate.
 No timber.
 Scattering greasewood, sage and iron wood, which with shrubbery and grasses afford fair grazing, and used by the inhabitants of Santa Clara as pasture.
 Mountainous land on 79.42 chs.
-
- N. 89° 46' W. on a random line bet. secs. 30 and 31.
- 40.00 Set temp. 1/4 sec. cor.
- 92.13 Intersect W. bdy. of the Tp., 5 lks. N. of the cor. of secs. 25, 30, 31 and 36, heretofore described.
 Thence I run
 S. 89° 48' E. on a true line bet. secs. 30 and 31.
 Descend over low clay gypsum broken ridges, cut in all directions with washes and hollows with general course of drainage to N.E.
- 40.84 Main hollow about 150 ft. wide and 50 ft. deep, drains N. 45° E.
- 52.13 Set a limestone 14x20x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 70.54 Trail in bottom of hollow about 50 ft. wide and 25 ft.

Subdivisions of T.42 S., R.16 W.-Continued.

- Chains. deep, follows course of hollow which drains N. 300 F.
- 85.49 Trail in hollow about 50 ft. wide and 40 ft. deep, follows course of hollow, which drains N. about 8.00 chs., thence N.E.
- 92.13 The cor. of secs. 29, 30, 31 and 32.
Land mountainous and broken ridges.
Soil, loose clay and gypsum, gravelly and ledges of gypsum; 3rd. and 4th. rate.
No timber.
Vegetation, greasewood, sage, iron wood undergrowth, shrubbery and grasses, which afford good grazing and used by the Santa Clara citizens for pasturage.
Mountainous land on 92.13 chs.
February 15, 1900: At this sec. cor., I set off $13^{\circ}17'$ S. on the decl. arc; and, at $0^{\circ}14'$ p.m., l.m.t., observe the sun on the meridian; the resulting lat is $37^{\circ}05'$ N.
-
- N. $0^{\circ} 2'$ W., bet secs. 29 and 30.
Over loose clay and gypsum broken ridges, cut with hollows and washes in all directions with general course of drainage to the N.E. and E.; gradually descend.
- 17.19 Small spring in hollow with watering troughs and fence around the spring, used by the citizens of Santa Clara for watering horses and cattle, bears W. about 7.25 chs.
- 21.50 Hollow running from spring Northeasterly drains N. 50⁰ E. - about 50 ft. wide and 20 ft. deep. Trail follows hollow
- 40.00 Set a sandstone $15 \times 8 \times 5$ ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits $18 \times 18 \times 12$ ins., N. and S. of stone; and raised a mound of earth, 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor. Ascend.
- 74.59 Main hollow about 150 ft. wide and 50 ft. deep, drains E.
- 80.00 Set a gray sandstone $18 \times 12 \times 4$ ins., 12 ins. in the ground, for cor. of secs. 19, 20, 21 and 30, marked with 5 notches on E. and 2 notches on S. edges; and raised a mound of stone, 2 ft. base, 1 $1/2$ ft. high, W. of cor. Pits impracticable.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains. Land mountainous and broken ridges.
 Soil, loose clay and gypsum, slightly gravelly and stony; 3rd. and 4th. rate.
 Scattering sage and greasewood undergrowth, shrubbery and native grasses, in sufficient quantity to make fair grazing.
 No timber.
 Mountainous land on 80.00 chs.

40.00 S. $89^{\circ}45'$ E. on a random line bet. secs. 20 and 29.
 Set temp. $1/4$ sec. cor.
 79.28 Intersect N. and S. line 9 lks. N. of the cor. of secs. 20, 21, 28 and 29, heretofore described.

Thence $1/4$ run
 N. $89^{\circ}41'$ W. on a true line bet. secs. 20 and 29.
 Ascend over N.E. and N. slope of ridges; in sandy, gravelly and stony ground.

19.20 Hollow about 75 ft. wide and 50 ft. deep, drains S. 80° E.

39.64 Set a yellow sandstone $17 \times 10 \times 8$ ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; and raised a mound of stone 2 ft. base, $1 1/2$ ft. high, N. of cor.
 Pits impracticable. The cor. is on N.E. slope of ridge about 100 ft. above the sec. cor.

41.06 Wire fence bears N. ^{W.} about 20.00 chs. to foot of ledges, and S. ^{E.} about 6.00 chs. to foot of ledges, enclosing the Santa Clara grazing pasture. Enter pasture.

44.20 Top of ascent of ridges about 50 ft. above the $1/4$ sec. cor., bears N. and S.; descend over N.W. slope of ridge.

48.70 Road bears S.W. and N.E.

49.90 Trail bears N. 50° E. and S. 50° W.

55.45 Wash at foot of descent about 50 ft. below top of last ridge, about 15 ft. wide and 4 ft. deep, drains S.; ascend over broken clay and gypsum ridges cut with washes and hollows with general course of drainage S.E.

79.28 The cor. of secs. 19, 20, 29 and 30, on S.E. slope of ridges about 75 ft. above the wash.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	<p>Land mountainous and broken ridges.</p> <p>Soil, sandy, clay and gypsum-gravelly and stony; 3rd. and 4th. rate.</p> <p>Vegetation, sage, greasewood, iron wood undergrowth, shrubbery and grasses, which afford fair grazing. The land in the pasture is used by the inhabitants of Santa Clara for pasturage of horses and horned stock. No timber.</p> <p>Mountainous land on 79.28 chs.</p> <p style="text-align: right;">February 13th, 1900.</p>
40.00	<p>N. 89° 48' W. on a random line bet. secs. 19 and 30..</p> <p>Set temp. 1/4 sec. cor.</p>
92.08	<p>Intersect the W. bdy. of the Tp. 10 lks. N. of the cor. of secs. 19, 24, 25 and 30, heretofore described.</p> <p>Thence 1/4 run</p> <p>S. 89° 52' E. on a true line bet. secs. 19 and 30.</p> <p>Ascend over N.W., N. and S. slope of high sandstone bluffs.</p>
52.08	<p>The point for the 1/4 sec. cor. falls on a surface white sandstone 10x6x4 ft. above ground. I cut a cross 6 ins. long 1/4 in. deep at the exact cor. point, marked 1/4 on N. side of cross; and raised a mound of stone 3 ft. base, 1 1/2 ft. high, on N. side of stone.</p> <p>The cor. is on Southeasterly slope of high sandstone bluff, about 100 ft. above the sec. cor. on W. bdy.</p> <p>Descend over S.E. and S. slope of bluff.</p>
60.08	<p>Foot of bluff, about 75 ft. below the 1/4 sec. cor., bears N. 70° E. and S. 70° W. about 6.00 chs., thence N.W.</p> <p>Descend rapidly over broken foot hills and clay - gypsum ridges.</p>
67.00	Hollow about 150 ft. wide and 75 ft. deep, drains S. 40° E.
88.00	Hollow about 100 ft. wide and 50 ft. deep, drains S.E.
92.08	<p>The cor. of secs. 19, 20, 29 and 30, about 150 ft. below the 1/4 sec. cor.</p> <p>Land mountainous and broken ridges.</p> <p>Soil, sandy, stony clay and gypsum; 3rd. and 4th. rate.</p>

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Subdivisions of T.42.S., R.16 W.-Continued.

Chains. No timber.
 Grazing fair, consisting of greasewood, sage and iron wood undergrowth, shrubbery and native grasses; and occupied as pasture by the inhabitants of Santa Clara.
 Mountainous land on 92.08 chs.

N.0° 2' W. bet. secs. 19 and 20.

- Ascend over sandy and clay broken foot hills and ridges, sloping S. and S.E.
- 5.00 Hollow about 50 ft. wide and 25 ft. deep, drains S. 50° E.
- 15.24 S. foot of sandstone bluff, bears S.E. and N.W.; ascend abruptly over S. slope of bluff.
- 22.00 Top of bluff about 175 ft. above the sec. cor., bears S. 60° E. and N. 60° W.; descend over top of bluff.
- 40.00 Set a gray sandstone 24x14x6 ins., 18 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Corner is on N. slope of bluff, about 50 ft. below top of same.
- 41.24 Begin rapid descent over N. slope of bluff, bears S. 40° W. and N. 70° E.
- 46.24 Bottom of hollow or ravine at foot of bluffs, about 100 ft. deep, drains E.; ascend abruptly over S. slope of rocky bluff.
- 50.80 Top of bluff on N. side of hollow about 100 ft. high, bears S. 80° E. and N. 80° W.; descend over N.E. slope of bluff.
- 57.00 Bottom of hollow or ravine about 100 ft. deep, drains S. 80° E.; trail follows course of ravine or hollow. Ascend abruptly over steep rocky S. slope and broken ledges.
- 60.00 Top of ledges on N. side of ravine or hollow about 100 ft. above bottom, bears N. 80° W. and S. 80° E.; ascend more gradually over top of ridge or bluff.
- 66.00 Top of ascent about 50 ft. above top of ravine or hollow bears E. and W.; descend over N.E. slope of ridge or bluff.

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Subdivisions of T. 42 S., R. 16 W. - Continued.

Chains.

80.00 Set a gray sandstone 16x12x6 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; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. The cor. is on the N.E. slope of high sandstone ridges or bluff, about 75 ft. below top of ascent on N. side of ravine.
Land mountainous and broken.
Soil, clay, sandy and stony; 4th. rate.
No timber.
Scattering greasewood, sage and iron wood undergrowth, shrubbery and grasses, affording medium grazing.
Mountainous land on 80.00 chs.
February 14, 1900: At this sec. cor., I set off 120° 56' S. on the decl. arc; and, at 0h 14^m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 09' 30' N.

From the cor. of secs. 17, 18, 19 and 20, already described, I run S. 89° 41' E. on a true line bet. secs. 17 and 20, knowing from previous retracements and survey that a closing cor. will be necessary on W. bdy. of sec. 16.

Descend over N.E. slope of sandstone ridge or bluff.
6.25 Wire fence on E. side of Santa Clara Pasture, bears N. 15° E. and S. 15° W.
6.32 Trail bears N. 15° E. and S. 15° W. along course of wire fence
23.50 Trail bears S. 50° W. and N. 50° E.
40.00 Set a gray sandstone 18x10x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, N. of cor. Pits impracticable. The cor. is on N.E. slope of high sandstone ridge or bluff, about 125 ft. below the sec. cor.
47.00 Hollow about 100 ft. wide and 50 ft. deep, drains N. 30° E.
58.00 Road at foot of descent, about 75 ft. below the 1/4 sec.

Subdivisions of T. 42 S., R. 16 W.-Continued.

- Chains. cor., running from Santa Clara town to the Santa Clara pastures, bears N.W. and S.E.; ascend.
- 65.60 Top of ascent about 50 ft. above the road, bears N. and S. S.; descend over N.E. slope of ridges.
- 71.72 Intersect N. and S. line on W. bdy. of sec. 16, 2.18 chs. N. 52° W. of the old cor. of secs. 16, 17, 20 and 21, as re-marked and witnessed for the cor. of sec. 16, only, heretofore described.
- Set a gray sandstone 16x10x6 ins., 11 ins. in the ground, for closing cor. of secs. 17 and 20, marked C.C. on W., with 3 *grooves* on S. and 4 *grooves* on E. faces; and and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable.
- Land mountainous and broken.
- Soil, sandy and stony; 4th. rate.
- No timber.
- Undergrowth, shrubbery and grasses afford fair grazing.
- Mountainous land on 71.72 chs.
-
- N. 89° 52' W. on a random line bet. secs. 18, and 19.
- 40.00 Set temp. 1/4 sec. cor.
- 92.00 Intersect W. bdy. of the Tp. 7 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore described.
- February 14, 1900: At this sec. cor., I set off 37° 9' 30" N. on the lat. arc; 12° 52' S. on the decl. arc; and, at 4^h 14^m p.m., l.m.t., determine a true meridian with the solar.
- Thence, I run
- S. 89° 55' E. on a true line bet. secs. 18 and 19.
- Ascend along the N.W. and N. foot of sandstone ridge covered with large sandstone boulders.
- 39.72 Stone and pole fence about 6.00 chs. long connecting ledges and enclosing pasture on E., bears N. 10° W. and S. 10° E.; ascend gradually on W. slope of bluff.
- 52.00 Set a gray sandstone 18x14x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.

Subdivisions of T.42 S.,R.16 W.-Continued.

Chains. Pits impracticable. The cor. is on W. slope of sandstone bluff, about 150 ft. above the sec. cor.

65.00 Top of W. slope of bluff about 50 ft. above the 1/4 sec. cor., bears N. 33° W. and S. 55° E.; descend over N.E. slope of sandstone bluff.

92.00 The cor. of secs. 17, 18, 19 and 20.
 Land mountainous and broken.
 Soil, sandy and stony; 4th. rate.
 Undergrowth, shrubbery and grasses afford fair grazing, and mostly occupied by citizens of Santa Clara as pasture.
 No timber.
 Mountainous land on 92.00 chs.

February 14, 1900.

February 15, 1900: I set off 37° 9' 30" N. on the lat. arc; 120° 37' 30" S. on the decl. arc; and, at 10^h 14^m a.m., 1.m.t., determine a true meridian with the solar at the cor. of secs. 17, 18, 19 and 20, heretofore described. Thence I run

N. 0° 2' W., on a true line bet. secs. 17 and 18, knowing from previous retracements that a closing cor. will be necessary.

Descend rapidly over N.^{E.} slope of sandstone bluff or ridge.

40.00 Set a gray sandstone 20x8x6 ins., 1/2 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raised a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor. Pits impracticable. Cor. is on steep N. slope of sandstone bluff, about 150 ft. below the sec. cor.

43.00 Ravine about 200 ft. wide and 50 ft. deep, drains N. 50° E., about 8.00 chs. to the Santa Clara River.

48.35 Canal at N. foot of sandstone ridges or bluff, about 100 ft. below the 1/4 sec. cor., about 8 ft. wide and 6 ft. deep, drains S.E.; descend into Santa Clara River bottom. Enter dense cotton wood timber and willow undergrowth, bears S.E. and N.W.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.

- 51.00 Santa Clara River about 30 lks. wide with banks on either side about 6 ft. high, water clear and fresh, drains S.E.; ascend.
- 51.53 Willow fence bears S.E. and N.W.
- 54.25 Road from Santa Clara up the river and to the wood hills on W. side of Tp., bears S.E. and N.W.
- 55.29 Leave River bottom and begin ascent of sandstone bluff on S.W. slope of same, bears S.E. and N.W. Leave dense cotton woods and willows.
- 61.44 Stone wall on top of ledges about 50 ft. above the river, bears N. 75° W. about 2.00 chs., and S. 60° E. 2.50 chs., and joins the ledges on top of bluff.; ascend more gradually over top of bluff, sloping S. and S.E.
- 76.44 Intersect E. and W. line, S. bdy. of sec. 8, at 9.90 chs. N. 89° 23' E. from the old cor. of secs. 7, 8, 17 and 18, heretofore described.
- Set a volcanic stone, 14x10x6 ins., 10 ins. in the ground, for closing cor. of secs. 17 and 18, marked C.C. on S., with 5 grooves on E. and 4 grooves on S. faces; and raised a mound of stone 2 ft. base, 1 1/2 ft. high, S. of cor. Pits impracticable.
- I destroy the marks on the old cor. of secs. 7, 8, 17 and 18, that pertain to secs. 7, 17 and 18, and re-mark and witness same for ^{SW} cor. of sec 8 only.
- Land mountainous and broken, except narrow strip of nearly level land in river bottom.
- Soil on the ridges sandy and stony, in the river bottom, sandy loam; 4th. and 2nd. rate.
- No timber except cottonwoods along the river bottom. Scattering greasewood, and iron wood undergrowth on the ridges and bluffs and dense willows in the river bottom.
- Mountainous land or land covered with dense undergrowth or cottonwood timber on 76.44 chs.

Subdivisions of T.42 S., R.16 W.-Continued.

Chains.	<p>Knowing from previous retracements and survey of subdivisions that a closing cor. will be necessary on the W. bdy. of sec. 8, I proceed to the cor. of secs. 7, 12, 13 and 18 on the W. bdy. of the Tp., heretofore described.</p> <p>February 15, 1900: At this cor. I set off $120^{\circ}36'$ S. on the decl. arc; and, at $0h14^m$ p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}10'$ II.</p> <p>Thence I run</p> <p>$S.89^{\circ}55'$ E. on a true line bet. secs. 7 and 18.</p> <p>Descend gradually along Santa Clara River bottom, through dense willow undergrowth and cotton wood and black willow timber.</p> <p>.50 Descend over bank about 20 ft. high into river bottom, bears S.E. and N.W.</p> <p>2.40 Santa Clara River about 30 lks. wide with banks on either side about 6 ft. high, clear fresh water about 6 ins. deep, medium current, drains $S.50^{\circ}$ E.</p> <p>5.00 Road bears $S.60^{\circ}$ E. and $N.60^{\circ}$ W.</p> <p>9.25 Recross road bears $N.70^{\circ}$ E. and $S.70^{\circ}$ W.</p> <p>17.50 Recross Santa Clara River, drains $N.75^{\circ}$ E. - 30 lks. wide.</p> <p>25.92 Recross Santa Clara River, drains $S.50^{\circ}$ E. - 30 lks. wide.</p> <p>30.00 Old willow fence on creek or river bank, bears $N.55^{\circ}$ W. and $S.55^{\circ}$ E. Leave river bottom, also leave dense willows and cottonwood and black willow timber, bears N.E. and S.W.; begin to ascend S.W. slope of sandstone bluff, bears $S.55^{\circ}$ E. and $N.55^{\circ}$ W.</p> <p>31.30 Road from St. George and Santa Clara to the wood hills and farms along river bottom, bears $S.55^{\circ}$ E. and $N.55^{\circ}$ W. Having previously retraced this line and</p> <p>42.00 In order to place fractional distance against the W. bdy. of Tp. J establish $1/4$ sec. cor. at this point as follows:- The point for cor. falls on a gray sandstone in place $4x3x2$ ft. above ground. I cut a cross (X) at the exact cor. point about 6 ins. long and $1/4$ in. deep, marked $1/4$ on N. side of cross (X); and raised a mound of stone 2 ft. base, $1 1/2$ ft. high, N. of cor. Pits impracticable. The cor. is on steep S.W. slope of bluff about 150 ft. above the river bottom.</p> <p>42.25 Top of ledges on S.W. edge of bluff, about 50 ft. above the $1/4$ sec. cor., bears $S.40^{\circ}$ E. about 12.00 chs.,</p>
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Subdivisions of T.42 S., R.16 W.-Continued.

Chains. thence E., and N.50° W.; descend on N.E. slope of sandstone
stone ridges or Santa Clara bluff.

69.00 Foot of descent about 100 ft. below top of bluff,
bears N. and S.; ascend.

82.00 Intersect N. and S. line, on W. bdy. of sec. 8, 3.40 chs.,
N. 00° 44' W. from old cor. of secs. 7, 8, 17 and 18, as now
marked for ^{SW} cor. of sec. 8 only, and heretofore described.
Set a volcanic stone 17x14x6 ins., 12 ins. in the
ground, for closing cor. of secs. 7 and 18, marked C.C.
on W., with 4 notches on S. and 5 notches on E. edges
faces; and raised a mound of stone, 2 ft. base, 1 1/2 ft.
high, W. of cor. Pits impracticable.
The cor. is on S.W. slope of bluff about 25 ft. above
foot of descent.
Land mountainous and broken river bottom.
Soil on the ridges sandy, gravelly and stony; 4th. rate.
Along the narrow river bottom the soil is sandy, loamy
and gravelly; 2nd. and 3rd. rate.
Cotton wood and black willow timber along the river
bottom.
Scattering greasewood, sage and iron wood undergrowth
on the ridges and dense willow undergrowth along the
river bottom.
Mountainous land or land covered with dense willows
or cottonwood and black willow timber on 82.00 chs.
February 15, 1900.

GENERAL DESCRIPTION.

The South bdy. of this Tp. crosses a low range
of volcanic ridges with narrow winding valley cut
with the Santa Clara River on the E. part, broken sand
stone ridges and high bluff on central part; and broken
clay and gypsum hills and ridges cut with numerous
small washes and hollows on the W. The W. Bdy. runs
over low gypsum hills and ridges cut with washes and
hollows on the S. part; over high stony bluffs and
broken sandstone ridges on central part; crosses the
Santa Clara in a narrow canon, thence over high
bluff and enters high sandy bench near the N.W. cor.
of the Tp.

The N.bdy.of the Tp.crosses over a rolling sandy bench at S.foot of and adjoining a high range of red sandstone mountains on the W.;thence over lava bed and lava ridges on the central part;and high red sandstone and volcanic ridges and bluffs on the E. The E.bdy.of the Tp.lies along high lava and red sandstone ridges on the N.and Central parts;and the St.George valley at S.foot of high sandstone bluffs on the South.

The interior surface of the Tp.,is principally made up of high red sandstone,gray sandstone and volcanic ridges and bluffs which surround narrow valleys and low hills or benches. A lava bed,very rough,and cut with numerous caverns of various shapes and dimensions,crosses secs.3 and 4,9 and 10,and N. part of secs.15 and 16,having an average width of about 1/2 mile. There is very little soil in this lava bed and vegetation is scarce;but the indications are that in time it will be covered with the drifting sands.

In the N.W.part of the Tp.is a high rolling sandy bench adjoining the Santa Clara town and used by its citizens for the grazing of domestic animals.In the Southwestern part of the Tp.,an extensive area consisting of low hills and ridges of gypsum and clay and sandstone bluffs extending from the Santa Clara River to and beyond the S.and W.bdy is enclosed with fences connecting the ledges;and also occupied by the citizens of Santa Clara for pasturage and grazing purposes.

The drainage of the Tp.has a general trend toward the Santa Clara River,which crosses the township from N.W.to S.E.,through a narrow canon and winding narrow valley.

The soils on the low hills,benches and in the valleys are generally rich sandy loams,gravelly in parts;and on the mountains and higher ridges and bluffs,stonny,with sufficient rich soils to produce undergrowth,grasses and shrubbery in abundance when sufficient moisture is supplied,being especially

Subdivisions of T.42 S.,R.16 W.-Continued.

adapted as a winter range for stock and sheep driven from the higher and colder altitudes. In the narrow valley along the Santa Clara River the soil is generally sandy loams; and all the available lands are occupied by the citizens of the Santa Clara village and St. George City, and cultivated to orchards, vineyards, farms, gardens and pasturage, being especially suitable for the raising of early fruits and vegetables. In the St. George valley on the S.E. part of the Tp., the soil is rich sandy loam with slight traces of alkali, being also adapted to the raising of early fruits and vegetables.

The City of St. George, the County Seat of Washington County, lies in the St. George Valley, adjoining the high red sandstone mountains on its N., and volcanic ridges on its W., and covers an area of about 640 acres in secs. 24, and 25 and in secs. 19 and 30 in the adjoining Tp. This city is especially noted for its imposing public buildings, as the County Court House and Church constructed of red sandstone, its public school house, built of ^{red sandstone and} a hard basaltic stone of a most beautiful lustre, and the Latterday Saint or "Mormon" Temple constructed of a white granite. The City is laid out in blocks of about 32 rods square, surrounded with streets running at right angles N. and S., and E. and W.; ^{about} 6 rods in width, and lined on either side with a variety of shade trees; and orchards, vineyards and gardens surround the many beautiful residences.

The Santa Clara village or town lies along a narrow winding valley on the N. side of the Santa Clara River in secs. 16 and 17. The District School House and Church constructed of a fine quality of brick and sandstone are the principal public buildings. The streets are lined with beautiful shade trees, and orchards, vineyards and gardens surround the private dwellings and line the Santa Clara River adjoining the town. The raising of early vegetables and fruits is the principal industry of its inhabitants. Peaches and grapes grown here are of a very fine flavor.

Subdivisions of T. 42 S., R. 16. W. - Continued.

There is a small fenced pasture known as the Ashby Pasture with cabin adjoining a small spring, in S.E. $1/4$ of sec. 11. These improvements are claimed by Peter Ostensen of St. George, and are of the value of about \$150.00. In the S.E. $1/4$ of sec. 10, there is a small spring and reservoir adjoining a fenced farm covering about 10 acres, known as the Gray Farm, and claimed by Wm. Gray of St. George; value of improvements about \$150.00. Dodge's spring, not visible from the sec. line, lies about 10.00 chs. E. of the $1/4$ sec. cor., bet. secs. 13 and 14. The improvements claimed by Charles Mr. Dodge of St. George, who now resides off this claim, consists of a small spring, pond, bath house, boats and boat house, dwelling house and hotel, grove, farm and orchard of about 10 acres, with corralls etc., and are of the value of about \$1500.00.

The principal source of water supply is the St. George ^{or City} creek and the Santa Clara River, which with several small streams and springs, furnish water for culinary, domestic and irrigation purposes. The St. George ^{or City} creek, a stream of clear fresh water, heads near the S.E. cor. of sec. 13, where it is fed with a stream about 2 lks. wide & 3 ins. deep from the Pine Valley Mountains, forming a creek about 4 lks. wide and 18 inches deep, runs S. Westerly to the smelter in the N. central part of sec. 24, thence Southeasterly and enters St. George City on its N., where it is divided into smaller streams and distributed through the City.

The Santa Clara River is a stream of clear fresh water, averaging about 12 lks. wide and 1 ft. deep, which swells considerably during the stormy season, and diminishes during the hot dry periods, is tapped at short intervals along its channel and used for irrigation and domestic purposes along the river bottom and benches adjoining the same. Small springs in Secs. 10 and 11 are used for irrigation purposes and for watering stock and sheep; and small springs in sec. 14, on N. side of sec. 10, and in S.E. $1/4$ of sec. 30, are utilized as watering places for stock and sheep grazed in the surrounding country. The Dodges spring

Subdivisions of T.42 S., R.16 W.-Continued.

of the high sandstone mountain, in the N. central part of sec.24. There are no ores being mined at present in the township. An old prospect hole with location monuments is found in E.1/2 of S.W.1/4 and E.1/2 of S.E.1/4 of sec.4, with slight indications of copper and silver minerals in these subdivisions and in W.1/2 of N.E.1/4 and E.1/2 of N.W.1/4 of sec.9, adjoining same; and copper and silver ores have recently been discovered on the E. slope of the black ridge in W.1/2 of S.E.1/4 of sec.25 and W.1/2 of N.E.1/4 of sec.35; all of which subdivisions above named I hereby return as mineral lands.

February 15, 1900.

Mayhew H. Galley
U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, A.D., 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisions of T. 42 S., R. 16 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.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 31 day of May, A.D. 1901, 1891



Edward Henderson
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1902, 1890

The foregoing field notes of the survey of the subdivisions of Township 42 South Range 16 West of the Salt Lake Base and Meridian, Utah

executed by Mayhew H. Dalley under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward Henderson
United States Surveyor General

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

United States Surveyor General

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V.

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BOOK A-286

3.13.

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

*Township No. 35 South, Range
No. 16 West.*

of the Salt Lake Base and Meridian,

in the State of Utah.

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. *224*, dated *January 23rd*, 1899

Survey commenced *April 18*, 1899

Survey completed *May 7*, 1900

6-161

m. Apr. 24th -
Sub - High - 51-17-65 ✓
" Low - 8-54-85 ✓

5972-56

Retraiment } 78-86 ✓
W. Poly Low }

NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury,	10 "
Robert A. Thorley,	Chairman
David Dix,	Mound
Thomas Urie,	M. "
David Dix	Ar. an.
Thomas Urie	Arman.
William Macfarlane,	Flagman

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BOOK A-286

INDEX DIAGRAM.

Township *No. 35 S*, Range *No. 16 W*

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Max W. Woodbury and Robert A. 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
Subdivisions of Twp. 35 S., R. 16 W. of the Salt Lake Base & Meridian, Utah
Max W. Woodbury, Chairman
Robert A. Thorley, Chairman

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



My Commission Expires
March 29th, 1903

Senora C. Dalley
Notary Public

WE, David Dix and Thomas Urie
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
Subdivisions of Twp. 35 S., R. 16 W. of the Salt Lake Base & Meridian, Utah
David Dix, Moundman
Thomas Urie, Moundman

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



My Commission Expires
March 29th, 1903

Senora C. Dalley
Notary Public

WE, David Dix and Thomas Urie
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
Subdivisions of Twp. 35 S., R. 16 W. of the Salt Lake Base & Meridian, Utah
David Dix, Axman
Thomas Urie, Axman

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



My Commission Expires
March 29th, 1903

Senora C. Dalley
Notary Public

I, William Macfarlane, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of
Subdivisions of Twp. 35 S., R. 16 W. of the Salt Lake Base & Meridian, Utah
William Macfarlane, Flagman

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



My Commission Expires
March 29th, 1903

Senora C. Dalley
Notary Public

Subdivisions of T.35 S., R.16 W.

Chains. Survey commenced April 18, 1900, and executed with a W. & L. E. Gurley Light Mountain Solar Transit No. 31, with Jones' Patent Double Latitude Arc No. 45 with reversible level bubble.

The horizontal limb is provided with two opposite verniers reading to single minutes of arc; the verniers of the declination arc reads to thirty seconds; and the verniers of the smaller and larger latitude arcs read to single minutes and to ten seconds of arc respectively.

The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct, and was approved by the Surveyor General for Utah, April 28, 1899.

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

At the standard cor. of secs. 35 and 36, on the S. boundary of T. 35 S., R. 16 W., which is a granite 6X11X6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General; approximate latitude $37^{\circ} 43'$ N.; longitude $113^{\circ} 34'$ W.; I set off $37^{\circ} 43'$ N. on the lat. arc; $10^{\circ} 57'$ N. on the decl. arc; and, at $3^{\text{h}}.59^{\text{m}}$ p.m., L.M.T., determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground 5 chs. N. of the cor.

April 18, 1900.

April 19: At $5^{\text{h}} 37^{\text{m}}$ a.m., l.m.t., I observe Polaris at Eastern Elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of my station.

At 7 h a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 33'$ to the W., and mark the true meridian thus determined, by cutting a small groove in the stone set Apr. 18, on which the true meridian falls. 25 ins. east

Chain of the mark determined by the solar.
 At 7h 45m a.m., l.m.t., I set off 37.43' N. on the lat. arc; II 10'30" 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 chs. N. of my station; this mark falls 0.2 ins. east of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for true meridians, respectively about 0'13" West, and 0'10" East of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h a.m. l.m.t. is N. 16 W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16 56' E.

From the standard cor. of ^{secs. 35&36} already described, I run North 0 1' W., bet. secs. 35 and 36.

Over rich clay and loamy soil, almost level, gradually sloping to the North.

- .60 Enter dense sage undergrowth bears S. 60 E. and N. 60 W.
Clay soil covered with fine gravel.
 - 9.00 Enter dense greasewood undergrowth, bears E. and W.
Leave sage undergrowth.
 - 20.00 Enter scattering sage undergrowth, bears E. and W.
 - 34.00 Enter dense sage undergrowth and scattering greasewood.
 - 40.00 Set a red sandstone 18X10X8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18 X12 ins. N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor. About 20 ft. below the sec. cor.
 - 50.00 Set a trachyte stone 20X10X8 ins., 16 ins. in the ground for cor. of secs. 31, 32, 35 and 36, marked with I notch on S. and E. edges; dug pits 18X18X12 ins. in each sec. 3 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, E. of cor. About 20 ft. below the 1/4 sec. cor. Land almost level.
- Soil, clay and loam; flat, and 2nd. rate. No timber.
 Dense sage and greasewood undergrowth 45.40 chs.

Subdivisions of T.35 S., R.16 W.-Continued.

- Chains. East on a random line bet. secs. 25 and 36.
- 40.00 Set temp. 1/4 sec. cor.
- 79.98 Intersect Pine Valley Guide Meridian at 22 lks. N. of the cor. of secs. 25, 30, 31, and 36, which is a volcanic stone, 5X10X 5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
Thence I run
N. 89 51' W. on a true line bet. secs. 25 and 36. Over rich clay and sandy soil, almost level, through scattering sage and greasewood undergrowth.
- 34.38 Trail bears N. 30 W. and S. 30 E.
- 39.99 Set a trachyte stone 14X14X12 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 60.00 Enter dense sage undergrowth, bears N. and S.
- 79.98 The cor. of secs. 25, 26, 35 and 36.
Land nearly level, gradually sloping to the N. Soil, rich clay and sand loam, 1st. and 2nd. rate. Good grazing.
No timber.
Dense sage undergrowth, ^{on} 19.98 chs.

- N. 0 1' W., bet. secs. 25 and 26.
Over land almost level, gradually sloping to N., through scattering sage and dense greasewood undergrowth, rich clay-loamy soil.
- 12.35 Trail bears E. and W.
- 30.46 Trail bears N.E. and S.W.
- 40.00 Set a volcanic stone 15X12X5 ins., 10 ins. in the ground, for 1/4 sec. cor.; marked 1/4 on W. face; dug pits pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 40.85 Old road bears N. 30 W. and S. 30 E.
- 44.05 Trail bears N.W. and S.E.
- 80.00 Set a blue limestone 17X10X8 ins., 12 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, marked with 2 notches on the S. and 1 notch on the E. edges; dug pits 18X

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Subdivisions of T.35 S., R.16 W.-Continued.

Chains.	<p>18X12 ins.in each sec. 5 1/2 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,W.of cor. Land almost level,gradually sloping to N. Soil,clay and loam,1st.and 2nd.rate. No timber. Good grazing. Dense greasewood and sage undergrowth 80.00 chs.</p>
40.00	<p>S.89 51' E.on a random line bet.secs.24 and 25. Set temp.1/4 sec.cor.</p>
79.70	<p>Intersect Pine Valley Guide Meridian at 20 links N. of cor.of secs.19,24,25 and 30,which is a granite stone 15X12X6 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.</p>
	<p>Thence I run</p>
	<p>N.89 42' W.,on a true line bet.secs.24 and 25.</p>
	<p>Descend gradually over low sandhills,through scattering sage and rabbit brush undergrowth.</p>
9.70	<p>Foot of sand hills,about 20 ft.below the sec.cor, bears N.and S.;thence over clay soil almost level.</p>
25.20	<p>Begin ascent of sand hill,bears N.10 E.and S.10 W.</p>
30.00	<p>Top of sand hills,about 25 ft.above the foot,bears N.and S.,descend.</p>
31.70	<p>Foot of sandhills,about 25 ft.below the top,bears N. 10 E.and S.10 W.;thence over level land,through dense sage and greasewood undergrowth,loamy soil.</p>
39.85	<p>Set a trachyte stone 15X15X3 ins.,10 ins?in the ground: for 1/4 sec.cor.,marked 1/4 on N.face; dug pits 10X10 X12 ins.,E.and W.of stone 3 ft.dist. ;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.</p>
79.70	<p>The cor.of secs.23,24,25 and 26.</p>
	<p>Land,broken sand hills on E.and level on W.</p>
	<p>Soil,sandy,clay and loam;3rd.2nd.and 1st.rate.No timber.</p>
	<p>Dense sage and greasewood undergrowth 48.00 chs.</p>
	<p>Good grazing.</p>
	<p>April 19:At this cor.I set off 11 13' 30" N.on the decl.arc;and at 11 h 59 m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37 44'40" N</p>

Subdivisions of T.35 S., R.16 W.-Continued.

- Chains. N. ⁰ 1' W., bet. secs. 23 and 24.
 Over land almost level, gradually sloping to North, in clay-loamy soil, through dense sage and greasewood undergrowth.
- 10.00 Leave sage undergrowth, still in dense greasewood undergrowth, bears E. and W.
- 23.00 Enter tall, dense sage, ⁰ ⁰ and rabbit brush undergrowth, bears N. 25 E. and S. 25 W.; leave greasewood.
- 40.00 Set a yellow sandstone 16X8X4 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
- 40.60 Enter dense greasewood undergrowth; leave sage and rabbit brush, bears N. 50 W. and S. 50 E.
- 80.00 Set a trachyte stone 17X10X5 ins., 12 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, marked with 3 notches on the S. and 1 notch on E. edges; dug pits 18X18X12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, almost level.
 Soil, clay and loam; 1st. and 2nd. rate.
 No timber.
 Dense sage, greasewood and rabbit brush, ^{undergrowth on} 80.00 chs.
-
- ⁰ S. 89 42' E. on a random line bet. secs. 13 and 24.
- 40.00 Set temp. 1/4 sec. cor.
- 79.80 Intersect Pine Valley Guide Meridian at the cor. of secs. 13, 18, 19, and 24, which is a granite stone 6.8X6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
 Thence I run
⁰ N. 89 42' W. on a true line bet. secs. 13 and 24.
 Over land almost level, in sandy soil, through dense sage, greasewood and rabbit brush undergrowth.
- 7.80 Enter clay soil, bears N. and S. Leave dense undergrowth
- 18.80 Enter sandy soil, bears N. and S.
- 23.80 Enter low sandhills, bears S. 15 E. and extends across the sec., and N. about 5.00 chs.
- 31.80 Leave low sandhills, bears N. and S. 15⁰ E.
- 36.80 Enter clay, loamy soil, bears N. and S.

Subdivisions of T.35 S., R.16 W.--Continued.

Chains	Enter dense greasewood undergrowth, bears N. and S.
39.90	Set a red sandstone 15X10X6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
48.80	Enter clay soil covered with fine gravel, bears N. & S.
54.80	Leave gravelly soil, enter clay, loamy soil, bears N. & S.
79.80	The cor. of secs. 13, 14, 23, and 24.
50 50 20 10 1	Land mostly level, broken in sand hills. Soil sand, clay and loam; 1st, 2nd, and 3rd rate. No timber. Dense undergrowth 50.80 chs.
<p>April 19: At 3 h. 50 m p.m., l.m.t., I set off 37° 45' 30" N. on the lat. arc; 11 17' 30" N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 13, 14, 23, and 24.</p> <p>Thence I run N. 0. 1' W. bet. secs 13 and 14.</p> <p>Over land almost level, gradually sloping to N., in clay, loamy soil, through dense greasewood undergrowth.</p>	
40.00	Set a gray granite stone 16X10X4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18 X12 ins., N. and S. of Stone, 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
45.00	Leave loamy soil, bears E. and W., continue in clay soil.
80.00	Set a volcanic stone 16X12X5 ins., 11 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 4 notches on the S. and 1 notch on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, almost level, gradually sloping to N. Soil, clay loam and clay; 1st. and 2nd. rate. No timber. Dense undergrowth 80.00 chs.
April 19, 1900.	
40.00	S. 89° 42' E. on a random line, bet. secs. 12 and 13. Set temp. 1/4 sec. cor.

Subdivisions of T.35 S.,R.16 W.--Continued.

Chains

- 79.96 Intersect Pine Valley Guide Meridian at 22 links S. of the cor. of secs. 7, 12, 13 and 18, which is a granite stone 6X9X6 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General. Thence I run N. 89° 51' W. on a true line bet. secs. 12 and 13. Over land almost level, gradually sloping to N. In sandy soil, through dense sage undergrowth.
- I.30 Enter clay-loamy soil, bears N. and S.; leave sandy soil.
- 39.98 Set a gray granite stone 12X10X6 ins.; 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
- 43.50 Enter dense greasewood and clay soil, bears N. and S.; leave clay-loamy soil.
- 50.00 Enter sandy-gravelly soil; leave clay soil bears N. & S.
- 59.00 Leave sandy, gravelly soil, bears N. and S. Enter clay soil.
- 79.96 The cor. of secs. 11, 12, 13 and 14. Land almost level. Soil, sandy, clay and loam and sandy and gravelly, 2nd. 1st. and 3rd. rate. No timber. Dense sage and greasewood undergrowth 79.96 chs. April 20: At this cor. I set off 11 34' 30" N. on the decl. arc; and, at 11h 59m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37 41' 00" N. N. 0. 1' W., bet. secs. 11 and 12. Over level land, gradually sloping to N., through dense greasewood undergrowth.
- 40.00 Set a volcanic stone 15X10X6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 80.00 Set a gray granite stone 17X10X7 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a

Subdivisions of T.35 S.,R.16 W.--Continued.

Chains mound of earth, 4 ft. base, 2 ft. high, W. of cor.
 Land, level, gradually sloping to N.
 Soil, rich clay; 1st. and 2nd. rate. No timber.
 Dense greasewood undergrowth 80.00 chs.

40.00 Set temp. I/4 sec. cor.
 79.78 Intersect Pine valley Guide Meridian at 16 links S. of
 of cor. of secs. I, 6, 7, and 12, which is a granite stone
 4X8X7 ins. above ground, firmly set, marked and wit-
 nessed as described by the Surveyor General.

Thence I run
 S. 89° 51' E. on a random line bet. secs. I and 12.
 N. 89° 58' W. on a true line bet. secs. I and 12.
 Over level land, in clay soil, through dense grease-
 wood undergrowth.

7.28 Enter very tall scattering sage and rabbit brush, and
 and continue in dense greasewood, bears N. and S. Enter
 loamy-clay soil.

20.00 Enter sandy soil, bears N. and S.; leave loamy-clay soil.
 23.00 Foot of sandhills bears N. and S.
 23.80 Top of sandhills, about 20 ft. above the foot, bears N.
 4.00 chs. and S. about 8.00 chs. Descend.
 24:30 West foot of sandhills, about 20 ft. below the top, bears
 N. and S.; thence over level ground, in sandy loam; and
 dense sage, rabbit brush and greasewood undergrowth.

35.80 Leave dense sage and rabbit brush; still in dense
 greasewood undergrowth, bears N. 20° W. and S. 20° E.
 39.89 Set a trachyte stone 14X10X6 ins., 10 ins. in the
 ground, for I/4 sec. cor., marked I/4 on N. face; dug
 pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and
 raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high,
 N. of cor. Enter clay, loamy soil, bears N. 20° W. and S.
 20° E..

57.80 Leave loamy soil and continue in clay soil..
 79.78 The cor. of secs. I, 2, 11, and 12.
 Land almost level, except on sandhills, rolling.
 Soil sand, clay and loam, and clay; 2nd. and 1st. rate.
 Dense undergrowth 79.78 chs. No timber..

1900
 April 20: At 4h 10m p.m., l.m.t., J. set off 37° 47' 44" N
 on the lat. arc; II 38' " N. on the decl. arc; and de-

Subdivisions of T.35 S.,R.16 W.--Continued.

Chains. termine a true meridian with the solar, at the cor. of secs. I, 2, II, and 12.

Thence I run

N. 0° 1' W., on a random line bet. secs. I and 2.

40.00 Set a temp. 1/4 sec. cor.

79.82 Intersect the N. boundary of the Tp. at 16 links E. of cor. of secs. I, 2, 35 and 36, which is a volcanic stone 6X8X5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

Thence I run

S. 0° 8' E. on a true line bet. secs. I and 2.

Over almost level ground, sloping to N., through dense greasewood undergrowth, in clay soil.

39.82 Set a yellow sandstone, 12X12X5 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

79.82 The cor. of secs. I, 2, II, and 12.

Land almost level, gradually sloping to W.

Soil, clay; 2nd. rate. No timber.

Dense greasewood undergrowth 79.82 chs.

April 20, 1900.

1900

April 21: At the standard cor. of secs. 34 and 35, on the S. boundary of the Tp., which is a granite stone 15X10X6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General, at 7h⁰m a.m., l.m.t., I set off 37° 43' N. on the lat. arc; II 52' N. on the decl. arc; and determine a true meridian with the solar.

Thence I run

N. 0° 1' W., bet. secs. 34 and 35.

Over almost level ground, gradually sloping to N. and W., loamy soil, through dense sage undergrowth.

3.00 Leave dense sage and enter dense greasewood undergrowth, bears S. 25° E. and N. 25° W. Enter clay soil; leave loamy soil.

37.00 Leave dense greasewood undergrowth and enter medium dense greasewood, bears E. and W.

40.00 Set a volcanic stone 17X10X6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a

Subdivisions of T.35 S., R.16 W.-Continued.

Chains	mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
80.00	set a granite stone 16X10X6 ins., 11 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on the E. and 2 notches on the N. edges; dug pits 18X18 X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, almost level, gradually sloping to N. and W. soil, loam and clay; 1st. and 2nd. rate. No timber. Dense sage and greasewood undergrowth 37.00 chs.
	E. on a random line bet. secs. 26 and 35.
40.00	Set temp. 1/4 sec. cor.
79.94	Intersect N. and S. line at 40 links N. of the cor. of secs. 25, 26, 35 and 36; thence I run N. 89° 43' W. on a true line bet. secs. 26 and 35. Over level land, gradually sloping to W. and N., in loamy soil, through dense sage and scattering greasewood undergrowth.
26.80	Enter dense greasewood and leave sage, bears N. & S.
37.60	Enter dense sage and leave dense greasewood undergrowth, bears N. and S., in clay loamy soil.
39.97	Set an iron stone 15X8X6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
51.80	Enter sandy, gravelly soil, bears N. and S.
68.00	Leave dense sage undergrowth and enter scattering greasewood and clay soil, bears N. and S.
79.94	The cor. of secs. 26, 27, 34, and 35. Land almost level, gradually sloping to N. and W. Soil, loam, clay, sandy and gravelly; 2nd. and 3rd. rate. No timber. Dense sage and greasewood undergrowth 68.00 chs. Note: -At 9 a.m., heavy snow storm prevents further work this day.

April 21, 1900.

Note.-Continuous heavy snow and rain prevents work this day.

April 23, 1900.

Subdivisions of T.35 S.,R.16 W.-Continued.

Chains	<p>April 24: At 7 h 58m a.m., L/M.T., I set off ⁰ 37.441' N. on the lat. arc; 12 52' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 26, 27, 34, and 35; thence I run ⁰ N. 0 1' W. bet. secs. 26 and 27.</p> <p>Over almost level land, gradually sloping to N., in clay soil, through dense greasewood undergrowth and scattering sage.</p>
26.00	<p>Enter dense sage undergrowth and loamy soil; leave greasewood and clay soil, bears N. 55 E. and S. 60 W.</p>
40.00	<p>Set a granite stone 15X12X10 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone. 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.</p>
64.60	<p>Enter dense greasewood undergrowth and clay soil, bears N. E. and S. W.; still in sage; leave loamy soil.</p>
70.00	<p>Trail bears S. 40 E. and N. 40 W.</p>
80.00	<p>Set a granite stone 17X12X6 ins., 12 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on the S. and E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land almost level, gradually sloping to N. with fall of about 30 ft. to a mile.</p> <p>Soil, clay and loam; 2nd. and 1st. rate.</p> <p>Dense greasewood and sage undergrowth 80.00 chs.</p> <p>⁰ S. 89 43' E. on a random line bet. secs. 23 and 26.</p>
40.00	<p>Set temp. 1/4 sec. cor.</p>
80.00	<p>Intersect N. and S. line at 4 links S. of cor. of secs. 23, 24, 25, and 26.</p> <p>Thence I run ⁰ N. 89 45' W., on a true line bet. secs. 23 and 26.</p> <p>Over level ground.</p> <p>Through dense greasewood and sage undergrowth and loamy soil.</p>
10.00	<p>Leave sage undergrowth and loamy soil; still in dense greasewood; enter clay soil bears North and South.</p>
27.00	<p>Enter dense sage undergrowth and loamy soil, bears N. and S.; still in greasewood; leave clay soil.</p>
32.50	<p>Enter sandy, gravelly soil, bears N. and S., leave loamy soil.</p>

Subdivisions of T.35 S.,R.16 W.-Continued.

Chains	
38.00	Leave sandy-gravelly soil and enter clay soil, bears N. and S.
40.00	Set a trachyte stone 12X12X6 ins., 8 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18 X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor
43.00	Enter loamy soil and leave clay soil, bears N. and S.
67.60	Leave loamy soil and enter clay soil, bears N. and S.; leave sage undergrowth.
78.60	Trail bears N.W. and S.E.
80.00	The cor. of secs. 22, 23, 26, and 27. Land level, gradually sloping to N. No timber. Soil, loam and clay; 1st. and 2nd. rate. Dense sage and greasewood undergrowth 80.00 chs.
0	N. 0 1/4 W., bet. secs 22 and 23.
	Over nearly level land, gradually sloping to N. and N. and N.W.
	In clay soil, through dense greasewood undergrowth.
.30	Trail bears N. 60 W. and S. 60 E.
6.95	Trail bears E. and W.
8.50	Storm water pond, about 6.00 chs. long N.W. and S.E. and about 50 links wide, bears W. about 5.50 chs.
29.00	Enter dense rabbit and sage brush and loamy soil, bears N. 40 E. and S. 25 W.; leave greasewood & clay soil.
40.00	Set a granite stone 15X12X10 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18 X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
43.00	Enter dense greasewood undergrowth and clay soil, bears N.E. and S.W.; leave sage and rabbit brush & loamy soil
61.00	Enter dense sage and rabbit brush and loamy soil, bears N. 40 E. and S. 15 W.; leave greasewood & clay soil.
64.00	Storm water pond bears about 5.00 chs. N. 20 E. and about 2.00 chs. S. 20 W., 50 links wide and 4 ft. deep.
69.00	Enter dense greasewood undergrowth and leave dense sage and rabbit brush, clay soil, bears N.E. & S.W.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains

77.00 Enter dense sage and rabbit brush and loamy soil, bears N.E. and S.W.; leave dense greasewood & clay soil.

80.00 Set a granite stone 17X12X4 ins., 12 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, marked with 3 notches on the S. and 2 notches on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land almost level, gradually sloping to N. and N.W. about 40.00 chs, thence to N.E.

Soil, clay and loam; 2nd. and 1st. rate. No timber. Dense undergrowth 80.00 chs.

April 24: At this cor. at 11h 58m a.m., l.m.t., the sky is overcast and I am unable to observe the sun on the meridian, and record the lat.

o ✓
S. 89 45' E. on a random line bet. secs. 14 and 23.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line, 7 links S. of the cor. of secs. 13, 14, 23, and 24.

Thence I run

o ✓
N. 89 48' W., on a true line bet. secs. 14 and 23.

Over almost level land, in loamy soil, through dense greasewood undergrowth.

15.00 Enter scattering sage and greasewood, and clay soil, bears N. and S.; leave dense undergrowth & loamy soil.

35.00 Enter dense greasewood undergrowth and loamy soil, bears N. and S.; leave scattering brush & clay soil.

39.98 Set a granite stone 14X10X5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.

47.50 Enter dense sage & rabbit brush; ^{still} in greasewood undergrowth, bears N. and S.

70.00 Enter clay soil, bears N. and S.; leave loamy soil.

79.96 The cor. of secs. 14, 15, 22, and 23.

Land nearly level, gradually sloping to N.

Soil, loam and clay; 2nd. and 3rd. rate. No timber.

Dense sage and greasewood undergrowth 59.96 chs.

59.96
30.10

Subdivisions of T.35 S., R.16 W.-Continued.

Chains	North 0' 1' W. bet. secs. 14 and 15. Over almost level ground, gradually sloping to N. In dense sage and rabbit brush undergrowth, and clay soil.
29.75	Trail bears S. 75° W. and N. 75° E.
40.00	Enter dense greasewood undergrowth, bears N. E. and S. W. Set a trachyte stone 16X10X4 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
80.00	Set a trachyte stone 15X10X5 ins., 10 ins., in the ground, for cor. of secs. 10, 11, 14, and 15, marked with 4 notches on the S. and 2 notches on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of Cor Land almost level, gradually sloping to N. Soil clay; 2nd. rate. No timber Dense sage, rabbit brush and greasewood under-growth 80.00 chs.
40.00	S. 89° 48' E. on a ran- ^o dom line bet. secs. 11 and 14. Set temp. 1/4 sec. cor.
80.08	Intersect N. and S. line, 23 links S. of the cor. secs. 11, 12, 13, and 14. April 24: At this cor. I set off 37° 47' N. on the lat. arc; 13 0' N. on the decl. arc; and at 5h 0m p. m., l. m. t., determine a true meridian with the solar. Thence I run N. 89° 58' W. on a true line bet. secs. 11 and 14. Over almost level land, Gradually sloping to N. In clay soil, through dense greasewood and sage under growth.
38.26	Leave sage undergrowth; still in dense greasewood undergrowth, bears S. 10° W. and N.
40.04	Set a trachyte stone 15X10X5 ins., 10 ins., in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pitc 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains.

80.08 The cor. of secs. 10, 11, 14, and 15.

Land almost level, gradually sloping to N.

Soil, clay; 2nd. rate.

Dense undergrowth 80.08 chs.

April 24, 1900.

1900

April 25: At 9 h 58 m a.m., l.m.t., I set off 37.41' N. on the lat. arc; 13 13' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run N. 0 1' W. bet. secs. 10 and 11.

Over land almost level, gradually descending.

Through dense greasewood undergrowth, in heavy clay soil.

21.50 Trail bears N. 40 E. and S. 40 W.

40.00 set a volcanic stone 12X12X8 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

58.80 Road bears N. 30 E. and S. 30 W.

80.00 set a trachyte stone 12X12X8 ins., 8 ins. in the ground, for cor. of secs. 2, 3, 10, and 11, marked with 5 notches on the S. and 2 notches on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land almost level, gradually sloping to N. Soil, heavy clay; 2nd. rate. Dense greasewood undergrowth 80.00 chs.

S. 89 58' E. on a random line bet. secs. 2 and 11.

40.00 Set temp. 1/4 sec. cor.

80.22 Intersect the N. and S. line at 18 links N. of the cor. of secs. 1, 2, 11, and 12.

Thence I run

N. 89.50' W. on a true line bet. secs. 2 and 11.

Over almost level land, gradually sloping to N. & W.

In heavy clay soil, through dense greasewood undergrowth.

40.11 Set a yellow sandstone 17X10X6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug

Subdivisions of T.35 S., R.16 W.-Continued.

- Chains pits 18X18X12 ins., E. and W. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 71.40 Road bears N.30 E. and S.30 W.
- 80.22 The cor. of secs. 2, 3, 10, and 11.
Land, almost level, gradually sloping to N. and W.
Soil, heavy clay, 2nd. rate. No timber.
Dense greasewood undergrowth 80.22 chs.
April 25: At this cor. I set off 13 14'30" N. on the decl. arc; and, at 11h 08 m, a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37 41.44" N.
- N. 0 1' W. on a random line, bet secs. 2 and 3.
- 40.00 Set temp. 1/4 sec. cor.
- 79.55 Intersect N. bndy. of the Tp. 2: links W. of the cor. of secs. 2, 3, 34 and 35, which is a granite stone 6X7X5 ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.
Thence I run S. on a true line, bet secs. 2 and 3.
Over almost level land, gradually ascending.
Through dense sage undergrowth, in sandy and loamy soil.
- 39.55 Set a trachyte stone 17X12X7 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 48.40 Enter dense greasewood undergrowth and clay soil, bears E. and W.; leave sage undergrowth & sandy soil.
- 79.55 The cor. of secs. 2, 3, 10, and 11.
Land gradually descending to N. and W.
Soil sandy-loam and clay, 1st. and 2nd. rate. No timber.
Dense sage and greasewood undergrowth 79.55 chs.

From the standard cors. of secs. 33 and 34 on the S. boundary of the Tp., which is a granite stone 10X6X5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General, I run N. 0 2' W. bet secs. 33 and 34.
Over almost level land, gradually descending.
Through dense greasewood undergrowth, in clay soil.

Subdivisions of T.35 S., R.16 W. -Continued.

Chains.	
55.00	Leave dense sage undergrowth and enter dense greasewood undergrowth, bears N.10° E. & S.10° W.
63.80	Leave gravelly soil and enter heavy clay soil, bears N. and S.
72.65	Trail bears N.10° E. and S.10° W.
79.80	The cor. of secs. 27, 28, 33 and 34. Land almost level, gradually sloping to N. and N.E. Soil, heavy clay and gravelly; 2nd. and 3rd. rate. No timber. Dense greasewood and sage undergrowth 79.80 chs.
	N.0° 2' W. bet. secs. 27 and 28.
	Gradually descending over almost level land, in clay soil, through dense sage undergrowth.
40.00	Enter dense greasewood undergrowth bears E. and W. Set a yellow sandstone 16X10X5 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
	Leave dense sage undergrowth.
69.00	Trail bears N.30° W. and S.30° E.
80.00	Set a granite stone 17X10X4 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land almost level, gradually descending to N. and N.W. Soil, clay; 2nd. and 3rd. rate. No timber. Dense sage and greasewood undergrowth 80.00 chs.
40.00	S.89° 51' E. on a random line bet. secs. 22 and 27. Set temp. 1/4 sec. cor.
79.84.	Intersect N. and S. line, 14 links N. of the cor. of secs 22, 23, 26 and 27.
	Thence I run N.89° 45' W. on a true line bet. secs. 22 and 27.
	Over level land, gradually descending to N. and N.W. In heavy clay soil, through dense greasewood undergrowth.
10.30	Storm water pond about 50 links wide, 3 ft. deep,

Subdivisions of T.35 S., R.16 W.-Continued.

- Chains bears N.20^o E. about 4.00 chs. and S.20^o W. about 1.00 ch
- 39.92 Set an iron stone 20X10X9 ins., 15 ins. in the ground
30.92 for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18
X12 ins., E. and W. of stone 3 ft. dist.; and raised a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 69.70 Trail bears N.55^o W. and S.55^o E.
- 78.35 Trail bears N.W. and S.E.
- 79.84 The cor. of secs. 21, 22, 27 and 28.
Land almost level, gradually descending to N. and N.W.
Soil, heavy clay; 2nd. and 3rd. rate. No timber.
Dense greasewood undergrowth 79.84 chs.
April 26: At this cor., I set off 13 34' N. on the
decl. arc; and at 11h 57.7 m.a.m., l.m.t., observe the
sun on the meridian; the resulting lat. is 37 44' 40" N.
-
- N.0.2' W. bet. secs. 21 and 22
Over almost level land, gradually descending to N. and
N.W. In heavy clay soil, through dense greasewood
undergrowth.
- 2.00 Trail bears N.35^o W. and S.35^o E. Enter soil sprinkled
with fine gravel.
- 8.75 Storm water pond about 6.00 chs. W., about 50 links wide,
3 ft. deep, bears N.W. about 5.00 chs.
- 33.00 Trail bears N.60^o W. and S.60^o E.
- 40.00 Set an iron stone 17X12X12 ins., 12 ins., in the ground,
for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X
18X12 ins., N. and S. of stone 3 ft. dist.; and raised a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
A storm water pond about 5.00 chs. long N. and S. and
50 links wide, 3 ft. deep, bears N.E. about 3.00 chs.
- 63.80 Trail bears N.55^o W. and S.55^o E.
- 72.00 Enter dense sage & rabbit brush; ^{still} in greasewood under-
growth, bears N.E. and S.W.
- 80.00 Set a red granite stone 15X10X7 ins., 10 ins. in the
ground, for cor. of secs. 15, 16, 21 and 22, marked 35 S. on
N.E., 16 W. on S.E. faces, with
3 notches on the S. and E. edges; dug pits 18X18X12 ins
in each sec. 5 1/2 ft. dist.; and raised a mound of
earth, 4 ft. base, 1 1/2 ft. high, W. of cor.
Land almost level, descending to N. and N.W. 1st. 1/2
and descending to N. and N.E. 2nd. 1/2 mile.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains.	Soil heavy clay 1st. 40. chs, and clay loam 2nd. 40.00 chs.; 3rd. and 2nd. rate. ; No timber. Dense undergrowth 80.00 chs.
40.00	S. 89° 45' E. on a random line bet. secs. 15 and 22. Set temp. 1/4 sec. cor.
79.82	Intersect N. and S. line at the cor. secs. 14, 15, 22 and 23. Thence I run N. 89° 45' W. on a true line bet. secs. 15 and 22. Over level land, gradually descending to N. and N.W. In clay soil, through dense sage, greasewood and rabbit undergrowth.
8.80	Leave dense sage & rabbit brush bears N. & S.; still in dense greasewood.
39.91	set a limestone 13X10X6 ins., 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18 X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
53.80	Enter dense sage undergrowth with clay soil sprinkled with fine gravel bears N. and S.; still in greasewood
79.82	The cor. of secs. 15, 16, 21 and 22. Land almost level, gradual descent to N. and N.W. 1st. 1/2 mile; descent to N. and N.E. 2nd. 1/2 mile. Soil, clay and gravelly-clay; 2nd. and 3rd. rate. No timber. Dense sage and greasewood undergrowth 79.82.
	1900 April 26: At 4 h 0m p.m., I set off 0° decl. arc; 37° 45' 30" E. on the lat. arc; and determine a true meridian with the solar at the cor. of secs. 15, 16, 21 and 22. Thence I run N. 0° 2' W. bet. secs. 15 and 16. Gradually descending over land almost level. In clay soil, through dense sage undergrowth.
1.30	Enter dense greasewood undergrowth bears E. and W.; leave dense sage.
8.50	Trail bears E. and W.
9.00	Leave dense greasewood and Enter dense Sage undergrowth bears N. 50° E and S. 60° W
12.00	Enter sandy soil sprinkled with fine gravel, bears N.E. and S.W.; leave clay soil.
19.00	Trail bears N. 65° E. and S. 65° W.
22.00	Enter dense greasewood; still in sage undergrowth

Subdivisions of T.35 S., R.16 W.--Continued.

- Chains bears N.E. and S.W.; enter loamy soil.
- 34.06 Road bears N.10° E. and S.10° W.
- 40.00 Set a granite stone 17X7X5 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 80.00 Set a trachyte stone 12X12X4 ins., 8 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, marked with 4 notches on the S. and 3 notches on the E. edges; dug pits 18 X 18X12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. .
- Land almost level; 1st. 40.00 chs. sloping to N. and N. E.; 2nd. 40.00 chs. sloping to N. and N.W. .
- Soil, clay, loamy, sandy and gravelly; 2nd. 1st. and 3rd. rates. No timber.
- Dense sage and greasewood undergrowth 80.00 chs. .
- April 26, 1900.
-
- 1900
April 27: Continuous heavy snow and rain storm prevents work this day.
- April 27, 1900.
-
- S. 89.45° E. on a random line bet. secs. 10 and 15.
- 40.00 Set temp. 1/4 sec. cor.
- 79.78 Intersect the N. and S. line at the cor. of secs. 10, 11, 14 and 15.
- Thence I run
- N. 89.45° W. on a true line bet. secs. 10 and 15.
- Over almost level land, gradually descending to N. and N.E.; in clay soil; through dense greasewood undergrowth.
- 22.70 Enter dense sage & rabbit brush; ^{still} in greasewood undergrowth; ^{enter} loamy soil. bears S. 10° E. and N. 10° W.; leave clay soil
- 39.89 Set a volcanic stone 17X11X5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 40.50 Leave sage & rabbit brush undergrowth; ^{enter} clay soil, bears N. and S.; still in dense greasewood; leave loamy soil.
- 50.90 Trail bears N. 60° W. and S. 60° E.

Subdivisions of T.35 S., R.16 W.--Continued.

Chains	
52.70	Enter dense sage undergrowth and loamy soil bears N. and S.; leave dense greasewood and clay soil.
74.78	Road bears N. and S.
79.78	The cor. of secs. 9, 10, 15 and 16. Land almost level, 1st. 1/2 mi. gradually descending to N. and N.E.; 2nd. 1/2 mile gradually descending to N. and N.W. Soil, clay and loam; 2nd. and 1st. rate. No timber. Dense greasewood and sage undergrowth 79.78 chs.
	⁰ N. 0 2' W. bet. secs. 9 and 10. Over almost level land, gradually descending to N. and N.W.; in clay and loamy soil; through dense sage and greasewood undergrowth.
40.00	Set a volcanic stone 14X10X6 ins., 10 ins., in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of corner.
40.75	William Redd's well with water tank and troughs, bear E. about 14 chs.; corral and shearing pens about 4. chs. E. of well.
80.00	Set a trachyte stone 18X10X 6 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, marked with 5 notches on the S. and 3 notches on the E. edges; dug pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 1 1/2 ft. high, W. of cor. Land almost level, gradually descending to N. and N.W. Soil, clay and loamy; 2nd. and 1st. rate. Dense greasewood and sage undergrowth 80.00 chs. April 28: At this cor. I set off 14 12' ⁰ N. on the decl. arc; and, at 11 h 57. m. a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 37 ⁰ 47' 44" N.
	⁰ S. 89 45' E. on a random line bet. secs. 3 and 10.
40.00	Set ^{Temporary} 1/4 sec. cor.
79.80	Intersect N. and S. line 9 links S. of cor. secs 2, 3, 10, and 11. thence I run ⁰ N. 89 49' W. on a true line bet. secs. 3 and 10.

Subdivisions of T.35 S.,R.16 W.-Continued.

Chains Ascend gradually, through dense greasewood undergrowth, in clay soil.

12.00 Enter dense sage and rabbit brush and sandy loamy soil at E. foot of sand knoll which bears S. 25 E. and N. 25 W.; leave dense greasewood and clay soil.

14.70 Top of sand knoll about 10 ft. above the foot bears S. 20 E. and N. 20 W.

16.70 West foot of sand knoll, about 15 ft. below the top, bears S. 20 E. and N. 20 W.

39.90 Set a granite stone 18X10X6 ins., 12 ins., in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

51.70 Enter clay loamy soil, bears N. and S.; leave sandy-loamy soil. Enter dense greasewood undergrowth and clay soil, bear N. 10 W. and S. 10 E.; leave sage and rabbit brush and clay-loamy soil.

79.80 The cor. of secs. 3, 4, 9, and 10. Soil, loam, sand and clay; 1st. and 2nd. rate. No timber. Surface almost level, except in sand-hills: rolling. Dense sage, rabbit brush and greasewood undergrowth. 79.80 chs.

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

40.00 Set temp. 1/4 sec. cor.

79.23 Intersect the N. boundary of the Tp. 28 links E. of cor. of secs. 3, 4, 33, and 34, which is a granite stone 6X9X8 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. 1900 At April 28: 4 h 20 m p.m., l.m.t., I set off 37 49' N. on the lat. arc; 14 16' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34. Thence I run S. 0 14' E. on a true line bet. secs. 3 and 4. Gradual ascent over almost level land. In dense sage and greasewood undergrowth and clay-loamy soil.

39.23 Set a granite stone 14X12X5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and

Subdivisions of T.35 S.,R.16 W.--Continued.

Chains raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high
W. of cor.

79.23 The cor. of secs. 3, 4, 9, and 10.

Land almost level, gradually descending to N.

Soil clay-loam, 1st. and 2nd. rate. No timber.

Dense sage and greasewood undergrowth 79.23 chs.

April 28, 1900.

1900
April 30: At 8 h 30 m, a.m., l.m.t., I set off 37 43' N
on the lat. arc; 14 47' N. on the decl. arc; and deter-
mine a true meridian with the solar at the ^{standard} cor. of
secs. 32 and 33, on the S. bdy. of the Tp., which
is a granite stone 6X9X7 ins. above ground, firmly set,
and marked and witnessed as described by the Survey-
or General. Thence I run
N. 0 3' W. bet. secs 32 and 33.
Over almost level land, descending to N. In dense sage
and scattering greasewood undergrowth; and clay loamy soil

2.67 Road from Cedar City to Modena bears S. 65° E. & N. 65° W.

25.15 Enter dense greasewood undergrowth and clay soil
bears N. 35° E. and S. 30° W.; leave dense sage & loamy soil.

33.20 Old road bears S. W. and N. E.

40.00 Set a gray granite stone 14X12X4 ins., 10 ins., in the
ground, for 1/4 sec. cor., marked 1/4 on W. face; dug
pits 18X18X12 ins., N. and S. of stone 3 ft. dist., and
raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high,
W. of cor.

42.23 Trail bears N. 45° E. and S. 40° W.

55.75 Enter dense sage undergrowth and clay-loamy soil,
bear N. 35° E. and S. 25° W.; leave greasewood & clay soil.

74.50 Road to well from main road, bears N. 40° W. and S. 40° E.

80.00 Set a gray granite stone 17X10X8 ins., 12 ins. in the
ground, for cor. of secs. 28, 29, 32 and 33, marked with
1 notch on the S. and 4 notches on the E. edges; dug
pits 18X18X12 ins., in each sec. 5 1/2 ft. dist.; and
raised a mound of earth 4 ft. base, 2 ft. high W. of cor
Land almost level, gently descending to N.
Soil clay-loamy; 1st. and 2nd. rate. No timber.
Dense sage and greasewood undergrowth 80.00 chs.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains.

- East, on a random line bet. secs. 28 and 33.
- 40.00 Set temp. $1/4$ sec. cor.
- 80.06 Intersect N. and S. line 2 lks. S' of cor. of secs. 27, 28, 33 and 34.
- Thence I run
 $S.89^{\circ} 59'$ W. on a true line bet. secs. 28 and 33.
 Over nearly level land, gradually descending to N.;
 in clay soil; through dense greasewood undergrowth.
- 2.26 Enter dense sage undergrowth and clay loamy soil bears
 $S.30^{\circ}$ W. and $N.35^{\circ}$ E.; still in greasewood; leave clay
 soil.
- 40.03 Set a granite stone $16 \times 10 \times 6$ ins., 11 ins. in the ground
 for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18×18
 $\times 12$ ins., E. and W. of stone 3 ft. dist.; and raised a
 mound of earth, $3 1/2$ ft. base, $1 1/2$ ft. high, N. of cor.
- 44.06 Leave dense sage undergrowth and clay loamy soil;
 enter clay soil; still in greasewood; bears $N.30^{\circ}$ E.
 and $S.30^{\circ}$ W.
- 50.52 Road bears $N.45^{\circ}$ E. and $S.40^{\circ}$ W.
- 68.66 Trail bears $N.35^{\circ}$ E. and $S.35^{\circ}$ W.
- 70.40 Enter dense sage undergrowth and loamy soil bears N.
 25° E. and $S.25^{\circ}$ W.; still in greasewood; leave clay soil.
- 80.06 The cor. of secs. 28, 29, 32 and 33.
 Land almost level, gently sloping to N.
 Soil, clay, clay and sandy loam; 2nd. and 1st. rate.
 No timber.
 Dense sage and greasewood undergrowth on 80.06 chs.
-
- North, $0^{\circ} 3'$ W., bet. secs. 28 and 29
 Over almost level land gently sloping N.E.; in loamy
 sandy soil; through dense sage and greasewood under-
 growth.
- 3.00 A well with troughs and water tanks, bears W. about
 5.00 chs. (Supposed to belong to Thomas Thorley.)
- 30.00 Shoal Creek wash, about 30 ft. wide and 4 ft. deep, now
 dry, drains $N.35^{\circ}$ E.
 Enter dense rabbit brush bears N.E. and S.W.; still in
 sage; leave greasewood.
- 40.00 Set a trachyte stone $14 \times 10 \times 4$ ins., 10 ins. in the
 ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug

Subdivisions of T.35 S., R.16 W. - Continued.

Chains. pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a volcanic stone 16x9x6 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; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land almost level, broken with Shoal Creek wash, gently descending to N.E.

Soil, sandy loam; 1st. and 2nd. rate. No timber.

Dense sage or greasewood undergrowth on 80.00 chs.

40.00 N., 89° 59' E. on a random line bet. secs. 21 and 28. Set temp. 1/4 sec. cor.

80.10 Intersect N. and S. line 18 lks. N. of cor. of secs., 21, 22, 27 and 28.

Thence I run N. 89° 53' W. on a true line bet. secs. 21 and 28.

Over land almost level; in clay and loamy soil; through dense greasewood, sage and rabbit brush undergrowth.

10.12 Trail bears N.W. and S.E.

15.90 Road bears N. and S. 15° W.

40.05 Set a volcanic stone 17x10x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

80.10 The cor. of secs. 20, 21, 28 and 29.

Land almost level, gently descending to N.

Soil, clay and loamy; 2nd. and 1st. rate.

No timber.

Dense greasewood, sage and rabbit brush undergrowth on 80.10 chs.

April 30, 1900: At 11^h 57^m, a.m., l.m.t., I set off 140 49' N. on the decl. arc; at this cor.; the sky is suddenly overcast and solar observation to determine the latitude is impossible.

Heavy rain prevents further work this day.

April 30, 1900.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains. May 1, 1900: At the cor. of secs. 20, 21, 28 and 29, I set off $15^{\circ} 7' 30''$ N. on the decl. arc; and at 11^h 57^m, a.m., l.m.t., observe the sun on the meridian; the resulting latitude is $37^{\circ} 44' 40''$ N. North, $0^{\circ} 3' W.$, bet. secs. 20 and 21.

Over almost level land, gently descending to N. and N.W. in loamy and sandy soil; through dense sage and rabbit brush undergrowth.

40.00 Set a porphyry stone 18x18x6 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

51.25 Trail bears E. and W.

73.00 Leave dense undergrowth and enter scattering sage and wheat grass, bears E. and W.

80.00 Set a trachyte stone 16x13x10 ins., 11 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land almost level, gently descending to N. and N.W. Soil, loamy and sandy loam; 1st. rate. No timber.

Dense sage and rabbit brush undergrowth on 73.00 chs.

7/7

S. $89^{\circ} 55'$ E., on a random line bet. secs. 16 and 21.

40.00 Set temp. 1/4 sec. cor.

79.96 Intersect N. and S. line 4 lks. S. of cor. of secs. 15, 16 21 and 22.

Thence I run N. $89^{\circ} 55'$ W. on a true line bet. secs. 16 and 21.

Over nearly level land, gently sloping to N. and W.; through dense greasewood, sage and rabbit brush undergrowth; in clay, clay-loamy and sandy soil.

I.78 Road bears N. $10^{\circ} E.$ and S. $10^{\circ} W.$

23.46 Trail bears N.W. and S.E.

36.46 Trail bears N. $40^{\circ} W.$ and S. $40^{\circ} E.$

39.98 Set a volcanic stone 12x10x10 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high,

Subdivisions of T.35 S., R.16 W.-Continued.

Chains.	N.of cor.
45.50	Trail bears N.60° W.and S.60° E. . .
73.96	Leave dense undergrowth and enter scattering sage and wheat grass flat,bears N.and S.
79.96	The cor.of secs.16,17,20 and 21.
$\frac{73.96}{6.10}$	Land almost level,gradually descending to N.and W. Soil;clay,clay-loam and sandy;2nd.and 1st.rate. No timber. Dense greasewood,sage and rabbit brush undergrowth on 73.96 chs.
	<p>May 1,1900: At 3^h 57^m p.m.,l.m.t.,I set off 37°45'30" ✓ N.on the lat.arc; 15° 11' ✓ N.on the decl.arc;and determine a true meridian with the solar,at the cor. of secs. 16,17,20 and 21.</p> <p>Thence I run North,0° 3' W.bet.secs.16 and 17. Over almost level land,gradually descending to N.; through wheat grass and scattering sage undergrowth; in loamy soil.</p> <p>19.37 Enter dense sage undergrowth bears E.and W.;leave scattering undergrowth.</p> <p>20.97 Trail bears E.and W.</p> <p>40.00 Set a trachyte stone 14x12x3 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high W.of cor.</p> <p>80.00 Set a trachyte stone 17x10x8 ins.,12 ins.in the ground,for cor.of secs. 8,9,16 and 17,marked with 4 notches on S.and E.edges;dug pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and raised a mound of earth, 4 ft.base,2 ft.high,W.of cor.</p> <p>Land almost level,gently sloping to N.and W. Soil,loamy;1st.rate. No timber. Dense sage undergrowth on 60.63 chs.</p> <p>Note:-Continuous heavy rain prevented work during the forenoon of this day.</p>

May 1,1900.

29

Subdivisions of T.35 S., R.16 W.-Continued.

- Chains May 2: return to the meridian established April at standard cor.secs.35&36,T.35 S.,R.16 W. 0
 19, from Polaris. At 7 h a.m., l.m.t., I set off 37 43' N. on the lat.arc; 15.23' N. on the decln.arc; and test the adjustment of my solar, finding it gives the same meridian as before, and adjustments correct.
- 5.89.55 E: on a random line bet.secs.9 and 16. *from cor. of sec. 9*
- 40.00 set temp. 1/4 sec. cor.
- 79 .94 Intersect N. and S. line 4 links N. of cor. of secs. 9, 10, 15, and 16.
- Thence I run
 0
 N. 89.53 W on a true line bet.secs.9 and 16.
 Over almost level land, gently descending to N.
 In loamy clay soil, through dense sage undergrowth.
- 22.40 Enter clay soil, bears N. and S.; leave loamy soil.
- 32.15 Trail bears N. and S.
- 39.97 Set a granite stone 18X8X6 ins., 12 ins., in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor. Enter dense greasewood undergrowth bears N. and S.; leave sage undergrowth.
- 41.25 Enter dense sage undergrowth and loamy soil, bears N. and S.; leave greasewood undergrowth & clay soil.
- 79.94 The cor of secs. 8, 9, 16 and 17.
 Land almost level, gently descending to N. and W.
 Soil, loamy-clay and clay; 1st. rate. No timber.
 Dense sage and greasewood undergrowth 79.94 chs.
-
- 0
 N. 0.3 W. bet.secs.8 and 9.
 Over almost level land, descending to N. and N.W.
 Through dense sage undergrowth, loamy soil, and good wheat grass grazing.
- 35.00 Enter sandy soil bears E. and W.; leave loamy soil.
- 40.00 Set a trachyte stone 12X10X6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 80.00 Set a trachyte stone 14X14X7 ins., 10 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, marked with 5 notches on the S. and 4 notches on the E. edges; dug

Subdivisions of T.35 S., R.16 W. -Continued.

Chains	<p>pits 18X18X12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land almost level, gently descending to N. and N.W. soil, loamy; 1st rate. Good grazing.</p> <p>Dense sage undergrowth 20.00 chs.</p>
40.00	<p>S. 89° 53' E. on a random line bet. secs. 4 and 9.</p> <p>Set temp. 1/4 sec. cor.</p>
79.92	<p>Intersect N. and S. line 6 links N. of cor. of secs. 3, 4, 9 and 10.</p> <p>Thence I run</p> <p>N. 89° 50' W. on a true line bet. secs. 4 and 9.</p> <p>Over almost level land, gently sloping to N. & N.W. Through dense sage undergrowth and clay-loamy soil.</p>
39.96	<p>set an iron stone 12X10X6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.</p>
79.92	<p>The cor. of secs. 4, 5, 8 and 9.</p> <p>Land nearly level.</p> <p>Soil, clay-loam; 1st rate. No timber.</p> <p>Dense sage undergrowth 79.92 chs.</p> <p>1900 May 2: At this cor., set off 15° 25' 27" N. on the decln. arc; and, at 11 h 57 m, a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 47' 44" N.</p> <p>N. 0° 5' W. on a random line bet. secs. 4 and 5.</p>
40.00	<p>Set temp. 1/4 sec. cor.</p>
78.96	<p>Intersect the N. bndy. of the Tp. 41 links E. of the cor. of secs. 4, 5, 32 and 33, which is a granite stone 7X9X5 ins., above ground, firmly set, and marked and witnessed as described by the Surveyor General.</p> <p>Thence I run</p> <p>S. 21° E. on a true line bet. secs. 4 and 5.</p> <p>Gradually ascending over almost level ground, in loamy soil, through dense sage undergrowth.</p>
38.96	<p>Set an iron stone 15X8X5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18</p>

31

Subdivisions of T.35 S., R.16 W.-Continued.

Chains XII 2 Ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

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

Land almost level, gradually ascending to S.

Soil, loam, 1st. rate. No timber.

Dense sage undergrowth 78.96 chs.

1900

May 2: At 4h 30m, p.m., l.m.t., I set off '37 43' N. on the lat. arc; 15 29' N. on the decl. arc; and determine a true meridian with the solar at the ^{standard} cor. of secs 31 and 32 on the 7th. Standard Parallel South, which is a granite stone 5X7X5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

Thence I run
N. 0 3' W. bet. secs 31 and 32.

Over almost level land.

Through dense sage undergrowth and sandy, gravelly soil.

25.00 Enter dense ~~...~~ greasewood undergrowth and loamy soil bears E. and S. 40 W.; ^{sandy-gravelly soil} still in sage; leave ^{soil}

39.69 Road from Cedar City to Modena and Pioche bears S. 65 E. and N. 65 W.

40 .00 Set a volcanic stone 14X10X4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18 XII 2 ins., N. and S. of stone, 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

58.00 Enter sandy, loamy soil bears N. E. and S. W. leave ^{soil} loamy

80.00 Set a gray granite stone 16X8X6 ins., 11 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E. edges; dug pits 18 X18X12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land almost level, gradually descending to N. E. & N.

Soil, sandy and gravelly and loamy 3rd. and 1st. rate.
No timber.
Dense sage and greasewood undergrowth 80.00 chs.

May 2, 1900.

East on a random line bet. secs. 29 and 32.

40.00 Set temp. 1/4 sec. cor.

Subdivisions of T.35 S., R.16 W.-continued.

Chains.

- 80.14 Intersect N. and S. line 10 links N. of the cor. of secs 28, 29, 32 and 33.
Thence I run
N. 89° 56' W. on a true line bet. secs. 29 and 32.
Over almost level land, gradually descending to N. and N.E. In loamy soil, through dense sage undergrowth.
- 13.19 Old road to well and Pioche road bears N. 40° W. and S. 40° E.
5.00 Well, water tank and troughs bears N. about 3.00 chs.
15.76 Shoal Creek wash about 12 ft. wide and 4 ft. deep drains N. 35° E.
- 40.07 Set a trachyte stone 16X12X6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 64.14 Enter scattering sage undergrowth, bears N. and S.; leave dense sage scattering
71.64 Enter dense sage undergrowth bears N. and S.; leave scattering
80.14 The cor. of secs. 29, 30, 31 and 32.
Land almost level, descending to N.E., N. and N.W.
Soil, loam; 1st. rate. No timber.
Dense sage undergrowth 69.64 chs.
-
- 40.00 West on a random line bet. secs. 30 and 31.
Set temp. 1/4 sec. cor.
- 79.96 Intersect W. bdy. of the Tp. 2 links S. of cor. of secs. 25, 30, 31 and 36, which is a red granite stone 5X9X6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
Thence I run
S. 89° 59' E. on a true line bet. secs. 30 and 31.
Over almost level land.
Through dense sage and rabbit brush undergrowth and loamy soil.
- 5.46 Enter scattering sage undergrowth bears N. and S.
19.96 Sand knolls bear N. about 10. chs.
21.96 Enter dense sage and greasewood undergrowth bears N. and S.
39.96 Set a trachyte stone 12X10X6 ins., 8 ins., in the ground,

Subdivisions of T.35 S., R.16 W.-Continued.

Chains for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18X18X12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. Enter sandy, loamy soil bears N. and S.

79.96 The cor. of secs. 29, 30, 31 and 32. Land almost level, gently descending to N. and W. Soil, loamy and sandy-loamy; 1st. and 2nd. rate. No timber. Dense sage and greasewood undergrowth 63.46 chs.

21.00 N. C 3' W. bet. secs. 29 and 30. Gradually descend, through dense sage, greasewood and rabbit brush undergrowth, sandy loamy soil.

31 .00 Enter scattering underbrush and sandy soil, bears E. and W.; leave dense undergrowth & sandy loamy soil.

32.00 Foot of sand knoll bears N.E. and S.W.

33.50 Top of sand knoll, about 15 ft. above the foot, bears N. 20 E. and S. 20 W.

40.00 Foot of sand knolls, bears N. 25 E. and S. 25 W.; thence over low rolling sand hills.

72.00 Set a trachyte stone 16X12X3 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18X18X12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

74.00 Foot of range of sand knolls, which bears N. 75 W. about 40.00 chs., and S. 45 E. about 35.00 chs.

75.50 Top of sand knolls about 25 ft. high, bears N. 75 W. and S. 45 E.

80.00 Foot of sand knolls about 30 ft. below top, bears N. W. and S. E.; thence over level ground bet. sand knolls.

Set a porphyry stone 18X12X5 ins., 12 ins., in the ground, for cor. of secs. 19, 20, 29 & 30, marked with 2 notches on the S. and 5 notches on the E. edges; dug pits 18X18X12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land partly level, partly rolling hills. Soil loamy, and sandy, 1st. and 3rd. rate. No timber. Good grazing.

Dense sage, greasewood and rabbit brush undergrowth 21.00 chs.

63.46 / 16.5

21 / 59

Subdivisions of T.35 S., R.16 W. - Continued.

- Chains, S. 52 56' E, on a random line bet. secs. 20 and 29.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- May 3: At this temp. $\frac{1}{4}$ sec. cor. bet. secs. 20 and 29, I set off 15 43' N. on the decl. arc; and, at 11h 56.8m a.m., l.m.t. observe the sun on the meridian; the resulting lat. is 37 44' 40" N.
- 60.00 Intersect N. and S. line 10 links N. of cor. of secs. 20 21, 28 and 29.
- Thence I run
- N. 89 52' W, on a true line bet. secs. 20 and 29.
- Over almost level land; through dense sage and rabbit brush undergrowth and loamy soil.
- 40.00 Set a granite stone 16X10X6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dug pits 18X18 XI2 inc., E and W. of stone 3 ft. dist.; and raised a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high. N. of cor.
- 58.50 Enter rolling sand hills, sandy soil; ^{leave dense undergrowth & center} scattering sage and rabbit brush, bears N. 25 E. and S. 20 W.
- 80.00 The cor. of secs. 19, 20, 29 and 30.
- Surface
E. 58.50 chs. almost level, gradually sloping to N.
- Rolling sandhills on W. part. No timber.
- Soil, loamy and sandy; 1st. and 2nd. rate. Good grazing.
- Dense sage and rabbit brush undergrowth 58.50 chs.
-
- N. 59 59' W, on a random line bet. secs. 19 and 30.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.70 Intersect W. bdy. of Twp 16 links N. of cor. of secs. 19, 24, 28 and 30, which is a granite stone 5X12X5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
- Thence I run S. 89 54' E, on a true line bet. secs. 19 and 30.
- Over almost level land, in sandy, gravelly soil; through dense sage and rabbit brush undergrowth.
- 8.70 Leave gravelly soil bears N. and S.
- 12.10 Leave dense undergrowth.
- 12.10 Enter scattering sage undergrowth, bears N. 45 W. and S.
- 30.00 Foot of sand knolls, bears N. W. and S. E.
- 30.70 Top of sand knoll about 25 ft. above foot bears N. W. and S. E.
- 31.90 E. foot of sand knolls bear N. and S.

Subdivisions of T.35 S., R.16 W.--Continued.

Chains

39.70 Set a trachyte stone 14x10x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.70 The cor. of secs. 19, 20, 29 and 30.

1210
6760

Land partly level, partly rolling sandhills.
Soil, sandy and gravelly, and sandy 3rd. and 2nd. rate.
Good grazing. No timber.
Dense sage and rabbit brush undergrowth 12.10 chs.

1900
May 3: At 5 h p.m., l.m.t., I set off 37° 44' 40" N. on the lat. arc; 15.47' 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° 3' W. bet. secs. 19 and 20.
Over rolling sand hills.

39.00 Enter scattering squawberry and rabbit brush undergrowth, bears E. and W.

40.00 Set a trachyte stone 12x10x8 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a trachyte stone 12x10x8 ins., 8 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; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling sand hills.
Soil, sandy on the sand hills; heavy clay bet. the sand hills; 3rd. rate. No timber.
Good grazing.

May 3, 1900.

1900
May 4: At 8 h a.m., l.m.t., I set off 37° 45' 30" N. on the lat. arc; 15.58' N. on the decl. arc; and determine a true meridian at the cor. of secs. 17, 18, 19 and 20.

Thence I run
South, 89° 52' E. on a random line bet. secs. 17 and 20.
40.00 set temp. 1/4 sec. cor.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains
79.96

Intersect the N. and S. line 8 links S. of cor. of secs. 16, 17, 20, and 21.

Thence $\overset{0}{\underset{0}{\text{I}}}$ run
N. 89° 55' W. on a true line bet. secs. 17 and 20.

Over level land, gently descending to N. and N.W.
Through dense sage and rabbit brush undergrowth and in sandy-loamy soil.

9.00 Enter sandy soil and scattering undergrowth, bears N. and S.; leave dense undergrowth and sandy-loamy soil.

13.50 Enter rolling sand knolls bears N. and S. 20 W.

39.98 Set a trachyte stone 12x10x6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

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

9/6/96
Land level E. of sand knolls; in sand knolls rolling. Soil, sandy and loamy E. of sand knolls; clay bet. sand knolls and sandy on the knolls; 2nd. and 3rd. rate. Good grazing on the sand knolls. No timber. Dense undergrowth 9.00 chs.

$\overset{0}{\underset{0}{\text{S}}}$. 89° 54' W. on a random line bet. secs. 18 and 19.

40.00 Set temp. 1/4 sec. cor.

79.42 Intersect the W. boundary of the Tp. at 16 links N. of cor. of secs. 17, 18, 19 and 24, which is a charred cedar post 36x4x4 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

Thence $\overset{0}{\underset{0}{\text{I}}}$ run
N. 89° 47' E. on a true line bet. secs. 18 and 19.

Over almost level land, gradually descending to N. In dense sage and rabbit brush undergrowth, loamy soil.

29.40 Enter sandy soil bears N. and S.; leave loamy soil.

39.42 Set a trachyte stone 15x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

52.50 Leave dense sage and rabbit brush undergrowth, bears N. and S.; enter scattering sage and rabbit brush.

62.00 Enter rolling sand hills bears N. 15 E. and S. 35 W.

Subdivisions of T.35 S.,R.16 W.-Continued.

Chains.
79.42

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

52.50
26.92

Land,level on W.,rolling sand hills on E.

Soil,loamy,sandy and bet.sand knolls heavy clay;
1st.,and 3rd.rate. No timber.

Dense undergrowth 52.50 chs.

N.0 3' W.,bet.secs.17 and 18.

Over rolling sand hills;through scattering squaw
brush;in sandy soil.

31.00

Leave squaw-brush and sandy soil.
Enter dense sage and rabbit brush undergrowth and
sandy-loamy soil,bears N.80 E.and S.75 W.

40.00

Set a volcanic stone 16x10x6 ins.,11 ins.in the
ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug
pits 18x18x12 ins.,N.and S.of stone 3 ft.dist.;and
raised a mound of earth 3 1/2 ft.base,1 1/2 ft.high,
W.of cor.

May. 4:At this 1/4 sec.cor.,I set off 16 01' N.
on the decl.arc;and at 11^h 56^m 6 a.m.,l.m.t., observe
the sun on the meridian;the resulting lat.is 37 46' 30" N.

80.00

Set a trachyte stone 17x12x8 ins.,12 ins.,in the
ground,for cor.of secs.7,8,17 and 18,marked with 4
notches on the S.and 5 notches on the E.edges;dug
pits 18x18x12 ins.,in each sec.,5 1/2 ft.dist.;and
raised a mound of earth 4 ft.base,2 ft.high,W.of cor.
Land,rolling sand hills.

49-00
3100

soil,sandy on the sand hills,bet.the hills,heavy
clay;2nd.and 3rd.rate. No timber.

Dense undergrowth 49.00 chs.

40.00

S.89 55 E.on a random line bet.secs.8 and 17.
set temp.1/4 sec.cor.

80.04

Intersect N.and S.line 10 links N.of cor.of secs.
8,9,16 and 17.

Thence I run
N.89 51 W.on a true line bet.secs.8 and 17.

Over level land,gently descending to N.
In loamy soil,through dense sage undergrowth.

40.02

Set a granite stone 16x10x4 ins.,11 ins.,in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x
18x12 ins.,E.and W.of stone 3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.

subdivisions of T.35 S., R.16 W.-Continued.

Chains.

- 50.00 Enter sandy soil bears N. and S.; leave loamy soil.
- 70.00 Line runs bet. sand knolls.
- 80.04 The cor. of secs. 7, 8, 17 and 18.
Land mostly level N. and S. of line on W. 10 chs. rolling sand hills.
Soil, loamy and sandy; 1st. and 2nd. rate. No timber.
Dense undergrowth 80.04 chs.
-
- 40.00 S. 89 47' W. on a random line bet. secs. 7 and 18.
Set temp. 1/4 sec. cor.
- 79.20 Intersect W. boundary of Tp. 14 links N. of cor. of secs. 7, 12, 13 and 18, which is a charred cedar post, 36x4x4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor General.
Thence I run
N. 89 41' E. on a true line bet. secs. 7 and 18.
Over level land. Through sage dense sage undergrowth and in loamy soil.
- 29.00 Enter sandy soil bears N. and S.; leave loamy soil.
36. Enter rolling sand hills bears N. E. and S. W.
- 38.40. Leave rolling sand hills, bears N. 65' E. and S. 40' W.;
thence over level ground bet. ranges of sand hills.
- 39.20 Set a trachyte stone 12x8x6 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18 x 12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 64.00 Leave dense undergrowth bears N. and S.
- 72.00 Enter rolling sand hills bears N. E. and S. W.
- 79.20 The cor. of secs. 7, 8, 17 and 18.
Land level, and rolling sandhills
Soil, loamy and sandy; 1st. 2nd. and 3rd. rate. No timber.
Dense sage undergrowth 64.00 chs.

May 4, 1900.

1900 h
May 5: At 9⁰ a.m., l.m.t., I set off 37 47' " N. on the lat. arc; 16 16' " 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 3' W., bet. secs 7 and 8.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains. Over rolling sand hills, through dense squaw and rabbit
bit brush undergrowth, in sandy soil.

40.00 Set a granite stone 15x10x8 ins., 10 ins. in the ground,
for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18
x12 ins., N. and S. of stone 3 ft. dist.; and raised a
mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

40.50 Enter scattering undergrowth bears S.W. and N.E.

65.00 Leave rolling sandhills bear E. and W.

67.00 Enter dense sage undergrowth bears N. 70 E. and S. 70
W. Enter sandy-loamy soil.

80.00 Set a granite stone 17x12x6 ins., 12 ins. in the ground,
for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on
the S. and E. edges; dug pits 18x18x12 ins., in each
Sec., 5 1/2 ft. dist.; and raised a mound of earth 4
ft. base, 2 ft. high, W. of cor.

Land, rolling sand hills 65.00 chs.; almost level 15.
chs., descending to N. and N.W.

Soil, sandy and sandy-loamy; 3rd. and 2nd. rate.
Dense undergrowth 67.00 chs.

61
13

S. 89 51 E. on a random line bet. secs. 5 and 8.

40.00 Set temp. 1/4 sec. cor.

80.06 Intersect N. and S. line 2 links N. of 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 level land, gently sloping to N.

Through dense sage and greasewood undergrowth, in
loamy soil.

35.00 Leave dense undergrowth.
Enter rolling sand hills and scattering rabbit brush
and squaw berry brush undergrowth bear N.E. & S.W.

40.03 Set a granite stone 15x10x6 ins., 10 ins. in the ground,
for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18
x12 ins., E&W. of stone 3 ft. dist.; and raised a mound
of earth 3 1/2 ft., base 1 1/2 ft. high, N. of cor.

75.00 Leave sand knolls and enter dense sage undergrowth
bear N. 35 E. and S. 35 W.; leave scattering undergrowth.

80.06 The cor. of secs. 5, 6, 7 and 8.

Land level, and rolling sand hills.

Soil, loamy and sandy; 1st. and 2nd. rate. No timber.
Dense undergrowth 40.00 chs.

4070
4006

Subdivisions of T.35 S., R.16 W.-Continued.

1900
 Chains: May 5: At this cor. I set off $16 \overset{0}{18} \overset{1}{\prime}$ N. on the decl. arc; and at $11 \overset{n}{56} \overset{m}{.6}$ a.m. the sky is overcast and I am unable to observe the sun on the meridian and obtain the correct reading of the lat. arc.

- S. $89 \overset{0}{41}$ W. on a random line bet. secs. 6 and 7.
- 40.00 Set temp. $1/4$ sec. cor.
- 79.02 Intersect the W. boundary of the Tp. 5 links N. of cor. of secs. 1, 6, 7 and 12, which is a charred cedar post $36 \times 4 \times 4$ ins., firmly set, and marked and witnessed as described by the Surveyor General.
- Thence I run
 $N. 89 \overset{0}{39}$ E. on a true line bet. secs. 6 and 7.
- Over almost level land; through dense sage undergrowth; in loamy soil.
- 39.02 set a granite stone $16 \times 6 \times 6$ ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone; ^{3 ft. dist} and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.
- 79.02 The cor. of secs. 5, 6, 7 and 8.
- Land almost level, gently descending to N. and N.E.
 Soil, loamy; 1st. rate. No timber.
 Dense sage undergrowth 79.02 chs.

- $N. 0 \overset{0}{3}$ W. on a random line bet. secs. 5 and 6.
- 40.00 Set temp. $1/4$ sec. cor.
- 79.00 Intersect N. boundary of the Tp. 23 links E. of cor. of secs. 5, 6, 31 and 32, which is a granite stone $5 \times 9 \times 5$ in ins. above ground, marked and witnessed as described by the Surveyor General.
- Thence, I run
 $S. 0 \overset{0}{13}$ E. on a true line bet. secs. 5 and 6.
- Over level land, gently sloping to N.
 Through dense greasewood undergrowth and clay soil.
- 39.00 Set a granite stone $15 \times 8 \times 4$ ins., 10 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits $18 \times 18 \times 12$ ins., N. and S. of stone, 3 ft. dist., and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of cor.
- 50.00 Enter dense sage undergrowth and loamy soil, bear N.E. and S.W.
- 79.00 The cor. of secs. 5, 6, 7 and 8.

Subdivisions of T.35 S., R.16 W.-Continued.

Chains. Land almost level, gradually descending to N.
 Soil, clay and loam; 2nd. and 1st. rate.
 No timber.
 Dense greasewood and sage undergrowth on 79.00 chs.
 May 5, 1900.

Knowing from survey already made that the boundary of section 6 will not close, I retrace N.bdy. of same as follows:

May 7, 1900: At 8^h a.m., l.m.t., I set off 37° 49' N., on the lat. arc; 16° 49' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of Tps. 34 and 35 S., Rs. 16 and 17 W., which is a granite stone 6x12x9 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run S. 89° 58' E. on retracement line bet. secs. 6 and 31 on N.bdy. of Tp.

Over nearly level land; in sandy, clay and loamy soil; through dense sage undergrowth.

38.74 Intersect the 1/4 sec. ~~cor~~ 23 lks. N. of the 1/4 cor. of secs. 6 and 31, which is a charred cedar post 36x4x3 ins. above ground, firmly set, marked and witnessed as described by the Surveyor general.

78.86 Intersect N. and S. line 45 lks. N. of cor. of secs. 5, 6, 31 and 32, heretofore described.

The course of this line is therefore S. 89° 39' E. Land nearly level, gently sloping N. and W.

Soil, sandy, clay and loam; 2nd. and 1st. rate.

No timber.

Dense sage brush undergrowth on 78.86 chs.

May 7, 1900.

GENERAL DESCRIPTION.

This township lies in the Escalante Desert which is a part of the Great American Desert in almost level plain with rolling sand knolls extending from N. to S. through the western part of the township. There are also small ranges of sand knolls in East central, North Eastern and North Central parts of the Township.

The soil in the township is generally rich, consisting of clay and sandy soil, and clay and sandy loams, slightly intermixed with gravel in the N. central parts of the township. The ground is covered with an abundance of greasewood, sage and rabbit brush undergrowth, growing very large in West half of the township, especially; bunch grass and other native grasses and short shrubbery abounds in all parts of the township, being especially prolific in the sand knolls.

There is no timber of any kind in the township; and no building stones, limestone, quarries, or mineral deposits of any kind are visible.

No rivers, streams, springs, lakes or other bodies of water are in the township. There are three storm water ponds in secs. 21, 22 and 23 generally filled with water from rains and melting snows during the stormy seasons, which afford watering places during a part of the season for bands of wild horses roaming over the desert, and for horned stock and sheep grazing in this and adjoining townships. Shoal Creek wash which enters the Valley at the head of the Desert in Tp. 37 S., R. 17 W., enters at the South Western part of this township and spreads in sec. 28. During seasons of continuous heavy rains and heavy deposits of snow in the mountains this wash is filled with storm water, but for the past several years of great drouth it has generally been dry.

There are no permanent settlers having homes in this Township. Thomas Thorley of Cedar City has a surface well, about 30 ft. deep to water, with water tanks and watering troughs costing about \$150.00 in Section 29. William Redd of New Harmony has a surface

Subdivisions of T.35 S., R.16 W.-Continued.

well, about 25 ft. to water, with windlass, pulleys, water tanks and watering troughs, corralls and shearing pens of the value of about \$500.00, in section 10. These wells are used for watering sheep grazed in this and the adjoining townships.

The main road from Cedar City and Iron City to Modena, Desert Springs and Pioche runs across the South Western part of the Township.

Mayhew H. Dalley
U.S. Deputy Surveyor.

sol. d/c

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Galley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivisions of Twp. 35 S. R. 16 W. of the Salt Lake Base & Meridian showing the respective capacities in which they acted:

- Max W. Woodbury, Chainman.
- Robert A. Thorley, Chainman.
- David Dix, Moundman.
- Thomas Urie, Moundman.
- David Dix, Axman.
- Thomas Urie, Axman.
- William Macfarlane, Flagman.

FINAL OATH OF ASSISTANTS.

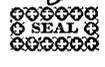
We hereby certify that we assisted Mayhew H. Galley, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Township No. 35 South, of Range No. 16 West

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

- Max W. Woodbury, Chainman.
- Robert A. Thorley, Chainman.
- David Dix, Moundman.
- Thomas Urie, Moundman.
- David Dix, Axman.
- Thomas Urie, Axman.
- William Macfarlane, Flagman.

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

Senora C. Galley
Notary Public



My Commission Expires
March 20th, 1903

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, 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 23rd day of January, 1899, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of Subdivisions of Township No. 35 South of Range No. 16 West

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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley and sworn to before me }
this 3rd day of October, 1900



Jacob B. Blair
Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Walt D. Kelly, Advt. April 17, 1902, 18.

The foregoing field notes of the survey of The subdivisions of Township No. 35 South Range No. 16 West of the Salt Lake Base Meridian, Utah

executed by Mayhew H. Dalley, under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward Huderley
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

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1-070.

W.

BOOK A-286

FIELD NOTES

OF THE SURVEY OF THE

Pine Valley Guide Meridian

through

Township No. 34 South
Between Ranges Nos. 15 and 16 West.

of the Salt Lake Base and Meridian,
in the State of Utah.

AS SURVEYED BY

Mayhew H. Galley, United States Deputy Surveyor,

Under his Contract No. 224, dated January 23, 1899

Re Survey commenced May 14, 1900.

Re Survey completed May 15, 1900.

6-101

P.M. - height

20 50
25 79 - 88 ✓
3 - 41 ✓

change

NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury, Chairman

David Dix, Chain

Robert A. Thorley, Ch

William Macfarlane, Chairman

Thomas Urie, Moundman

Thomas Urie, Axman

Hillman Dalley, Flagman

BOOK A-286

INDEX DIAGRAM.

Township 34 S., Ranges 15 & 16 W.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

Magafarlane
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 Pine Valley Guide Meridian, through Tps. No. 34 South, Between Rs. 15 & 16 W. of the Salt Lake Base & Meridian. *etc.*

Max W. Woodbury, Chainman

David Dix, Chainman

Subscribed and sworn to before me this *16th* day of *April*, 1900.

Robert A. Thorley, Chainman

William Magafarlane, Chainman

Senora C. Dalley

Notary P



My Commission Expires March 20th, 1903

We, *I, Thomas Urie* and

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of ^{our} skill and ability, in the survey of *Pine Valley Guide Meridian, through Tps. 34 S. bet. R. 15 & 16 W. of the Salt Lake Base & Meridian. etc.*

Thomas Urie, Moundman

Subscribed and sworn to before me this *16th* day of *April*, 1900.

Senora C. Dalley

Notary Public.



My Commission Expires March 20th, 1903

We, *I, Thomas Urie* and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of ^{our} skill and ability, in the survey of *Pine Valley Guide Meridian, through Tps. No. 34 S., between Rs. 15 & 16 W. of the Salt Lake Base & Meridian. etc.*

Thomas Urie, Axman

Subscribed and sworn to before me this *16th* day of *April*, 1900.

Senora C. Dalley

Notary Public.



My Commission Expires March 20th, 1903

I, *Hillman Dalley*

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 *Pine Valley Guide Meridian, through Tps. No. 34 S., bet. Rs. 15 & 16 W. of the Salt Lake Base & Meridian. etc.*

Hillman Dalley, Flagman

Subscribed and sworn to before me this *16th* day of *April*, 1900.

Senora C. Dalley

Notary Public.



My Commission Expires March 20th, 1903

Resurvey of E. bdy. of T. 34 S., R. 16 W. (Pine Valley Guide Mer.)

Chains. Resurvey commenced May 14, 1900, and executed with a W. & L. E. Gurley Light Mountain solar Transit for description of which see notes of Subdivision 235 S. 16 W. Book V.

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 the cor. of Tps. 34 and 35 S., Rs. 15 and 16 W., which is a granite stone 8x10x8 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General; approximate lat. $37^{\circ} 49' N.$; longitude $113^{\circ} 33' W.$; I set off $37^{\circ} 49' N.$ on the lat. arc; $18^{\circ} 43' N.$ on the decln. arc; and, at 4 p.m., l.m.t., determine with the solar a true meridian and mark a point thereof, on a wooden plug set firmly in the ground, 5.00 chs. N. of the cor.

May 14, 1900.

May 15, 1900 At $3^{\text{h}} 55^{\text{m}}$ a.m., l.m.t., I observe Polaris at Eastern Elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined, on a wooden plug driven in the ground, 5.00 chs. N. of my station.

At $6^{\text{h}} 30^{\text{m}}$ a.m., l.m.t., I lay off the azimuth of Polaris, 133° to the west, and mark the True Meridian thus determined, by cutting a small cross in the wooden plug set May 14, on which the true meridian falls about 0.12 ins. east of the mark determined by the solar.

At 7^{h} a.m. l.m.t., I set off $37^{\circ} 49' N.$ on the lat. arc $18^{\circ} 52' N.$ on the decln. arc; and mark a point in the true meridian determined with the solar, by a small groove on the wooden plug already set 5.00 chs. N. of my station; this mark falls about 0.16 ins. east of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for true meridians, respectively about $0' 6''$ west and $0' 8''$ east of the meridian es-

Resurvey of E.bdy. of T.34 S., R.16 W. (Pine Valley Guide

Chains established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 7^h a.m., is N.15° 29' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 15° 25'

Preliminary to commencing the subdivisions of this township, I run north on a blank line, on the Pine Valley Guide Meridian and E.bdy. of Sec. 36; at 40.00 chs. I find no trace of the 1/4 sec. cor.; and at 80.00 chs., I find no trace of the cor. of secs. 25, 30, 31 and 36; therefore, I continue my line north making diligent search for corners, but find none on the E. bdy. of the Tp. At 5 miles 79.88 chs., intersect E. and W. line, 3.41 chs. E. of the cor. of Tps. 33 and 34 S., Rs. 15 and 16 W., and as these Tps. have not been subdivided, I resurvey the Range line bet. them or Pine Valley Guide Meridian, as follows:

I begin at the cor. of Tps. 34 and 35 S., Rs. 15 and 16 W., already described.

Thence I run

North, on the Pine Valley Guide Meridian and E.bdy. of Sec. 36.

Over almost level land; through dense sage and grease wood undergrowth; in clay soil.

- 7.00 Enter sandy soil bears E. and W. Leave clay soil.
- 10.75 Enter clay soil bears E. and W.; leave sandy soil.
- 28.40 Road from Cedar City to Modena bears S. 85° E. & N. 85° W.
- 28.87 Road from Cedar City to Modena bears S. 85° E. & N. 85° W.
- 29.36 Road from Cedar City to Modena bears S. 85° E. & N. 85° W.
- 30.00 Leave sage & greasewood undergrowth bears E. and W.
- Difference between measurements of 40.00 chs., by two sets of chainmen, is 2 links; position of middle point
- By 1st. set, 40.01 chs.
- By 2nd. set, 39.99 chs.; the mean of which is
- 40.00 Set a porphyry stone 17x6x6 ins., 12 ins., in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18 x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 70.25 Enter sandy soil bears N.W. and S.E.; leave clay soil.

Resurvey of E.bdy. of T.34 S., R.16 W. (Pine Valley Guide Mer.)

Chains.

78.00 Sand hollow about 75 ft. wide and 8 ft. deep; heads S.W. about 5.00 chs., and bears N.E. about 8.00 chs.

Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 2 links; position of middle point

By 1st. set, 80.01 chs.

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

80.00 Set a granite stone 16x10x8 ins., 11 ins. in the ground for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land almost level, gradually descending to N. & N.E. Soil, clay and sandy; 2nd. rate. No timber. Dense greasewood and sage undergrowth 80.00 chs.

North, bet. secs. 25 and 30.

Gradually descend over almost level land.

Through dense greasewood undergrowth; in sandy soil.

25.00 Enter sandy-clay soil bears E. and W.; leave sandy soil.

30.00 Enter sandy loam bears E. and W.; leave clay-sandy soil.

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

By 1st. set, 40.01 chs.

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

40.00 Set a granite stone 16x10x4 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

60.00 Enter clay-loamy soil bears E. and W.; leave sandy loam.

Diff. bet. measurements, of 80.00 chs., by two sets of chainmen, is 0 links; position of middle point is

By 1st. set, 80.00 chs.

By 2nd. set, 80.00 chs.; the mean of which is

80.00 Set a granite stone 17x11x5 ins., 12 ins., in the ground for cor. of secs. 19, 24, 25 and 30, marked with 2 notches on the S. and 4 notches on the N. edges; dug pits 18x18x12 ins., in each sec.; 5 1/2 ft. dist.; and

Resurvey of the E. bdy. of T. 34 S., R. 16 W. (Pine Valley Gut)

Chains raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land almost level, gently descending to N. and E.

Soil, sandy, and sandy-clay loam; 3rd. and 2nd. rate.

Dense greasewood undergrowth 80.00 chs. No timber.

May 18, 1900: I set 18 54' N. on the decln. arc; and at 11^h
56^m a.m., l.m.t., observe the sun on the meridian; the
resulting lat. is 37 51' N.

North, bet. secs. 19 and 24.

Over almost level land, gently descending to N. and N.
E.; through dense greasewood undergrowth and loamy-
clay soil.

8.00 Enter clay soil bears N.E. and S.W.; leave loamy soil.

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

By 1st. set, 40.01 chs.

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

40.00 Set a lime-stone 15x13x7 ins.; 10 ins. in the ground
for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18
x12 ins., N. and S. of stone, 3 ft. dist.; and raised a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

58.00 Enter dense sage undergrowth and sandy soil, bears
N.E. and S.W.; leave greasewood and clay soil.

65.00 Enter dense greasewood undergrowth and scattering
sage and heavy clay soil bears N.E. and S.W.

Difference bet. measurements of 80.00 chs. by two
sets of chainmen, is 4 links; position of middle point
is By 1st. set, 80.02 chs.

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

80.00 Set a granite stone 16x12x6 ins., 11 ins. in the ground
for cor. of secs. 13, 18, 19 and 24, marked with 3 notch-
es on N. and S. edges; dug pits 18x18x12 ins., in each
sec., 5 1/2 ft. dist.; and raised a mound of earth 4
ft. base, 2 ft. high, W. of cor.

Land almost level, slightly descending to N. and N.E.

Soil, clay, clay-loam and sandy; 2nd. and 3rd. rate. No timbe.

Dense greasewood and sage undergrowth 80.00 chs.

North, bet. secs. 13 and 18.

Over nearly level land; gradually descend.

Resurvey of the E. bdy. of T. 34 S., R. 16 W. (Pine Valley Guide Me.)

Chains. Through dense greasewood undergrowth and clay soil.
Difference bet. measurements of 40.00 chs., by two sets
sets of chainmen is 2 links; position of middle
point

By 1st. set, 40.01 chs.

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

40.00 Set a granite stone 16x9x4 ins., 11 ins. in the ground
for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18
x12 ins., N. and S. of stone 3 ft. dist.; and raised a
mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
Difference bet. measurements of 80.00 chs., by two
sets of chainmen is 6 links; position of middle point

By 1st. set, 80.03 chs.

By 2nd. set, 79.97 chs.; the mean of which is

80.00 Set a granite stone 18x11x5 ins., 12 ins. in the ground
for cor. of secs. 7, 12, 13 and 18, marked with 4 notches
on the S. and 2 notches on the N. edges; dug pits 18x18
x12 ins., in each sec., 5 1/2 ft. dist.; and raised a
mound of earth, 4 ft. base, 2 ft. high, W. of cor.
Land almost level, gradually descending to N. and N.E.
Soil, heavy clay with indications of alkali; 2nd. and
3rd. rate. No timber.
Dense sage or greasewood undergrowth on 80.00 chs.

North, bet. secs. 7 and 12.

Over almost level land; gradually descending.

Through dense greasewood undergrowth; in clay soil.

Difference bet. measurements of 40.00 chs. by two sets
of chainmen is 2 links; position of middle point

By 1st. set, 40.01 chs.

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

40.00 Set a granite stone 15x8x6 ins., 10 ins. in the ground
for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18
x12 ins., N. and S. of stone, 3 ft. dist.; and raised a
mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
Difference between measurements of 80.00 chs., by two
sets of chainmen, is 4 links; position of middle
point

By 1st. set, 80.02 chs.

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

80.00 Set a quartzite stone 14x8x6 ins., 10 ins. in the ground

Resurvey of the E.bdy. of T.34 S., R.16 W. (Pine Valley Gu

Chains for cor. of secs. 1, 6, 7, and 12, marked with 5 notches on the S. and I notch on the N. edges; dug pits 18x18 x12 ins., N. and S. of stone in each sec., 5 1/2 ft. dist. and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land almost level, gradually descending to N. and N.E. Soil heavy clay, with indications of alkali; 3rd. and 2nd. rate. No timber.

Dense greasewood undergrowth 80.00 chs.

North, bet. secs. 1 and 6.

Over nearly level land; gradually descend.

Through dense greasewood undergrowth, in clay soil.

5.30 Trail bears N. 35° E. and S. 35° W.

10.01 Trail bears N. 10° E. and S. 10° W.

33.60 Enter tall dense sage undergrowth and sandy soil, bears N. 45° E. and S. 40° W.

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

By 1st set, 40.01 chs.

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

40.00 Set a granite stone 12x11x10 ins., 8 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18 x 12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

47.25 Enter dense greasewood undergrowth and clay soil, bears N. 75° E. and S. 45° W.; leave sage undergrowth & sandy soil.

58.00 Trail bears N. 30° E. and S. 30° W.

74.30 Trail bears N.E. and S.W.

77.00 Enter dense sage and rabbit brush undergrowth and sandy soil, bears N. 20° E. and S. 70° W.

Difference between measurements of 79.88 chs., by two sets of chainmen, is 4 links; position of middle point

By 1st set, 79.90 chs.

By 2nd set, 79.86 chs.; the mean of which is

79.88 Intersect the N. bdy. of the Tp. at 3.41 chs. ^{589° 57'} E. of the old cor. to Tps. 33 and 34 S., Rs. 15 and 16 W., which

Resurvey of the E.bdy.of T.34 S.,R.16 W.(Pine Valley Guide Mer.)

Chains. is a red sandstone 6x12x8 ins. above ground, marked a and witnessed as described by the Surveyor General. At the point of intersection I set a granite stone 19x12x6 ins., 15 ins., in the ground, for closing cor. of Tps. 34 S., Rs. 15 and 16 W., marked C.C. 34 S. with., 6 grooves on S., 15 W. and 6 grooves on E., and 16 W. with 6 grooves on W. faces; dug pits 30x24x12 ins. crosswise on each line E. and W. 4 ft., and S. of stone 8 ft. dist.; and raised a mound of earth, 5 ft. base, 2 1/2 ft. high, S. of cor.

I destroy the marks on the old Tp. cor. pertaining to Tp. 34 S.

Land almost level, gently sloping to N. and N.E.

No timber.

Soil, clay and sandy; 2nd. rate.

Dense greasewood, sage and rabbit brush undergrowth.

79.88 chs.

May 15, 1900.

Subdivisions of T.34 S., R.16 W. - Continued.

BOUNDARIES OF T.34 S., R.16 W.

Latitudes, departures and closing errors.

Line designated.	True bearing.	Dis- tance	Latitudes		Depart- ures, -	
			N.	S.	E.	W.
S. bdy T. 34 S. R. 16 W. along		chs.	Chs.	Chs.	Chs.	Chs.
Secs. 36, 35, 34, 33, 32	N 89° 58' W.	400.00	.23			
S. bdy T. 34 S. R. 16 W. along						
Sec 31.	N 89° 39' W.	78.86	48			478.86
W. bdy T. 34 S. R. 16 W.:						
Bet Secs 31 & 36	N 0° 16' W.	80.22				.23
" " 25-30	N 0° 17' W.	80.12				.40
" " 19-24	N 0° 14' W.	80.16				.30
" " 13-18	N 0° 9' W.	79.96				.21
" " 7-12	N 0° 12' W.	79.94				.28
" " 1-6	N 0° 20' W.	78.20	478.60			.46
N. bdy T. 34 S. R. 16 W. N 89° 58' E		477.64	.28		481.05	
Closing Line S 84° 57' E		341				
E. bdy T. 34 S. R. 16 W. SOUTH		479.88		479.88		
PINE VALLEY GUIDE M.)						
Convergence						.57
Totals.			479.59	479.88	481.62	480.77
				479.59	480.77	
Error in lat				.29		
Error in dep.					.83	

GENERAL DESCRIPTION.

For general description see General Description at the close of notes of the subdivisions of T.34 S., R.16 W., and T.34 S., R.16 W.

Mayhew H. Galley
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 Mayhew H. Dalley

....., 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 Pine Valley

Guide Meridian, through Tps. No. 34 S., between Ranges No. 15 and 16 W.

The Salt Lake Base & Meridian
showing the respective capacities in which they acted:

- Max W. Woodbury Chainman. David Dix Chainman.
- Robert A. Thorley Chainman. William Macfarlane Chainman.
- Thomas Urie Moundman.
- Thomas Urie Moundman.
- Thomas Urie Axman.
- Thomas Urie Axman.
- Hillman Dalley Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley

....., United States Deputy Surveyor, in ^{re}surveying all those parts or portions of the Pine Valley Guide Meridian, through Tps. 34 S., bet. Ranges Nos. 15 and 16 W., Salt Lake Base and Meridian.

..... of the Salt Lake Base and meridian, State Utah of which are represented

in the foregoing field notes as having been ^{re}surveyed by him and under his direction; and that said ^{re}survey has been in all respects, to the best of our knowledge and belief, well and faithfully ^{re}surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Utah.

- Robert A. Thorley Chainman. Max W. Woodbury Chainman.
- William Macfarlane Chainman. Thomas Urie Moundman.
- Thomas Urie Moundman.
- Thomas Urie Axman.
- Thomas Urie Axman.
- Hillman Dalley Flagman.

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

Senora C. Dalley
Notary Public.



My Commission Expires
March 29th, 1903

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, 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 23rd day of January, 1899, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Pine Valley Guide Meridian, through Townships No. 34 South, between Ranges 15 and 16 West,

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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 3rd day of October, 1899.



Jacob B. Blair
Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1902 1899

The foregoing field notes of the survey of the Pine Valley Guide Meridian of 34 South between Ranges 15 & 16 West of the Salt Lake Base & Meridian, Utah

executed by Mayhew H. Dalley under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Henderson
United States Surveyor Gen.

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

United States Surveyor Gen.

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4-679.

X.

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BOOK A-286

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

of

TOWNSHIP NO. 34 SOUTH, RANGE 16 WEST,

Of the SALT LAKE BASE AND Meridian,
in the
STATE OF UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 224, dated January 25rd., 1899.

Survey commenced May 16, 1900, 189

Survey completed May 17, 1900, 189

6-151

N. P. Day - High m. ch. 64 - 5-77-64 ✓

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NAMES AND DUTIES OF ASSISTANTS.

Max W. Woodbury,	Chainman.
Robert A. Thorley,	Chainman.
David Dix,	Moundman.
Thomas Urie,	Moundman.
David Dix,	Axman.
Thomas Urie,	Axman.
William Macfarlane,	Flagman.

6-161

Volume
#
R0286

BOOK A-286

INDEX DIAGRAM.

Township No. 54 South , Range No. 16 West.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Max W. Woodbury and Robert A. Thorley

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; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey the North Boundary of Township No. 34 South, Range No. 16 W. of the Salt Lake Base & Meridian, Utah.

Salt Lake Base & Meridian, Utah

Max W. Woodbury, Chainman
Robert A. Thorley, Chainman

Subscribed and sworn to before me this 16th.
day of April, 1900, 189



My Commission Expires
March 20th, 1903

Senora C. Dalley
Notary Public.

WE, David Dix and Thomas Urie

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 the North Boundary of Township No. 34 South, Range No. 16 West. of the Salt Lake Base & Meridian, Utah.

Salt Lake Base & Meridian, Utah

David Dix, Moundman
Thomas Urie, Moundman

Subscribed and sworn to before me this 16th.
day of April, 1900, 189



My Commission Expires
March 20th, 1903

Senora C. Dalley
Notary Public.

WE, David Dix and Thomas Urie

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 the North Boundary of Township No. 34 South, Range No. 16 West. of the Salt Lake Base & Meridian, Utah.

Salt Lake Base & Meridian, Utah

David Dix, Axman
Thomas Urie, Axman

Subscribed and sworn to before me this 16th.
day of April, 1900, 189



My Commission Expires
March 20th, 1903

Senora C. Dalley
Notary Public.

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

the survey of the North Boundary of Township No. 34 South, Range No. 16 West. of the Salt Lake Base & Meridian, Utah.

Salt Lake Base & Meridian, Utah

William Macfarlane, Flagman

Subscribed and sworn to before me this 16th.
day of April, 1900, 189



My Commission Expires
March 20th, 1903

Senora C. Dalley
Notary Public.

Resurvey of the N.bdy.of T.34 S.,R.16 W.

Chains.

Resurvey commenced May 16,1900,and executed with a W.and L.E.Gurley Light Mountain solar Transit for description of which see notes of *subdivision T35-SR16W* Book V .

For a complete test of the solar apparatus see notes of resurvey of Pine Valley Guide Meridian through Tps.34 S.,bet.Rs.15 and 16 W.,book W .

Having found the East boundary of the Tp.to be defective in alinement and that many of the corners have been obliterated,I deemed it advisable to test the measurement and alinement of the N.bdy.of Tp. as follows:

I begin at the cor.of Tps.33 and 34 S.,Rs.15 and 16 W.,as re-established by me for cor.of Tps.33 S., R.15 and 16 W.,and described in notes of resurvey of Pine Valley Guide Meridian,through T.34 S.,bet.Rs. 15 and 16 W.

May 16,1900: At this cor.I set off $37^{\circ}54'$ N.on the lat.arc; $19^{\circ}6'$ N. on the decln.arc;and,at 8^h a.m.,l.m.t.,determine with the solar a true meridian.

Thence I run

North, $89^{\circ}41'$ W.on a blank line,bet.secs.I and 36., at 40.00 chs. I find no trace of old 1/4 sec.cor.; and at 80.00 chs.the cor.of secs.1,2,35 and 36 bears $S.14^{\circ} E.$,1.85 chs.dist;therefore,I continue my line, W.,find no part of the N.bdy.in alinement,and that many of the corners are nearly obliterated.At 5 miles 77.64 chs.,intersect N.and S.line 2.92 chs.N. of the cor.of Tps.33 and 34 S.,Rs.16 and 17 W.,which is a granite stone 7x6x4 ins.above ground,marked and witnessed as described by the Surveyor General, and as these Tps.have not been subdivided,I re-survey the Tp.line bet.Tps.33 and 34 S.,R.16 W.,as follows:

May 16,1900:At the cor.of Tps.33 and 34 S.,Rs.16 and 17 W.,heretofore described,I set off $37^{\circ}54'$ N. on the lat.arc; $19^{\circ}11'$ N.on the decl.arc;and,at 4^h p.m.,l.m.t.,determine with the solar a true meridian.

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Resurvey of N.bdy.of T.34 S.,R.16 W.-Continued.

- Chains. Thence I run
N.89° 58' E.on a true line on S.bdy.of sec.31.
Over nearly level land;through dense greasewood
undergrowth;in heavy clay soil.
- 34.50 Trail bears S.W.and N.E.
- 37.64 Set an iron stone 10x10x 6 ins.,7 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18
x12 ins. ,E.and W.of stone ,3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
I find no other indications.of the old 1/4 sec.cor.
except traces of pits,S.5° E.,5.18 chs.dist.,which
I destroy.
- 58.75 Trail bears N.40° W.and S.40° E.
- 77.64 Set a trachyte stone 16x12x10 ins.,11 ins.in the
ground,for cor.of secs.31 and 32,T.33 S.,R.16 W.,
marked with 5 notches on the E.and 1 notch on the W.
edges;dug pits 24x24x12 ins.,in each sec.,6 ft.dist.,
and raised a mound of earth,4 ft.base,2 ft.high,N.
of cor.
- From this point traces of the pits and mound of the
old cor.of secs.5,6,31 and 32,with decayed stake in
E.pit,bears S.10°20' E.,4.42 chs.dist. I destroy
old stake and all traces of the pits and mound.
Land nearly level,gently sloping N.and W.
Soil,heavy clay,with indications of alkali;2nd.rate.
Dense greasewood undergrowth on 77.64 chs.No timber.
May 16,1900.

May 17,1900:At 8^h a.m.,l.m.t.,I set off 37° 54' N.on
the lat.arc;19° 20' N.on the decl.arc;and determine
a true meridian with the solar,at the cor.of secs.
31 and 32,heretofore described.

Thence I run

N.89° 58' E.on the S.bdy.of sec.32.

Over nearly level land;in clay and sandy soil;through
dense greasewood undergrowth.

- 40.00 Set an iron stone 10x10x9 ins.,7 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x
12 ins.,E.and W.of stone,3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
The only trace I find of the old 1/4 sec.cor.is part-

Resurvey of N.bdy. of T.34 S., R.16 W. - Continued.

Chains.	ly obliterated pits and mound with rotted stake in E. pit, which bears S.12° 18' E., 3.97 chs. dist. from the new cor. . . I destroy all traces of the old 1/4 sec. cor.
66.40	Trail bears N.W. and S.E.
80.00	Set a trachyte stone 16x12x10 ins., 11 ins. in the ground, for cor. of secs. 32 and 33, T.33 S., R.16 W., marked with 4 notches on the E. and 2 notches on the W. edges; dug pits 24x24x12 ins., in each sec., 6 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, N. of cor. From this cor. the old cor. of secs. 4, 5, 32 and 33, which is a limestone 10x7x5 ins., with traces of pits and mound, bears S.12° 45' E., 3.63 chs. I destroy all traces of the old cor. Land nearly level, gently sloping N. and N.W. Soil, sand and clay; 2nd. rate. No timber. Dense greasewood undergrowth 80.00 chs.
	N.89° 58' E. on the S. bdy. of sec. 33. Over nearly level land; in clay and sandy soil; through dense greasewood and scattering sage undergrowth.
16.70	Trail bears N.W. and S.E.
32.45	Old road bears N.40° W. and S.40° E.
40.00	Set a granite stone 12x12x4 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor. From this point I find traces of pits and mound with decayed stake for old 1/4 sec. cor., bears S.18° 24' E., 3.28 chs. dist., which I completely obliterate.
60.75	Trail bears N. and S.
61.05	Trail bears S.35° W. and N.35° E.
76.00	Trail bears N.40° E. and S.40° W.
80.00	Set a limestone 17x8x6 ins., 12 ins. in the ground, for cor. of secs. 33 and 34, marked with 3 notches on the E. and W. edges; dug pits 24x24x12 ins., in each sec. 6 ft., dist.; and raised a mound of earth, 4 ft. base, 2

Resurvey of the N.bdy.of T.34 S.,R.16 W.-Continued.

Chains. ft.high,N.of cor.

From this cor.the old cor.of secs.3,4,33 and 34, which is a limestone 12x11x4 ins.,with slight traces of pits,bears S.19 $1/2^{\circ}$ E. 2.94 chs.I destroy all traces of old cor.

Land nearly level,gently sloping N.and N.W.

Soil,clay and sandy; 2nd.rate. No timber.

Dense greasewood undergrowth on 80.00 chs.

N.89 $^{\circ}$ 58' E.on the S.bdy.of sec.34.

Over nearly level land;in clay and sandy soil;through dense greasewood and sage undergrowth.

39.50 Trail.bears N.10 $^{\circ}$ E.and S.10 $^{\circ}$ W.

40.00 Set a granite stone 17x10x5 ins.,12 ins.in the ground for $1/4$ sec.cor.,marked $1/4$ on N.face;dug pits 18x18 x12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 $1/2$ ft.base,1 $1/2$ ft.high,N.of cor. I find no trace of the old $1/4$ sec.cor.

80.00 Set a limestone 15x10x5 ins.,10 ins.in the ground, for cor.of secs.34 and 35,marked with 2 notches on the E.and 4 notches on the W.edges;dug pits 24x24x12 ins.in each sec.,6 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,N.of cor.

I find a limestone 8x7x5 ins.,with traces of pits and mound,for old cor.of secs.2,3,34 and 35,S.21 $^{\circ}$ 40' E.,2.27 chs.dist.from the new cor.

I obliterate all traces of the old cor.

Land almost level,gently sloping N.

Soil,clay and sandy;2nd.rate. No timber.

Dense greasewood or sage undergrowth on 80.00 chs.

May 17,1900:At this cor.I set off 19 $^{\circ}$.22' N.on the decl.arc;and at 11^h 56' a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37 $^{\circ}$ 54' N.

Resurvey of the N.bdy.of T.34 S.,R.16 W.-Continued.

Chains. N.89° 58' E.on a true line on the S.bdy.of sec.35.
Over nearly level land;in clay sandy soil;through
dense sage and greasewood undergrowth.

13.30 Trail bears S.10° W.and N.10° E.

32.15 Trail bears N.15° W.and S.15° E.

40.00 Set a granite stone 15x10x5 ins.,10 ins.in the ground
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18
x12 ins.,E.and W.of stone,3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
From this point the old 1/4 sec.cor.,which is a de-
cayed stake,with light traces of pits and mound,
bears S.23 1/4° E.,1.82 chs.dist.
I destroy the stake and obliterate all traces of the
pits and mound.

80.00 Set a trachyte stone 15x10x7 ins.,10 ins.in the
ground,for cor.of secs.35 and 36,T.33 S.,R.16 W.,
marked with 1 notch on the E.and 5 notches on the W.
edges;dug pits 24x24x12 ins.,in each sec.,6 ft.dist.;
and raised a mound of earth,4 ft.base,2 ft.high,N.of
cor.
From this cor. the old cor.of secs.1,2,35 and 36,
which is a limestone 10x8x5 ins., with traces of
pits,bears S.22° 20' E.,1.21 chs.dist.
I destroy all traces of the old cor.
Land nearly level,gently sloping N.and N.W.
Soil,clay and sandy;2nd.rate. No timber.
Dense greasewood or sage brush.undergrowth on 80.00
chs.

N.89° 58' E.on a true line on the S.bdy.of sec.36.
Over almost level land;gradually sloping N.and W. ;
in clay and sandy soil;through dense sage undergrowth

12.30 Trail bears N.and S.

40.00 Set a granite stone 12x12x6 ins.,8 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18
x 12 ins.,E.and W.of stone,3 ft.dist. ;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
I find no trace of the old 1/4 sec.cor.

Resurvey of the N.bdy.of T.34 S.,R.I6 W.,Continued.

Chains.

51.77 Trail bears N.20° W.and S.20° E.

76.90 Trail bears N.20° W.and S.20° E.

80.00 The cor.of Tp 33 S.,Rs.I5 and I6 W.heretofore described.

Land almost level;East 22.00 chs.on low bench,gradually sloping N.E.and N.;W.58.00 chs.,gently sloping N.and W.

Soil,clay and sandy with intermixture of gravel on bench;2nd.rate. No timber.

Dense sage brush undergrowth on 80.00 chs.

May 17,1900.

For tables of latitude,departures and closing errors,see notes of re-survey of Pine Valley Guide Meridian,through Tp .34 S.,bet.Rs.I5 and I6 W.

GENERAL DESCRIPTION.

Township 33 S.,R.I6 W.is nearly level on the S., and broken and rolling foot hills on the N.,producing an abundance of good grasses,shrubbery and undergrowth.

The completed line of the Utah and Pacific.R.R. crosses the township from North-easterly to South-westerly and passes about 45.00 chs.W.of the cor.of Tps.33 and 34 S.,Rs.I5 and I6 W. Along the grade of R.R.,the cuts form storm water ponds which are filled with water during the rainy season . . afford watering places for stock and sheep.There is a fresh water well in sec.36 of this township.There are no settlers to my knowledge in the township.

This township should be subdivided.

For further general description embracing T.34 S., R.I6 W.,see geneal description as given at close of notes of subdivisions of T.34 S.,R.I6 W.

Maynew H. Galley
U.S.Deputy Surveyor.

May 17,1900.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley

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

marking the lines and corners described in the foregoing field notes of the ^{ce} survey of the North

Boundary of Township No. 34 South, Range No. 16 West. ^{of the Salt Lake}

Base & meridian Celeb showing the respective capacities in which they acted:

Max W. Woodbury, Chainman.

Robert A. Thorley, Chainman.

David Dix, Moundman.

Thomas Urie, Moundman.

David Dix, Axman.

Thomas Urie, Axman.

William Macfarlane, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley

....., United States Deputy Surveyor, in ^{ce} surveying all

those parts or portions of the North Boundary of Township No. 34 South, Range No.

16 West,

..... of the Salt Lake

Base and meridian, State of Utah....., which are represented

in the foregoing field notes as having been ^{ce} surveyed by him and under his direction; and that said ^{ce} survey

has been in all respects, to the best of our knowledge and belief, well and faithfully ^{ce} surveyed, and the

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

General for the State of Utah.

Max W. Woodbury Chainman.

Robert A. Thorley Chainman.

David Dix Moundman.

Thomas Urie Moundman.

David Dix Axman.

Thomas Urie Axman.

William Macfarlane Flagman.

Subscribed and sworn to before me this 2nd.

day of June, 1900., 189

Senora G. Dalley
Notary Public



My Commission Expires
March 20th, 1903

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the North Boundary of Township No. 34 South, Range No. 16 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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 29 day of October, 1899.



Jacob B. Blair
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1902

The foregoing field notes of the survey of the North Boundary of Township No. 34 South, Range No. 16 West of the Salt Lake Base Meridian, Utah

executed by Mayhew H. Dalley under his contract No. 224, dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Underhill
United States Surveyor General

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

United States Surveyor General

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11. 2. 13.

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N S

OF

TOWNSHIP NO. 34 SOUTH, RANGE NO. 16 WEST

Of the SALT LAKE BASE AND Meridian,
in the
STATE OF UTAH.

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 224, dated January 23rd, 1899

Survey commenced May 18, 1900, 189

Survey completed May 30, 1900, 189

6-101

m. elev. 12-
 Sub-high 57-74-54 ✓
 " low 2-02-14 ✓
 Closing - 14-47 ✓
 Retirement of Policy } low 78-20 ✓
 " 11-Policy } 5-00-40 ✓

5976-39

NAMES AND DUTIES OF ASSISTANTS.

.....Max W. Woodbury,.....	Chainman.
.....Robert A. Thorley,.....	Chainman.
.....David Dix,.....	Moundman.
.....Thomas Urie,.....	Moundman.
.....David Dix,.....	Axman.
.....Thomas Urie,.....	Axman.
.....William Macfarlane,.....	Flagman.
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PRELIMINARY OATHS OF ASSISTANTS.

WE, Max W. Woodbury and Robert A. 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 Subdivisions of Township No. 34 South, Range No. 16 West of the 6th Sec. 34, Twp. 34 S., R. 16 W., S. 34

of the Base & Meridian, Elliptic

Max W. Woodbury, Chainman
Robert A. Thorley, Chainman

Subscribed and sworn to before me this 16th, day of April, 1900, 189

Senora C Dalley, Notary Public.



My Commission Expires March 20th, 1903

WE, David Dix and Thomas Urie

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 Township No. 34 South, Range No. 16 West of the 6th Sec. 34, Twp. 34 S., R. 16 W., S. 34

of the Base & Meridian, Elliptic

David Dix, Moundman
Thomas Urie, Moundman

Subscribed and sworn to before me this 16th, day of April, 1900, 189

Senora C Dalley, Notary Public.



My Commission Expires March 20th, 1903

WE, David Dix and Thomas Urie

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 Township No. 34 South, Range No. 16 West of the 6th Sec. 34, Twp. 34 S., R. 16 W., S. 34

of the Base & Meridian, Elliptic

David Dix, Axman
Thomas Urie, Axman

Subscribed and sworn to before me this 16th, day of April, 1900, 189

Senora C Dalley, Notary Public.



My Commission Expires March 20th, 1903

I, William Macfarlane, 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 Township No. 34 South, Range No. 16 West of the 6th Sec. 34, Twp. 34 S., R. 16 W., S. 34

of the Base & Meridian, Elliptic

William Macfarlane, Flagman

Subscribed and sworn to before me this 16th, day of April, 1900, 189

Senora C Dalley, Notary Public.



My Commission Expires March 20th, 1903

Subdivisions of T.34 S.,R.16 W.

Chains. Survey commenced May 18, 1900, and executed with a W. and L. E. Gurley Light Mountain Solar Transit for description of which see notes of S. bdy. T. 42 S., R. 14 W., Book A

May 18, 1900: I return to the Meridian established May 15, 1900, from Polaris at the cor. of Tps. 34 and 35 S., Rs. 15 and 16 W.

At 7^h a.m., l.m.t., I set off 37° 49' N. on the lat. arc; 19° 33' N. on the declination arc; and test the adjustments of my solar, finding it gives the same meridian as before and adjustments correct.

I commence at the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of the Tp., which is a volcanic stone 6x8 x 5 ins. above ground, marked and witnessed as described by the surveyor General.

At this cor. I set off 37° 49' N. on the lat. arc; 19° 33' N. on the decl. arc; and at 8^h a.m., l.m.t., determine a true meridian with the solar.

Thence I run

N. 0° 1' W., bet. secs 35 and 36 .

Over almost level land, gently sloping N.

Through dense greasewood undergrowth; in clay soil.

34.98 Road from Cedar City to Modena and Desert Springs bears S. 85° E. and N. 85° W.

35.98 North side of road.

40.00 Set a granite stone 17x15x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high W. of cor.

80.00 set a porphyry stone 24x10x6 ins., 18 ins. in the ground for cor. of secs. 25, 26, 35 and 36, marked with one notch on the S. and E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land almost level, gradually sloping N.

Soil, rich clay; 2nd. rate. No timber.

Dense greasewood undergrowth 80.00 chs.

S. 89° 58' E. on a random line bet. secs. 25 and 36.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.

- 40.00 Set temp. $1/4$ sec. cor.
- 80.06 Intersect E. bdy. of Tp.-Pine valley Guide Mer., 14 lks. S. of cor. secs. 25, 30, 31 and 36, which I established May 15, 1900.
Thence I run
S. $89^{\circ} 56'$ W. on a true line bet. secs. 25 and 36.
Over almost level ground; through dense greasewood undergrowth; in clay soil.
- 17.00 Leave clay soil; enter sandy loamy soil bears N.E. and S.W.
- 40.03 Set a granite stone 12x8x8 ins., 12 ins., in the ground for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18 x 12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high, N. of cor.
- 80.06 The cor. of secs. 25, 26, 35 and 36.
Land almost level, gently sloping N.E.
Soil, clay and sandy loam; 2nd. and 1st. rate. No timber.
Dense greasewood undergrowth 80.06 chs.
-
- N. $0^{\circ} 1'$ W. bet. secs. 25 and 26.
Over almost level land, gradually sloping N.; through dense greasewood undergrowth; in clay soil.
- 13.00 Enter dense rabbit brush undergrowth bears N.E. and S.W.
- 22.00 Leave dense rabbit brush undergrowth bears N. 30° E. and S. 20° W.
- 40.00 Set a granite stone 16x12x3 ins., 11 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18 x 12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor.
- 76.00 Enter dense rabbit brush undergrowth and leave dense greasewood undergrowth bears N.E. and S.W.
- 80.00 Set a granite stone 11x10x10 ins., 8 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on the S. and 1 notch on the E. edges; dug pits 18x18 x 12 ins., in each sec. 5 $1/2$ ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. Land almost level, gradually sloping N. and N.E.
 Soil, clay; 2nd. rate. No timber.
 Dense greasewood and rabbit brush undergrowth 80.00
 chs.
 May 18, 1900: At this cor. I set off $19^{\circ} 35'$ N. on the
 decl. arc; and, at $11^{\text{h}} 56^{\text{m}}$ a.m., l.m.t., observe the sun
 on the meridian; the resulting lat. is $37^{\circ} 50' 21''$ N.

N. $89^{\circ} 56'$ E. on a random line bet. secs. 24 and 25.
 40.00 Set temp. $1/4$ sec. cor.
 80.12 Intersect E. bdy. of Tp. - Pine Valley Guide Mer. - 23 lks.
 S. of cor. of secs. 19, 24, 25 and 30, which I established
 May 15, 1900.
 Thence I run
 S. $89^{\circ} 46'$ W. on a true line bet. secs. 24 and 25.
 Over nearly level land; through dense greasewood un-
 dergrowth; in clay loamy soil.
 5.00 Leave clay loamy soil, enter sandy soil bears N.E. and
 S.W.
 12.30 Leave sandy soil, enter clay soil, bears N.E. and S.W.
 40.06 Set a limestone $16 \times 10 \times 4$ ins., 11 ins. in the ground,
 for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18×18
 $\times 12$ ins., E. and W. of stone 3 ft. dist.; and raised a
 mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high N. of cor.
 54.30 Leave clay soil, enter sandy loamy soil bears N.E. and
 S.W.
 62.30 Leave sandy loamy soil, enter clay soil, bears N.E. and
 S.W.
 72.00 Leave dense greasewood undergrowth and enter dense
 rabbit brush undergrowth bears N.E. and S.W.
 80.12 The cor. of secs. 23, 24, 25 and 26.
 Land almost level, gently sloping N. and N.E.
 Soil, clay loam, sandy, clay, and sandy loam; 1st. and
 2nd. rate. No timber.
 Dense greasewood and rabbit brush undergrowth 80.12
 chs.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. North, $0^{\circ} 1'$ W. bet. secs. 23 and 24.

Over almost level land.

Through dense rabbit brush undergrowth, in clay soil.

1.00 Leave clay soil, enter sandy soil bears N.E. and S.W.

5.00 Leave dense rabbit brush undergrowth, and enter dense greasewood and sage undergrowth, bears N.E. and S.W.

40.00 Set a trachyte stone 16x12x8 ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor.

80.00 Set a limestone 17x15x5 ins., 12 ins. in the ground, for cor. of secs. 13, 14, 23 and 24, marked with 3 notches on the S. and 1 notch on the E. edges; dug pits 18x18x12 ins. in each sec. 5 $1/2$ ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land nearly level, gently sloping N. and N.E.

Soil, clay and sandy; 2nd. rate. No timber.

Dense greasewood, sage and rabbit brush undergrowth

80.00 chs.

N. $89^{\circ} 46'$ E. on a random line bet. secs. 13 and 24.

40.00 Set temp. $1/4$ sec. cor.

80.10 Intersect E. bdy. of Tp. - Pine Valley Guide Mer. - 4 lks. N. of cor. of secs. 13, 18, 19 and 24, which I established May 15, 1900.

Thence I run

S. $89^{\circ} 46'$ W. on a true line bet. secs. 13 and 24.

Over nearly level land; through dense greasewood undergrowth and scattering sage brush; in clay soil.

10.00 Enter clay loamy soil bears N. and S.; leave clay soil

40.00 Set a quartzite stone 16x10x7 ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high, N. of cor.

10.00 Leave scattering sage undergrowth and enter dense sage undergrowth bears N. and S.; continue in dense greas-

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. wood undergrowth.
 75.00 Enter sandy soil bears N. and S.; leave clay loamy soil.
 80.10 The cor. of secs. 13, 14, 23 and 24.
 Land nearly level, gently sloping N. and N.E. No timber.
 soil, clay, sandy, and clay loam; 2nd. and 1st. rate.
 Dense greasewood and sage undergrowth 80.10 chs.
 May 18, 1900.

N. 0° 1' W. bet. secs. 13 and 14 .

Over almost level land, gently sloping N.

Through dense sage and greasewood undergrowth; in sandy soil.

10.00 Leave dense sage undergrowth bears N.E. and S.W.; continue in dense greasewood undergrowth; leave sandy soil bears E. and W.; enter clay soil.

40.00 Set a granite stone 16x8x6 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18 x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a granite stone 12x10x5 ins., 8 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on the S. and 1 notch on the E. edges; dug pits 18x18 x12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land almost level, gradually sloping to N.
 Soil, sand and clay; 2nd. rate. No timber.
 Dense greasewood and sage undergrowth 80.00 chs.

N. 89° 48' E. on a random line bet. secs. 12 and 13.

40.00 Set temp. 1/4 sec. cor.

80.22 Intersect E. bdy. of Tp.-Pine Valley Guide Mer.-11 lks. N. of cor. of secs. 7, 12, 13 and 18, which I established May 15, 1900.
 Thence I run.

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. S. $89^{\circ} 53'$ W. on a true line bet. secs. 12 and 13.
Over nearly level land, gradually sloping N.
Through dense greasewood undergrowth, in clay soil.
- 40.11 Set a lava stone 16x12x5 ins., 11 ins. in the ground,
for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18x
12 ins., E. and W. of stone 3 ft. dist.; and raised a
mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high N. of cor.
- 80.22 The cor. of secs. 11, 12, 13 and 14.
Land nearly level, gently sloping N.
Soil, clay slightly intermixed with alkali; 2nd. rate.
Dense greasewood undergrowth 80.22 chs. No timber.
-
- N. $0^{\circ} 1'$ W. bet. secs. 11 and 12.
Over nearly level land, gently sloping N. and N.W.
Through dense greasewood undergrowth, in clay soil.
- 40.00 Set a granite stone 14x12x5 ins., 10 ins. in the ground
for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x
12 ins., N. and S. of stone 3 ft. dist.; and raised a
mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor.
- 42.00 East end of a storm water pond, about 20.00 chs. long
and 15 chs. wide, course E. and W., bears W. about 5.00
chs.
- 72.00 Enter dense sage undergrowth and sandy soil, bears N.E.
and S.W.; leave clay soil; continue in dense grease-
wood undergrowth. Enter scattering rabbit brush.
- 80.00 Set a granite stone 20x12x10 ins., 15 ins., in the
ground, for cor. of secs. 1, 2, 11 and 12, marked with 5
notches on the S. and 1 notch on the E. edges; dug pits
18x18x12 ins. in each sec. 5 $1/2$ ft. dist.; and raised
a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land nearly level, gradually sloping to storm water
pond on S. $1/2$ of sec.; N. $1/2$ of sec. slopes N.E.
Soil, 72.00 chs. clay slightly intermixed with alkali;
8.00 chs. sandy; 2nd. rate. No timber.
Dense greasewood and sage undergrowth 80.00 chs.
May 19, 1900: At this cor. I set off $19^{\circ} 48'$ N. on the
decl. arc; and, at 11^h 56^m a.m., l.m.t., observe the sun
on the meridian; the resulting lat. is $37^{\circ} 53'$ N.

Subdivisions of T.34.S.,R.16.W.-Continued.

- Chains. N.89°53' E.on a random line bet.secs.1 and 12.
- 40.00 Set temp.I/4 sec.cor.
- 80.12 Intersect E.bdy.of Tp.-Pine Valley Guide Meridian-
11 lks.N.of cor.secs.1,6,7 and 12,which I establish-
ed May 15,1900.
- Thence I run
- S.,89°58' W.on a true line bet.secs.1 and 12.
- Over nearly level land,gently sloping N.E.;through
dense greasewood undergrowth;in clay soil.
- I.20 Trail bears N.and S.
- 29.90 Trail bears N.10°W.and S.10°E.
- 32.20 Trail bears N.10° W.and S.10°E.
- 40.06 Set a granite stone 18x11x5 ins.,12 ins.in the
ground,for I/4 sec.cor.,marked I/4 on N.face;dug
pits 18x18x12 ins.,E.and W.of stone 3 ft.dist.;and
raised a mound of earth 3 I/2 ft.base,1 I/2 ft.high,
N.of cor.
- 40.24 Trail bears N.and S.
- 64.55 Trail bears N.E.and S.W.
- 70.30 Enter dense sage and scattering rabbit brush under-
growth,bears N.20° E.and S.40° W.;continue in dense
greasewood undergrowth;enter sandy soil bears N.E.
and S.W.;leave clay soil.
- 80.12 The cor of secs.1,2,11 and 12.
- Land nearly level,gently sloping N.and N.E.
Soil,clay and sandy;2nd.rate. No timber.
Dense greasewood and sage undergrowth 80.12 chs.
-
- North,0° I' W.on a random line bet.secs.1 and 2.
- 40.00 Set temp.I/4 sec.cor.
- 79.67 Intersect N.bdy.of Tp.3.26 chs,^{N.89°58'}E.of cor.secs.35 and
36,T.33 S.,R.16 W.,already described;at which point
of intersection I set a granite stone 16x10x6 ins.,
11 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;dug pits 24x18x12 ins.crosswise on each
line,E.and W.,3 ft.,and S.of stone 7 ft.dist.;and
raised a mound of earth 4 ft.base,2 ft.high,S.of cor.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. May 19, 1900: At this closing cor. of secs. 1 and 2 I set off $37^{\circ} 54'$ N. on the lat. arc; $19^{\circ} 51'$ N. on the decl. arc; and, at 4^h p.m., l.m.t., determine a true meridian with the solar.

Thence I run
 $S. 0^{\circ} 1'$ E. on a true line bet. secs. 1 and 2.
 Over almost level land, gradually sloping N.; through dense greasewood undergrowth; in clay soil.

32.67 Leave clay soil bears E. and W.; enter sandy clay soil.

38.12 Trail bears $N. 40^{\circ} E.$ and $S. 40^{\circ} W.$

39.67 Set a granite stone 18x11x5 ins., 12 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raised a mound of earth $3 1/2$ ft. base, $1 1/2$ ft. high, W. of cor.

70.00 Enter sandy soil bears E. and W.; leave sandy clay soil.

75.00 Enter dense sage and scattering rabbit brush undergrowth bears N.E. and S.W.; still in dense greasewood undergrowth.

79.67 The cor. of secs. 1, 2, 11 and 12.
 Land nearly level, gently sloping N. and N.W.
 Soil, clay and sandy; 2nd. rate. No timber.
 Dense greasewood and sage undergrowth 79.67 chs.
 May 19, 1900.

May 21, 1900: At 7^h a.m., l.m.t., I set off $37^{\circ} 49'$ N. on the lat. arc; $20^{\circ} 11'$ 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., which is a granite stone 6x7x5 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run
 $N. 0^{\circ} 1'$ W. bet. secs. 34 and 35.
 Gradually descend over nearly level land; through dense greasewood undergrowth; in sandy clay soil.

40.00 Set a gray sandstone 13x10x6 ins., 9 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raised a

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 42.40 Road from Cedar City to Modena and Desert Springs, bears S.80° E. and N.80° W.
- 80.00 Set a gray sandstone 17x10x 4 ins., 12 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on the S. and 2 notches on the E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land almost level, gently sloping N.
- Soil, sandy clay; 2nd. rate. No timber.
- Dense greasewood undergrowth 80.00 chs.
-
- S.89° 58' E. on a random line bet. secs. 26 and 35.
- 40.00 Set temp. 1/4 sec. cor.
- 80.18 Intersect N. and S. line 6 lks. N. of cor. of secs. 25, 26, 35 and 36; thence I run
- N.89° 55' W. on a true line bet. secs. 26 and 35.
- Over nearly level land, gently sloping N.; through dense greasewood undergrowth; in clay soil.
- 10.00 Enter sandy clay soil bears N. and S.; leave clay soil.
- 40.09 Set a trachyte stone 16x8x5 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
- 80.18 The cor. of secs. 26, 27, 34 and 35.
- Land nearly level, gently sloping N.
- Soil, clay and sandy clay; 2nd. rate. No timber.
- Dense greasewood undergrowth 80.18 chs.
-
- N.0° 1' W., bet. secs. 26 and 27.
- Gradually descend over nearly level land; through dense greasewood undergrowth; in sandy clay soil.
- 2.00 Enter loamy soil and dense sage and rabbit brush undergrowth bears N.E. and S.W.; leave sandy clay soil;

Subdivisions of T.34 S., R.16 W.-Continued.

Chains	continue in dense greasewood undergrowth.
30.00	Leave loamy soil bears E. and W.; enter sandy soil.
40.00	Set a porphyry stone 11x10x5 ins., 8 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
57.20	Enter low rolling sand knolls bears S. 40° W. and N. 30° E.
80.00	Set a granite stone 16x8x6 ins., 11 ins. in the ground for cor. of secs. 23, 24, 25 and 26, marked with 2 notches on S. and E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
	Land, near level and rolling sand hills.
	Soil, sandy clay, loamy and sandy; 2nd. and 1st. rate.
	Dense sage, greasewood and rabbit brush undergrowth
80.00 chs.	No timber.
	S. 89° 55' E. on a random line bet. secs. 23 and 26.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect N. and S. line 4 lks. S. of cor. of secs. 23, 24, 25 and 26.
	Thence I run
	N. 89° 57' W. on a true line bet. secs. 23 and 26.
	Over nearly level land; in clay soil; through dense rabbit brush undergrowth.
5.00	Enter dense greasewood and sage undergrowth bears N. and S.; leave dense rabbit undergrowth.
20.00	Leave dense sage undergrowth and clay soil bears N. and S.; enter sandy soil; still in dense greasewood undergrowth.
40.10	Set a gray sandstone 16x8x3 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high N. of cor.
72.20	Enter low rolling sand hills and dense sage and rabbit brush undergrowth bears N. 40° E. and S. 40° W.; leave dense greasewood undergrowth.

Subdivisions of T.34 S., R.16 W. -Continued.

Chains.
80.20

The cor. of secs. 22, 23, 26 and 27.
 Land nearly level, gently sloping N., E. of sandhills;
 in sand knolls, rolling.
 Soil, clay and sandy; 2nd. rate. No timber.
 Dense greasewood, sage and rabbit brush undergrowth
 80.20 chs.
 May 21, 1900: At this cor. I set off $120^{\circ} 13'$ N. on the d^e
 decl. arc; and, at II^h 56^m, a.m., l.m.t., observe the sun
 on the meridian; the resulting lat. is $37^{\circ} 50' 2''$ N.

North, $0^{\circ} 1'$ W. bet. secs. 22 and 23.
 Over low rolling sand knolls; through dense sage and
 rabbit brush undergrowth; in sandy soil.
 7.00 Leave sand knolls bears $N. 40^{\circ} E.$ and $S. 40^{\circ} W.$; thence
 gradually descend over nearly level land.
 32.00 Leave dense sage and rabbit brush and sandy soil
 bears N.E. and S.W.; enter dense greasewood undergrowth
 and clay soil.
 40.00 Set a granite stone 16x12x6 ins., 11 ins. in the ground
 for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18
 x12 ins., N. and S. of stone 3 ft. dist.; and raised a
 mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
 55.00 Leave clay soil and enter sandy soil bears E. and W.
 73.00 Leave dense greasewood undergrowth and enter medium
 dense greasewood bears E. and W.
 80.00 Set a quartzite stone 15x12x10 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 the E. edges; dug
 pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.; and
 raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
 Land rolling in sand knolls; N. of sand knolls nearly
 level, gently sloping N.
 Soil, sand and clay; 2nd. rate. No timber.
 Dense greasewood, sage and rabbit brush undergrowth
 73.00 chs.

73/7

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. S.89° 57' E. on a random line bet. secs. 14 and 23.
 40.00 Set temp. 1/4 sec. cor.
- 80.24 Intersect N. and S. line 4 lks. S. of cor. of secs. 13, 14, 23 and 24.
 Thence I run
 N. 89° 59' W. on a true line bet. secs. 14 and 23.
 Over nearly level land; through dense sage and grease-wood undergrowth; in sandy soil.
- 5.00 Enter loamy clay soil bears N. and S.; leave sandy soil
 25.00 Leave loamy clay soil and enter clay sandy soil bears N. and S.
- 40.12 Set a limestone 15x8x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 62.00 Leave dense greasewood and sage undergrowth, bears N. 20° E. and S. 20° W.; enter medium dense greasewood.
 Enter sandy soil and leave clay sandy soil bears N. and S.
- 80.24 The cor. of secs. 14, 15, 23 and 23.
 Land nearly level, gently sloping N.
 Soil sandy, loamy clay; 2nd. and 1st. rate. No timber.
 Dense sage and greasewood undergrowth 62.00 chs.
-
- N. 0° 1' W. bet. secs. 14 and 15.
 Over nearly level land; through medium dense greasewood undergrowth and sandy soil.
- 5.00 Enter clay soil bears E. and W.; leave sandy soil.
- 40.00 Set a granite stone 22x6x6 ins., 17 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 64.00 Enter dense greasewood and sage undergrowth bears E. and W.; leave medium dense greasewood undergrowth.
- 80.00 Set a trachyte stone 18x10x6 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. and 2 notches on the E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.	<p>raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gradually sloping N. Soil sandy and clay; 2nd. rate. No timber. Dense greasewood and sage undergrowth 16.00 chs. May 21, 1900.</p>
40.00	<p>S. $89^{\circ} 59'$ E on a random line bet. secs. 11 and 14. Set temp. $1/4$ sec. cor.</p>
80.28	<p>Intersect N. and S. line 3 lks. N. of cor. of secs. 11, 12, 13 and 14. Thence I run N. $89^{\circ} 58'$ W. on a true line bet. secs. 11 and 14. Over nearly level land; through dense greasewood un- dergrowth; in clay soil.</p>
40.14.	<p>Set a granite stone 12x12x5 ins., 8 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18 x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high N. of cor.</p>
76.40	<p>Trail bears S. 50° E. and N. 50° W.</p>
80.28	<p>The cor. of secs. 10, 11, 14 and 15. Land nearly level, gently sloping N. and N.W. No timber. Soil, clay slightly intermixed with alkali; 2nd. rate. Dense greasewood undergrowth 80.28 chs.</p>
15.15	<p>N. 0° $1'$ W. bet. secs. 10 and 11. Over nearly level land; through dense greasewood un- dergrowth; in clay soil.</p>
40.00	<p>Trail bears N.W. and S.E. Set a granite stone 22x6x6 ins., 17 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18 x 12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 $1/2$ ft. base, 1 $1/2$ ft. high, W. of cor.</p>
56.80	<p>Trail bears N.W. and S.E.</p>
57.00	<p>Enter dense sage and rabbit brush undergrowth and sandy soil bears N. 50° W. and S. 50° E. leave dense</p>

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains greasewood undergrowth and clay soil.
- 75.80 Leave dense rabbit brush undergrowth bears N.W. and S.E.; continue in dense sage undergrowth.
- 80.00 Set a volcanic stone 16x12x6 ins., 11 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, marked with 5 notches on the S. and 2 notches on the E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. Soil clay and sandy; 2nd. rate. No timber. Dense greasewood, sage and rabbit brush undergrowth 80.00 chs.

- 40.00 S. 89° 58' E. on a random line bet. secs. 2 and 11. Set temp. 1/4 sec. cor.
- 80.32 Intersect N. and S. line at the cor. of secs. 1, 2, 11 and 12. Thence I run N. 89° 58' W. on a true line bet. secs. 2 and 11. Over nearly level land; through dense sage and greasewood undergrowth and scattering rabbit brush; in sandy soil.
- 11.24 Trail bears N. and S.
- 13.68 Trail bears N. and S.
- 25.18 Leave dense sage and rabbit brush undergrowth and sandy soil bears N. and S.; enter clay soil; continue in dense greasewood undergrowth.
- 28.18 Trail bears N.W. and S.E.
- 40.16 Set a trachyte stone 16x10x4 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 48.18 Enter dense sage undergrowth and sandy soil bears N. and S.; leave dense greasewood undergrowth and clay soil.
- 62.18 Leave sandy soil bears N. and S.; enter sandy gravelly soil.
- 75.18 Enter sandy soil bears N. and S.; leave sandy gravelly

Subdivisions of T.34.S., R.16.W.-Continued.

- Chains. soil.
- 80.32. The cor. of secs. 2, 3, 10 and 11.
Land nearly level gently sloping N. No timber.
Soil, sandy, clay and gravelly; 2nd. and 3rd. rate.
Dense greasewood and sage undergrowth 80.32 chs.
May 22, 1900: At this cor. I set off $20^{\circ} 25'$ N. on the decl. arc; and, at 11^h 57^m a.m., l.m.t.; observe the sun on the meridian; the resulting lat. is $37^{\circ} 53'$ N.
-
- N. $0^{\circ} 1'$ W. on a random line bet. secs. 2 and 3.
- 40.00. Set temp. $1/4$ sec. cor.
- 79.48. Intersect N. bdy. of Tp. 2.86 chs. $N. 89^{\circ} 58'$ E. of cor. of secs. 34 and 35 already described;
at which point of intersection I set a granite stone $18 \times 12 \times 10$ 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; dug pits $24 \times 18 \times 12$ ins. crosswise on each line E. and W., 3 ft., and S. of stone 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
Thence I run...
S. $0^{\circ} 1'$ E. on a true line bet. secs. 2 and 3.
Over nearly level land, through dense greasewood undergrowth; in clay soil.
- 9.00. Enter dense sage undergrowth and sandy soil bears S. 35° E. and N. 35° W.; leave clay soil; continue in dense greasewood undergrowth.
- 36.50. Enter gravelly sandy soil bears E. and W.; leave sandy soil.
- 39.48. Set a granite stone $12 \times 10 \times 6$ ins., 8 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits $18 \times 18 \times 12$ ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high W. of cor.
- 46.20. Enter sandy soil bears E. and W.; leave gravelly soil; and dense greasewood undergrowth; continue in dense sage undergrowth.
- 79.48. The cor. of secs. 2, 3, 10 and 11.
Land nearly level, gently sloping N.

Subdivisions of T.34.S., R.16.W.-Continued.

Chains. Soil, clay, sandy and gravelly; 2nd. and 3rd. rate. No timber. Dense sage and greasewood undergrowth 79.48 chs.

May 22, 1900: At 4^h 30^m p.m., l.m.t., I set off 37° 49' N. on the lat. arc; 20° 28' 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., which is a granite stone 6x9x8 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence I run

N. 0° 2' W. bet. secs 33 and 34 .

Descend gradually over nearly level land; through dense sage and greasewood undergrowth and scattering rabbit brush; in sandy, gravelly and loamy soil.

40.00 Set a volcanic stone 15x8x8 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18 x 12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

59.18 Road from Cedar City to Modena and Desert Springs, bears E. and W.

80.00 Set a trachyte stone 16x10x5 ins., 11 ins. in the ground, for cor. of secs. 27, 28, 33 and 34; marked with I notch on the S. and 3 notches on the E. edges; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. No timber. Soil, loamy, sandy and gravelly; 1st. 2nd. and 3rd. rate. Dense sage and greasewood undergrowth 80.00 chs.

May 22, 1900.

S. 89° 58' E. on a random line bet. secs. 27 and 34.

40.00 Set temp. 1/4 sec. cor

80.02 Intersect N. and S. line 16 lks. N. of cor. of secs. 26, 27, 34 and 35.

Thence I run

N. 89° 51' W. on a true line bet. secs. 27 and 34.

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. Over nearly level land; through dense greasewood and sage undergrowth; in clay sandy soil and loam.
- 40.01 Set a quartzite stone 16x8x8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; dug pits 18x18x12 ins. E. and W. of stone 3 ft. dist.; and raised a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 80.02 The cor. of secs. 27, 28, 33 and 34.
Land nearly level, gently sloping N. No timber.
Soil, sandy, clay sandy and loamy; 2nd. and 1st. rate.
Dense greasewood and sage undergrowth 80.02 chs.
-
- N. 0° 2' W. bet. secs. 27 and 28.
- Over nearly level land; through dense sage and greasewood undergrowth; in sandy, clay and loamy soil.
- 40.00 Set a trachyte stone 17x12x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 40.20 Foot of low rolling sand knolls bears E. about 1.00 ch., and N.W. about 5.00 chs.
- 43.00 Leave rolling sand knolls bears N.E. and S.W.; thence over nearly level land.
- 80.00 Set a trachyte stone 18x10x5 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges; dug pits 18x18x12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
- Land nearly level, gently sloping N., except in sand-hills, rolling.
- Soil sandy, clay and loamy; 2nd. and 1st. rate. No timber.
Dense sage and greasewood undergrowth 80.00 chs.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.	S.89° 51' E.on a random line bet.secs.22 and 27.
40.00	Set temp.1/4 sec.cor.
79.96	Intersect N.and S.line 2 lks.N.of cor.of secs.22,23, 26 and 27. Thence I run N.89° 50' W.on a true line bet.secs.22 and 27. Over low rolling sand knolls;through dense sage and rabbit brush undergrowth;in sandy,clay,loamy soil.
6.00	Leave sand knolls bears N.40° E.and S.40° W. ;thence over nearly level land.
39.98	Set a granite stone 14x8x6 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18 x 12 ins.E.and W.of stone 3 ft.dist.;and raised a mound of earth 3 1/2 ft.base,1 1/2 ft.high,N.of cor.
79.96	The cor.of secs.21,22,27 and 28. Land,rolling,and nearly level,gently sloping N. Soil sandy,clay and loamy;2nd.and 1st.rate. No timber. Dense undergrowth 79.96 chs.
	N.0° 2' W.bet.secs.21 and 22. Gradually descend over nearly level land;through dense greasewood and rabbit brush undergrowth;in clay soil.
40.00	Set a volcanic stone 18x11x7 ins.,12 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;dug pits 18x18x12 ins.,N.and S.of stone 3 ft.dist.;and raised a mound of earth 3 1/2 ft.base,1 1/2 ft.high,W.of cor
80.00	Set a volcanic stone 17x14x6 ins.,12 ins.in the ground,for cor.of secs.15,16,21 and 22,marked 34 S. on N.E.and 16 W.on S.E.faces,with 3 notches on the S. and E.edges;dug pits 18x18x12 ins.in each sec. 5 1/2 ft.dist.;and raised a mound of earth 4 ft.base,2 ft. high,W.of cor. Land nearly level,gently sloping N.and N.W. Soil,clay;2nd.rate. No timber. Dense undergrowth 80.00 chs. May 25,1900:At this cor.I set off 20° 37' N.on the decl.arc;and,at 11 ^h 57 ^m a.m.,l.m.t.,observe the sun

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.	on the meridian; the resulting lat. is $37^{\circ}51\frac{1}{2}'N.$
40.00	S. $89^{\circ}50'$ E. on a random line bet. secs. 15 and 22. Set temp. $1/4$ sec. cor.
79.92	Intersect N. and S. line 2 lks. S. of cor. of secs. 14, 15, 22 and 23. Thence I run N. $89^{\circ}51'$ W. on a true line bet. secs. 15 and 22. Over nearly level land; through dense greasewood and rabbit brush undergrowth; in sandy and clay soil.
39.96	Set a granite stone $22 \times 10 \times 8$ ins., 17 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.92	The cor. of secs. 15, 16, 21 and 22. Land nearly level; gradually sloping N. and N.W. Soil clay and sandy; 2nd. rate. No timber. Dense undergrowth 79.92 chs.
40.00	N. $0^{\circ}2'$ W. bet. secs. 15 and 16. Over nearly level land; through dense greasewood and rabbit brush undergrowth; in clay and sandy soil. Set a volcanic stone $14 \times 14 \times 4$ ins., 10 ins., in the ground, for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits $18 \times 18 \times 12$ ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth $3\frac{1}{2}$ ft. base $1\frac{1}{2}$ ft. high, W. of cor.
67.00	Enter low rolling sand knolls, bears E. and W. Leave dense greasewood and rabbit brush undergrowth bears N.E. and S.W.; enter medium dense undergrowth.
80.00	Set a trachyte stone $17 \times 10 \times 4$ ins., 12 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, marked with 4 notches on the S. and 3 notches on the E. edges; dug pits $18 \times 18 \times 12$ ins., in each sec. $5\frac{1}{2}$ ft. dist.; and

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.	<p>raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, on S. part, gently sloping N.; rolling low sand knolls on the North part of sec. Soil, clay and sandy; 2nd. rate. No timber. Dense greasewood and rabbit brush undergrowth 67.00 chs.</p>
40.00	<p>S. $89^{\circ} 51'$ E. on a random line bet. secs. 10 and 15. Set temp. $1/4$ sec. cor.</p>
79.90	<p>Intersect N. and S. line 2 lks. S. of cor. secs. 10, 11 14 and 15. May 23, 1900: At this cor. I set off $37^{\circ} 53'$ N. on the lat. arc; $20^{\circ} 39'$ N. on the decl. arc; and determine a true meridian with the solar. Thence I run N. $89^{\circ} 52'$ W. on a true line bet. secs. 10 and 15. Over nearly level land; through dense greasewood undergrowth; in clay soil.</p>
39.95	<p>Set a trachyte $17 \times 10 \times 8$ ins., 12 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits $18 \times 18 \times 12$ ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, N. of cor.</p>
70.00	<p>Enter low rolling sand hills bears N.E. and S.W.; leave dense greasewood undergrowth and enter medium dense undergrowth bears N. and S.</p>
79.90	<p>The cor. of secs. 9, 10, 15 and 16. Land level; gently sloping N., and rolling sand knolls. Soil, clay and sandy; 2nd. rate. No timber. Dense greasewood undergrowth 70.00 chs. May 23, 1900.</p>
10.00	<p>N. $0^{\circ} 2'$ W. bet. secs. 9 and 10 Over low rolling sand knolls; through dense greasewood undergrowth; in sandy and clay soil. Leave low rolling sand knolls bears N.E. and S.W.;</p>

Subdivisions of T.34 S.-R.16 W.-Continued.

Chains. thence over nearly level land.

35.30 Trail bears N.60° W. and S.60° E.

40.00 Set a volcanic stone 15x11x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron stone 14x10x8 ins., 10 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, marked with 5 notches on the S. and 3 notches on the E. edges.; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling sand knolls, and nearly level land, gently sloping N. and N.W.

Soil, clay and sandy; 2nd. rate. No timber.

Dense greasewood undergrowth on 80.00 chs.

S.89° 52' E. on a random line bet. secs. 3 and 10.

40.00 Set temp. 1/4 sec. cor.

79.86 Intersect N. and S. line 7 lks. N. of cor. of secs. 2, 3, 10 and 11.

Thence I run

N.89° 49' W. on a true line bet. secs. 3 and 10.

Over nearly level land; through dense sage, greasewood and rabbit brush undergrowth; in sandy and clay soil.

39.93 Set a limestone 14x8x6 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.86 The cor. of secs. 3, 4, 9 and 10.

Land nearly level; gently sloping N. and N.W.

Soil, sandy and clay; 2nd. rate. No timber.

Dense greasewood, sage or rabbit brush undergrowth on 79.86 chs.

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. N.0° 2' W. on a random line bet. secs. 3 and 4. . .
- 40.00 Set temp. 1/4 sec. cor.
- 79.20 Intersect. N. bdy. of Tp. 3.05 chs. N. 89° 58' E. of cor. of secs. 33 and 34; T. 33 S., R. 16 W., heretofore described. Set a granite stone 17x11x4 ins., 12 ins. in the ground for closing cor. of secs. 3 and 4, marked C.C. on S., with 3 grooves on E. and W. faces; dug pits 24x18x12 ins. crosswise on each line E. and W., 3 ft., and S. of stone 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor. . .
- May 24, 1900: At this closing cor. I set off 20° 48' N. on the decl. arc; and at 11^h 57' a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 54' N. Thence I run
- S.0° 2' E. on a true line bet. secs. 3 and 4. . .
- Over nearly level land; through dense greasewood and sage undergrowth; in sandy, gravelly and clay soil.
- 34.10 Trail bears N.40° E. and S.30° W.
- 39.20 Set a granite stone 14x12x5 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 61.08 Trail bears S.60° W. and N.60° E.
- 71.90 Trail bears S.75° W. and N.75° E.
- 76.10 Trail bears S.75° W. and N.75° E.
- 79.20 The cor. of secs. 3, 4, 9 and 10.
- Land nearly level, gently sloping N. and N.W.
- Soil clay and sandy with slight sprinkling of gravel; 2nd. and 3rd. rate. No timber.
- Dense greasewood and sage undergrowth on 79.20 chs.

From the cor. of secs. 4, 5, 32 and 33, on S., bdy. of Tp., heretofore described, I run

N.0° 3' W., bet. secs 32 and 33.

Over low rolling sand knolls; through dense sage, greasewood and rabbit brush undergrowth; in sandy and clay soil.

- 16.20 Leave sand knolls bears N.55° E. and S.40° W.; thence

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Subdivisions of T.34 S., R.16 W.-- Continued.

Chains	over nearly level ground.
40.00	Set a porphyry stone 17x10x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
56.40	Road from Cedar City to Modena and Desert Springs bears S. 80° E. and N. 80° W.
80.00	Set a trachyte stone 15x10x4 ins., 10 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on the S. and 4 notches on the E. edges; dug pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling sand knolls; and nearly level land, gently sloping N. Soil, sandy and clay; 2nd. rate. No timber. Dense sage and greasewood undergrowth on 80.00 chs.
	S. 89° 58' E. on a random line bet. secs. 28 and 33.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect N. and S. line 23 lks. S. of cor. of secs. 27, 28 33 and 34. May 24, 1900: At this cor. I set off 37° 49' 29" N. on the lat. arc; 20° 50' N. on the decl. arc; and at 4 ^h p.m., 1. m.t., determine a true meridian with the solar. Thence I run S. 89° 52' W. on a true line, bet. secs. 28 and 33. Over nearly level land; through dense greasewood and sage undergrowth; in sandy and clay soil.
40.10	Set a lava stone 14x12x4 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
80.20	The cor. of secs. 28, 29, 32 and 33. Land nearly level, gently sloping N. and N.W. Soil sandy and clay; 2nd. rate. No timber. Dense greasewood and sage undergrowth on 80.20 chs. May 24, 1900.

Chains	<p>May 25, 1900: At 9^h a.m., l.m.t., I set off $37^{\circ}40'29''$ N. on the lat. arc; $20^{\circ}58'1''$ N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 28, 29, 32 and 33, already described.</p> <p>Thence I run</p> <p>N. $0^{\circ}3'$ W. bet. secs. 28 and 29.</p> <p>Gradually descend over nearly level land; through dense greasewood and sage undergrowth; in clay soil.</p>
40.00	<p>Set a trachyte stone 18x8x4 ins., 12 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, W. of cor.</p>
80.00	<p>Set a porphyry stone 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on the S. and 4 notches on the E. edges; dug pits 18x18x12 ins., in each sec., $5\ 1/2$ ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.</p> <p>Land nearly level, gently sloping N. and N.W.</p> <p>Soil, clay slightly intermixed with sand; 2nd. rate. No timber. Dense greasewood and sage undergrowth on 80.00 chs.</p>
	<p>N. $89^{\circ}52'$ E. on a random line bet. secs. 21 and 28.</p>
40.00	<p>Set temp. $1/4$ sec. cor.</p>
80.18	<p>Intersect N. and S. line at cor. of secs. 21, 22, 27 and 28</p> <p>Thence I run</p> <p>S. $89^{\circ}52'$ W. on a true line bet. secs. 21 and 28.</p> <p>Over nearly level land; through dense greasewood and sage undergrowth; in sandy-clay soil.</p>
40.09	<p>Set a granite stone 16x8x3 ins., 11 ins. in the ground, for $1/4$ sec. cor., marked $1/4$ on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, $3\ 1/2$ ft. base, $1\ 1/2$ ft. high, N. of cor.</p>
80.18	<p>The cor. of secs. 20, 21, 28 and 29.</p> <p>Land nearly level, gently sloping N. and N.W.</p> <p>Soil, sandy and clay; 2nd. rate. No timber. Dense greasewood and sage undergrowth on 80.18 chs.</p>

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. N.0° 3' W., bet. secs. 20 and 21.
Over nearly level land; through dense greasewood and sage undergrowth; in sandy clay soil.
- 19.00 Enter low rolling sand knolls bears N.30° E. and S.W.
- 40.00 Set a granite stone 15x10x5 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
- 44.00 Leave sand knolls bears N.35° E. and S.35° W.; thence over nearly level land.
- 80.00 Set a trachyte stone 21x6x6 ins., 16 ins. in the ground, for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on the S. and 4 notches on the E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land, rolling sand knolls; and nearly level land, gently sloping N. and N.W.
Soil, sandy clay; 2nd. rate. No timber.
Dense greasewood and sage undergrowth 80.00 chs.
May 25, 1900: At this cor. I set off 20° 59' N. on the decl. arc; and, at 11^h 57^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 51' 13" N.
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- N.89° 52' E. on a random line bet. secs. 16 and 21.
- 40.00 Set temp. 1/4 sec. cor.
- 80.16 Intersect N. and S. line 2 lks. N. of cor. of secs. 15, 16, 21 and 22.
Thence I run
S.89° 53' W. on a true line bet. secs. 16 and 21.
Over nearly level land; through dense greasewood and sage undergrowth; in clay soil.
- 40.08 Set a granite stone 22x10x8 ins., 17 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
- 80.16 The cor. of secs. 16, 17, 20 and 21.
Land nearly level, gently sloping N. and N.W.
Soil, clay; 2nd. rate. No timber.

Chains	Dense greasewood and sage undergrowth 80.16 chs.
	N.0° 3' W. bet. secs. 16 and 17. Descend gradually over nearly level land; through dense greasewood and sage undergrowth; in clay soil.
40.00	Set a granite stone 25x10x6 ins., 19 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
67.50	Trail bears N.80° E. and S.80° W.
80.00	Set a granite stone 17x12x8 ins., 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17, marked with 4 notches on the S. and E. edges; dug pits 18x18x12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. and N. W. Soil, clay; 2nd. rate. No timber. Dense greasewood and sage undergrowth 80.00 chs.
	N.89° 53' E. on a random line bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
80.20	Intersect N. and S. line 2 lks. S. of cor. secs. 9, 10, 15 and 16. Thence I run S.89° 52' W. on a true line bet. secs. 9 and 16. Over low clay knolls; through dense sage and greasewood undergrowth; in clay sandy soil.
16.00	Leave clay knolls bears N.30° E. and S.30° W.; thence over nearly level land.
40.10	Set a trachyte stone 17x10x8 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
80.20	The cor. of secs. 8, 9, 16 and 17.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. Land rolling in clay knolls; W. of knolls nearly level gently sloping N.

Soil clay and sandy; 2nd. rate. No timber.

Dense greasewood and sage undergrowth 80.20 chs.

N.0° 3' W. bet. secs. 8 and 9.

Over nearly level land; through dense greasewood undergrowth; in clay soil slightly intermixed with alkali.

33.75 Trail bears N.E. and S.W.

40.00 Set a granite stone 18x14x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a granite stone 17x12x8 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 the E. edges; dug pits 18x18x12 ins., in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. and N.W. Soil, clay with slight indications of alkali; 2nd. rate. No timber. Dense greasewood undergrowth 80.00 chs.

May 25, 1900.

N.89° 52' E. on a random line bet. secs. 4 and 9.

40.00 Set temp. 1/4 sec. cor.

80.18 Intersect N. and S. line 4 lks. N. of cor. secs. 3, 4, 9, and 10.

Thence, I run

S.89° 54' W. on a true line bet. secs. 4 and 9.

Over nearly level land; through dense greasewood undergrowth; in clay and sandy soil.

7.70 Trail bears S.70° W. and N.70° E.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.

- 19.75 Trail bears S.50° W.and N.50° E.
- 30.00 Storm water pond about 10.00 chs.long with course N.E.and S.W.,and 4.00 chs.wide ,bears S.about 15.00 chs.
- 40.09 Set a trachyte stone 14x10x3 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.,E.and W.of stone 3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high, N.of cor.
- 44.03 Trail bears S.35° W.and N.35° E.
- 44.25 Old road bears S.35° W.and N.35° E.
- 51.40 Trail bears N.and S.
- 73.60 Old road bears N.55° W.and S.55° E.
- 77.30 Trail bears N.55° W.and S.55° E.
- 80.18 The cor.of secs.4,5,8 and 9.
Land nearly level,gently sloping N.W.
Soil clay,with very little sand and some indications of alkali;2nd.rate. No timber.
Dense greasewood undergrowth 80.18 chs.

- 40.00 N.0° 3' W.on a random line bet.secs.4.and.5.
Set temp.1/4 sec.cor.
- 79.00 Intersect N.bdy.of Tp.,2.60 chs.,N.89° 58' E.of cor. secs.32 and 33,T.33 S.,R.16 W.,heretofore described. Set a gray granite stone 16x10x4 ins.,11 ins.in the ground,for closing cor.of secs.4 and 5,marked C.C.on S.,with 4 grooves on E.and 2 grooves on W.faces ;dug pits 24x18x12 ins.,crosswise.on each line E.and W.,3 ft.,and S.of stone 7 ft.dist.;and raised a mound of earth,4 ft.base,2 ft.high,S.of cor.; thence I run S.10° 3' E.on a true line bet.secs.4 and 5.
Over nearly level land;through dense greasewood and sage undergrowth;in clay.and sandy soil.
- 10.97 Trail bears N.50° W.and S.50° E.
- 34.25 Trail bears N.50° W.and S.50° E.
- 39.00 Set a granite stone 16x10x4 ins.,11 ins.in the ground

Subdivisions of T.34 S., R.16 W. -Continued.

Chains. for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

75.70 Old road, bears N. 55° W. and S. 55° E.

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

Land nearly level, gently sloping N. and N.W.

Soil, clay and sandy; 2nd. rate. No timber.

Dense greasewood and sage undergrowth 79.00 chs.

May 26, 1900: At the cor. secs. 5, 6, 31 and 32, on the S. bdy. of Tp., heretofore described, I set off 21° 9' N. on the decl. arc; and, at 11^h 57^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 49' N.

N. 0° 3' W. bet. secs. 31 and 32.

Over nearly level land; through dense greasewood and sage undergrowth; in clay loamy soil.

40.00 Set a granite stone 19x10x10 ins., 15 ins. in the ground for 1/4 sec cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

63.90 Road from Cedar City to Modena and Desert Springs bears S. 85° E. and N. 85° W.

80.00 Set a granite stone 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on the S. and 5 notches on the E. edges; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land nearly level, gently sloping N.

Soil, clay; loam; 1st. rate. No timber.

Dense greasewood and sage undergrowth 80.00 chs.

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

Chains.

40.00 Set temp. 1/4 sec. cor.

80.08 Intersect N. and S. line 30 lks. N. of cor. secs. 28, 29, 32 and 33.

Thence 1 run

N. $89^{\circ}45'$ W. on a true line bet. secs. 29 and 32.

Over nearly level land; through dense greasewood and sage undergrowth; in clay loamy soil.

40.04 Set a lava stone 17x10x5 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

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

Land nearly level, gently sloping N. and N.W.

Soil, clay loamy; 1st. rate. No timber.

Dense greasewood and sage undergrowth 80.08 chs.

Knowing from previous resurvey of S. bdy. of sec. 31, that the bearing is N. $89^{\circ}39'$ W., 1 run

N. $89^{\circ}39'$ W. on a random line bet. secs. 30 and 31.

40.00 Set temp. 1/4 sec. cor.

79.00 Intersect W. bdy. of Tp. 14 lks. S. of cor. secs. 25, 30, 31 and 36, which is a granite 10x12x6 ins. above ground, marked and witnessed as described by the Surveyor General.

Thence 1 run

S. $89^{\circ}33'$ E. on a true line bet. secs. 30 and 31.

Over nearly level land; through dense greasewood and scattering sage undergrowth; in clay soil.

7.03 Trail bears S. 10° W. and N. 10° E.

39.00 Set a granite stone 17x10x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

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

Land nearly level, gently sloping N. and W.

Soil, clay; 2nd. rate. No timber.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. Dense greasewood undergrowth 79.00 chs.

May 26, 1900: At 4^h 27^m p.m., l.m.t., I set off 37° 40' 20" N. on the lat. arc; 21° 12' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 29, 30, 31 and 32.

Thence I run

N. 0° 3' W. bet. secs. 29 and 30.

Over nearly level land; through dense greasewood undergrowth; in clay soil.

40.00 Set a granite stone 15x10x5 ins., 10 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set a granite stone 18x10x5 ins., 12 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, marked with 2 notches on the S. and 5 notches on the E. edges; dug pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. and W. soil, clay; 2nd. rate. No timber.

Dense greasewood undergrowth 80.00 chs.

May 26, 1900.

May 28, 1900: At 7^h 30^m a.m., l.m.t., I set off 37° 50' 20" N. on the lat. arc; 21° 28' 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

S. 89° 45' E. on a random line bet. secs. 20 and 29.

40.00 Set temp. 1/4 sec. cor.

80.14 Intersect N. and S. line 11 lks. N. of cor. of secs. 20, 21, 28 and 29.

Thence I run

Subdivisions of T.34 S.,R.16 W.-Continued.

Chains	N.89° 40' W.on a true line bet.secs.20 and 29. . Over nearly land;through dense sage and greasewood undergrowth;in sandy and clay soil.
40.07	Set a granite stone 15x8x4 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18x12 ins.E.and W.of stone 3 ft.dist.;and raised a mound of earth 3 1/2 ft.base,1 1/2 ft.high,N.of cor.
80.14	The cor.of secs.19,20,29 and 30. Land nearly level,gently sloping N.and W. Soil,sandy and clay;2nd.rate. No timber. Dense sage and greasewood undergrowth 80.14 chs.
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	N.89° 33' W.on a random line bet.secs.19 and 30.
40.00	Set a temp.1/4 sec.cor.
79.35	Intersect W.bdy.of Tp.8 lks.S.of cor.secs.19,24,25 and 30,which is a granite stone 5x15x 8 ins.above ground,marked and witnessed as described by the Surveyor General. Thence I run
	S.89° 30' E.on a true line bet.secs.19 and 30. Over nearly level land;through dense greasewood undergrowth;in clay soil.
3.48	Trail bears N.E.and S.W.
39.35	Set a granite stone 18x8x5 ins.,12 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18 x 12 ins.,E.and W.of stone,3 ft.dist.;and raised a mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
75.87	Trail bears N.E.and S.W.
79.35	The cor.of secs.19,20,29 and 30. Land nearly level,gently sloping N.W.and W. Soil,clay;2nd.rate. No timber. Dense greasewood undergrowth 79.35 chs.
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	N.00 3' W.bet.secs.19 and 20. Over nearly level land;through dense greasewood and

Subdivisions of T.34 N., R.16 W.-Continued.

Chains.	sage undergrowth; in clay soil.
4.24	Trail bears N.60° E. and S.60° W.
40.00	Set a granite stone 12x10x5 ins., 8 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
40.85	Trail bears N.E. and S.W.
45.40	Trail bears N.25° E. and S.W.
80.00	Set a granite stone 18x10x6 ins., 12 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; dug pits 18x18x12 ins. in each sec., 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor. Land nearly level, gently sloping N. and N.W. Soil, clay; 2nd. rate. No timber. Dense sage and greasewood undergrowth 80.00 chs. May 28, 1900: At this cor. I set off 21° 29' N. on the decl. arc; and, at 11 ^h 57 ^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 51' 13" N.
	S.89° 40' E. on a random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.14	Intersect N. and S. line 4 lks. S. of cor. of secs. 16, 17, 20 and 21. Thence I run N.89° 42' W. on a true line bet. secs. 17 and 20. Over nearly level land; through dense greasewood undergrowth; in clay soil.
20.00	Enter scattering sage and greasewood undergrowth bears N. and S.; leave dense greasewood undergrowth.
40.07	Set a granite stone 12x10x6 ins., 8 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
70.00	Enter dense greasewood undergrowth bears N. and S.; leave scattering greasewood undergrowth.
80.14	The cor. of secs. 17, 18, 19 and 20.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.	Land nearly level, gently sloping N. and N.W.
	Soil, clay; 2nd. rate. No timber.
	Dense greasewood undergrowth on 30.14 chs.
40.00	N. 89° 30' W. on a random line bet. secs. 18 and 19. Set temp. 1/4 sec. cor.
79.61	Intersect W. bdy. of Tp. 12 lks. S. of cor. of secs. 13, 18, 19 and 24, which is a limestone 6x12x7 ins. above ground, marked and witnessed as described by the Surveyor General.
	Thence I run S. 89° 25' E. on a true line bet. secs. 18 and 19. Over nearly level land; through dense sage and greasewood undergrowth; in clay soil.
12.86	Trail bears N.E. and S.W.
39.61	Set a granite stone 17x8x4 ins., 12 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.
79.61	The cor. of secs. J7, 18, 19 and 20.
	Land nearly level, gently sloping N. and N.W.
	Soil, clay; 2nd. rate. No timber.
	Dense greasewood or sage undergrowth on 79.61 chs.
	N. 0° 3' W. bet. secs. 17 and 18.
	Over nearly level land; through dense sage and greasewood undergrowth; in clay and sandy soil.
40.00	Set a granite stone 20x12x10 ins., 15 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.
42.37	Trail bears N.E. and S.W.
64.40	Trail bears N.E. and S.W.

Subdivisions of T.34 S., R.16 W.-Continued.

Chains.

- 80.00 Set a volcanic stone 18x12x4 ins., 12 ins. in the ground, for cor. of secs. 7, 8, 17 and 18, marked with 4 notches on the S. and 5 notches on the E. edges; dug pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.
Land nearly level, gently sloping N. and N.W.
Soil sandy and clay; 2nd. rate. No timber.
Dense sage or greasewood undergrowth 80.00 chs.
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- S. 89° 42' E. on a random line bet. secs. 8 and 17.
- 40.00 Set temp. 1/4 sec. cor.
- 80.18 Intersect N. and S. line 2 lks. S. of cor. of secs. 8, 9, 16 and 17.
Thence I run
N. 89° 43' W. on a true line bet. secs. 8 and 17.
Over nearly level land; through dense greasewood undergrowth; in clay and sandy soil.
- 40.09 Set a granite stone 15x10x6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high; N. of cor.
- 80.18 The cor. of secs. 7, 8, 17 and 18.
Land nearly level, gently sloping N. and W.
Soil, clay and sandy; 2nd. rate. No timber.
Dense greasewood undergrowth on 80.18 chs.
May 28, 1900.
-
- N. 89° 25' W. on a random line bet. secs. 7 and 18.
- 40.00 Set temp. 1/4 sec. cor.
- 79.73 Intersect W. bdy. of Tp. 8 lks. N. of cor. of secs. 7, 12, 13 and 18, which is a limestone 5x15x8 ins. above ground, marked and witnessed as described, by the

Subdivisions of T.34 S., R.16 W.-Continued.

Chains, Surveyor General.

Thence I run

S.89° 28' E. on a true line bet. secs. 7 and 18.

Over nearly level land; through dense sage and grease-wood undergrowth; in clay and sandy soil.

3.23 Trail bears N.65° E. and S.65° W.

39.73 Set a granite stone 14x10x5 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; dug pits 18x18x12 ins., E. and W. of stone 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

79.73 The cor. of secs. 7, 8, 17 and 18.

Land nearly level, gently sloping N. and N.W.

Soil, mostly clay, with streaks of sand; 2nd. rate. No timber.

Dense greasewood or sage undergrowth on 79.73 chs.

N.0° 3' W. bet. secs. 7 and 8.

Over nearly level land; through dense sage and grease-wood undergrowth; in sandy and clay soil.

40.00 Set a granite stone 15x10x5 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raised a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set an iron stone 14x12x10 ins., 10 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, marked with 5 notches on the S. and E. edges; dug pits 18x18x12 ins., in each sec. 5 1/2 ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land nearly level, gently sloping N. and N.W.

Soil, sandy and clay; 2nd. rate. No timber.

Dense sage or greasewood undergrowth on 80.00 chs.

S.89° 43' E. on a random line bet. secs. 5 and 8.

40.00 Set temp. 1/4 sec. cor.

80.14 Intersect N. and S. line 3 lks. S. of cor. of secs. 4, 5, 8 and 9.

Subdivisions of T.34 S., R.16 W.-Continued.

- Chains. Thence I run
N.89° 44' W.on a true line bet.secs.5 and 8.
Over nearly level land;through dense greasewood and
sage undergrowth;in clay and sandy soil.
- 40.07 Set a granite stone 16x8x5 ins.,11 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18
x12 ins.,E.and W.of stone 3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base, 1 1/2 ft.high,N.of cor.
- 80.I4 The cor.of secs.5,6,7 and 8.
Land nearly level,gently sloping N.and N.W.
Soil,clay with indications of alkali,and sandy;2nd.
rate. No timber.
Dense greasewood or sage undergrowth on 80.I4 chs.
May 29,1900:At this cor.I set off 21° 39' N.on the
decl.arc;and,at 11^h.57^m,a.m.,l.m.t., observe the sun
on the meridian;the resulting lat is 37°53' N.
-
- 40.00 N.89° 28' W.on a random line bet.secs 6 and 7.
Set temp.1/4 sec.cor.
- 79.94 Intersect W.bdy.of Tp.14 lks.N.of cor.of secs.1,6,7
and 12,which is a limestone 4x12x9 ins.above ground,
marked and witnessed as described by the Surveyor
General.
- Thence I run
S.89° 34' E.on a true line bet.secs.6 and 7.
Over nearly level land;through dense sage and grease-
wood undergrowth;in sandy and clay soil.
- 39.94 Set a granite stone 15x10x6 ins.,10 ins.in the ground
for 1/4 sec.cor.,marked 1/4 on N.face;dug pits 18x18
x12 ins.,E.and W.of stone 3 ft.dist.;and raised a
mound of earth,3 1/2 ft.base,1 1/2 ft.high,N.of cor.
- 55.40 Trail bears N.and S.
- 79.94 The cor.of secs.5,6,7 and 8.
Land nearly level,gently sloping N.and N.W.
Soil,sandy and clay;2nd.rate. No timber.
Dense sage or greasewood undergrowth on 79.94 chs..

Subdivisions of T.34 S., R.16 W.-Continued.

Chains. $7.0^{\circ} 3'$ W. on a random line bet. secs. 5 and 6.

46.00 Set temp. $1/4$ sec. cor.

78.60 Intersect N. bdy. of Tp. 2.70 chs. N. $89^{\circ} 58'$ E. of cor. of secs. 31 and 32, T. 33 S., R. 16 W., heretofore described. Set a granite stone $16 \times 11 \times 10$ ins., 11 ins. in the ground, for closing cor. of secs. 5 and 6, marked C.C. on S., with 5 grooves on E. and 1 groove on W. faces; dug pits $24 \times 18 \times 12$ ins. crosswise on each line E. and W., 3 ft., and S. of stone 7 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Thence I run

$5.0^{\circ} 3'$ E. on a true line bet. secs. 5 and 6.

Over nearly level land; through dense sage and greasewood undergrowth; in sandy and clay soil.

38.60 Set a granite stone $16 \times 10 \times 4$ ins., 11 ins. in the ground for $1/4$ sec. cor., marked $1/4$ on W. face; dug pits $18 \times 18 \times 12$ ins., N. and S. of stone 3 ft. dist.; and raised a mound of earth, $3 \frac{1}{2}$ ft. base, $1 \frac{1}{2}$ ft. high, W. of cor.

78.60 The cor. of secs. 5, 6, 7 and 8.

Land nearly level, gently sloping N. and N.W.

Soil, sandy and clay, with slight indications of alkalinity; 2nd. rate. No timber.

Dense greasewood and sage undergrowth on 78.60 chs.

Knowing from survey already made that the boundary of sec. 6 will not close, I retrace the W. bdy. of same as follows:

May 29, 1900: At 4^h P.M., 1. m. t., I set off $37^{\circ} 53'$ N. on the lat. arc; $21^{\circ} 41'$ E. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 1, 6, 7 and 12, heretofore described.

Thence I run N. bet. secs. 1 and 6.

38.90 The old $1/4$ sec. cor., a marked stone in a mound of stone, marked and witnessed as described by the Surveyor General, bears W. 21 lks.

78.20 Intersect the N. bdy. of the Tp. at 46 lks. E. of the cor. of Tps. 33 and 34 S., R. 16 and 17 W. heretofore descri-

Subdivisions of T.34 S.,R.16 W.-Continued.

Chains. bed;therefore the course of this line is N.0° 20' ✓
W.

May 29,1900.

G E N E R A L D E S C R I P T I O N .

This township lies in the Escalante Desert, which is a part of the Great American Desert. The surface is almost level plain, with small ranges of rolling sand and clay knolls near the central part of the township.

The soil is generally rich consisting of clay and sandy soil, and clay and sandy loams, with indications of alkali in the central and North Eastern parts.

There is no timber of any kind in the township. The ground is covered with an abundance of sage, greasewood and rabbit brush undergrowth, and with shadscale, bud sage and desert weed shrubbery, and native bunch grasses found generally on the low sand knolls.

No rivers, streams, springs, lakes or other natural bodies of water are in the township. Two storm water ponds fed by rains and melting snows are situated in secs. 9 and 11, which afford watering places during the stormy seasons for bands of wild horses, herds of antelope, and for horned stock grazing in this and adjoining townships and distant mountains and foot hills. Flocks of sheep ranged in this and the adjoining townships are watered at these ponds and at surface wells of pure fresh water in secs. 31 and 36 of Tps. 33 S., Ranges 15 and 16 W.

The water in the ponds are slightly impregnated with alkalines.

I dug a surface well on the N. side of the pond in sec. 11, finding clear, and apparently pure fresh water at a depth of about 12 feet, but the water proved to be very salty and unfit for domestic use.

No minerals of any kind, nor building stones, limestones or quarries are to be found in the township.

The completed line of the Utah and Pacific R.R.

Subdivisions of T.34 S., R.16 W.-Continued..

running N.E. and S.W. from Milford, Utah to Uvada near the State line passes about 45.00 chs. W. from the N.W. corner of the township; and the main wagon road from Cedar City, by way of Antelope Springs, to Modena, Desert Springs and Pioche runs Westerly across the South tier of sections in this township.

There are no settlers in the township, and none of the lands are under cultivation.

Mayhew H. Galley

U.S. Deputy Surveyor.

May 29, 1900.

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Retracement of W.bdy.of T.34 S.,R.16 W.

Chains.

Knowing from surveys already made that the exteriors of the Township will not close,I retrace the W.boundary of the Township as follows:

May 30,1900:At the cor.of tps.34 and 35 S.,Rs.16 and 17 W.,heretofore described in notes of subdivisions of T.35 S.,R.16 W.,Book V

I set off 37° 49' N.on the lat.arc;21° 47' N.on the declination arc;and,at 8^h a.m.,l.m.t.,determine with the solar a true meridian.

Thence I run

North,on retracement line bet.secs.31 and 36.

40.10 Fall 10 lks.E.of the old 1/4 sec.cor.,which is a marked stone deposited 12 ins.in the ground,marked and witnessed as described by the Surveyor General.

80.22 Fall 25 lks.F.of the old cor.of secs.25,30,31 and 36, heretofore described.

The course of this line is therefore N.0° 10' W.

From the cor.of secs.25,30,31 and 36,I continue retracement of W.bdy.as follows:

North,bet.secs.25 and 30.

40.07 Fall 13 lks.E.of the old 1/4 sec.cor.,which is a granite 5x10x10 ins.above ground,marked and witnessed as described by the Surveyor General.

80.12 Fall 40 lks.E.of the old.cor.of secs.19,24,25 and 30, heretofore described.

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

From the cor.of secs.19,24,25 and 30,I continue retracement of W.bdy.as follows:

North,bet.secs.19 and 24.

40.09 Fall 17 lks. E.of the old 1/4 sec.cor.,which is a marked stone deposited 12 ins.in the ground,marked and witnessed as described by the Surveyor General.

80.16 Fall 33 lks.E.of the cor.of secs.13,18,19 and 24,

Chains. heretofore described.

The course of this line is therefore $N.0^{\circ} 14' W.$

From the cor. of secs. 13, 18, 19 and 24, I continue retracement of W. bdy. as follows:

North, bet. secs. 13 and 18.

39.99 Fall 10 lks. E. of the old $1/4$ sec. cor., which is a marked stone, deposited, marked and witnessed as described by the Surveyor General.

79.96 Fall 21 lks. E. of the old cor. of secs. 7, 12, 13 and 18, heretofore described.

The course of this line is therefore $N.0^{\circ} 9' W.$

May 30, 1900: At this cor. I set off $21^{\circ} 48' N.$ on the decl. arc; and, at 12^h M., l. m. t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 52' N.$

From the cor. of secs. 7, 12, 13 and 18, I continue retracement of the W. bdy. as follows:

North bet. secs. 7 and 12.

39.98 Fall 13 lks. E. of the old $1/4$ sec. cor., which is a marked stone deposited, marked and witnessed as described by the Surveyor General.

79.94 Fall 28 lks. E. of the cor. of secs. 1, 6, 7 and 12, heretofore described.

The course of this line is therefore $N.0^{\circ} 12' W.$

May 30, 1900.

Mayhew H. Galley
U. S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Township No. 34 South, Range No. 16 West.

Meridian Salt Lake showing the respective capacities in which they acted:

- Max W. Woodbury, Chainman.
- Robert A. Thorley, Chainman.
- David Dix, Moundman.
- Thomas Urie, Moundman.
- David Dix, Axman.
- Thomas Urie, Axman.
- William Macfarlane, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley

....., United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Township No. 34 South, Range No. 16 West,

..... of the Salt Lake Base and meridian, State of Utah,

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

- Max W. Woodbury, Chainman.
- Robert A. Thorley, Chainman.
- David Dix, Moundman.
- Thomas Urie, Moundman.
- David Dix, Axman.
- Thomas Urie, Axman.
- William Macfarlane, Flagman.

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

Senora C. Dalley
Notary Public.



My Commission Expires
March 20th, 1903

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, 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 23rd day of January, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisions of Township No. 34 South, Range No. 16 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 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.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 30 day of October, 1899 } 1900.



Jacob B. Blair
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 17, 1900

The foregoing field notes of the survey of the Subdivisions of Township No. 34 South, Range No. 16 West of the Salt Lake Base & Meridian, Utah

executed by Mayhew H. Dalley, under his contract No. 224 dated January 23, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward Henderson
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