Preliminary Oaths of Assistants.

We, _____

_____

_____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; 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 distance 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 _____

_____

_____

_____

_____

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

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

_____

_____

We, _____

_____

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

_____

_____

_____

_____

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

_____, *Axeman.*

_____, *Axeman.*

_____

_____

_____

Subdivision of T 38 S. R 10 W.

Chains	
	Survey commenced September 9th 1895 & executed with a W & L. E. Gurley, light mountain transit (No number) with Solar attachment. The horizontal limb is provided with 2 double Verniers placed opposite to each other, reading to single minutes of arc, which is also the least current on the verniers of the latitude & declination arcs.
	The instrument was examined tested on the true meridian at Salt Lake City, found correct & was approved by the Surveyor general for Utah May 14th 1895. The instrument was examined & tested on a true meridian determined by Polaris observations Sept 5th 1895. The details of which may be found at the beginning of the field notes of the survey of the S. bdy. T. 38 S. R 10 W.
	From the Cor. of T. 38 & 39 S. R 9 & 10 W. which is described in the field Notes of the Survey of the S. Boundary of this Tp. I run N. on the E. boundary of Sec 36 & at 40.18 fall 3 lks. E. of 1/4 Sec. Cor. & at 80.38 chs. fall 1 lk E. of the Cor. of Secs. 25. 30. 31 & 36 therefore the line bears N. Therefore the bearing & measurement of this line is correct within the allowable limit of error.
	I commence at the Cor. of Secs 1. 2. 35 & 36 on the S. boundary of the Tp. which I re-established Sept. 7th 1895. At this cor. at 9 h 30 m a.m. l.m.t. I set off 37° 38' N on the lat. arc. 5°15' N on the decl. arc and determine a true meridian with the Solar
	Then I run, N 0°01 W bet. Secs 35 & 36
	Over steep ascending land through oak brush
3.50	Top of Spur about 50 ft. above Cor. bears E & W. Descend.
35.50	Bottom of hollow about 100 ft. below top of Spur drains E. ascend.
40.00	Set a Sandstone 16 x 12 x 6 ins 11 ins. in the ground for 1/4 Sec Cor. marked 1/4 on W face & raise a mound of Stone 2 ft base 1½ ft. high W. of Cor. pits impracticable.
	This 1/4 Sec. Cor. is about 40 ft. below the Cor. to Secs. 1. 2. 35 & 36.
63.50	A ravine 6 ft. deep 80 lks. wide drains E.
65.25	Top of E. Slope of Spur about 100 ft. above the last Sec. Cor. descend
70.00	Bottom of ravine about 100 ft. below top of E slope of Spur. drains S.E. Begin very steep ascent to foot of impassable cliff.
72.25	At this point it becomes impossible to continue the chaining on account of very precipitous & stony ascent to foot of high cliff, therefore I set a Sandstone 30 x 12 x 8 ins. 23 ins. in the ground for witness to Cor of Secs 25. 26. 35 & 36 marked W.C. on N.E. face with 1 notch on both S & E. edges & raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. pits impracticable
	Then to determine the distance to the top of the cliff. I set a plaster line on top of the cliff & as it is impossible to measure a base line from this point on account of the precipitous & stony

736

Subdivision of T. 38 S. R. 10 W. Continued.

chains	
	Condition of the land I set another flint at the W. end of my prospective base line, which from this point bears N 63°01' W. then from the flint set an line on top of the cliff I measure my base line S 60°15' W 14.20 chains to the flint already set at W. end of base line, from which point the flint set at witness cor. below the cliff bears S 63°01 E. therefore the angles taken in order of measurement are respectively 63°, 60°16' and 56°44' their sum being 180°. I therefore compute the distance to the top of the cliff as follows:
	$\frac{\sin 56°44'}{\sin 63°} \times$ base or $\frac{0.8368 \times 14.20}{0.8910} = 13.32$ chs. 72.25 + 13.32 = 85.57 chs or 5.57 chs N of the point for Cor. of Secs. 25, 26, 35 & 36
80.00	Corner falls on cliff not set.
	Land Mountainous.
	Soil Stony and clay. 3rd & 4th rate, No timber Oak brush 80.00 chs. mountainous land 80.00 chs
	And as it is impracticable to run a random line E. from this point on account of the rough, stony & precipitous condition of the land, being unfit for subdivision I continue my line from this point N 0°01' W. between Secs 25 & 26
	Over ascending land through dwarf oak brush.
5.00	Top of cliff about 300 ft above witness cor. of Secs. 25, 26, 35 & 36. bears S 60° W.
5.57	I set a Sandstone 28 X 12 X 6 ins. 21 ins. in the ground for Witness Cor. of Secs 25, 26, 35 & 36 marked W.C. on N.E. face with 1 notch on both S. & E. edges; & raise a mound of stone 2 ft base 1½ ft. high W. of Cor. pits impracticable.
16.00	Top of spur about 60 ft. above top of cliff. bears E. & W. Descend.
30.00	Bottom of hollow, about 50 ft. below top of spur draws E. ascend.
	Enter Scattering quaking asp, bears E & W.
32.50	Top of ridge about 15 ft. above hollow bears E & W. Descend.
39.40	Lattie Rawstens log Cabin 1.90 chs. West.
40.00	Set a Sandstone 16 x 14 x 4 ins. 11 ins. in the ground for ¼ Sec. Cor. Marked ¼ on W. face; & raise a mound of stone 2 ft. base 1½ ft high W. of Cor. pits impracticable from which a quaking 4 ins. diam. bears S 60° W 1.70 chs. dist marked ¼ S.B.T.
	A quaking asp 5 ins diam. bears N 44° W. 1.95 chs. dist. marked ¼ S.B.T.
67.50	Bottom of gulch 75 ft. below ¼ Sec Cor. draws S 60° E; ascend
68.00	Leave Scattering quaking asp bears E. & W.
79.00	Top of cliff 8.90 chs E. brs. S 16° E & N 10° W
80.00	Set a Sandstone 30 X 12 X 12 ins. in the ground for Cor. of Secs 23, 24, 25 & 26. marked with 2 notches on S & 1 notch on E edges; dig pits 18 X 18 X 12 ins. in each Sec. 5½ ft. dist.

Subdivision of T 38 S. R 10 W. Continued.

Chains	
	And raise a mound of earth 4 ft. base 1½ ft. high W. of Cor.
	This Sec Cor. is about 25 ft. below the last ¼ Sec Cor.
	Land Mountainous 30.00 chs. Walking bench 50.00 chs., soil N. 75 chs., clay, Sand & loam, S. 5.00 chs. Stone 1st & 4th rates.
	Timber, S cottonwood quaking asp
	Under growth, dense oak on 80.00 chs.
	Mountainous land 30.00 chs.
	Note: On account of a deep gulch with high vertical cliffs on either side which occupies the greater portion of the mile to the East & which makes it impracticable to survey a random line to the East, I leave this line unsurveyed
	N 0°01' W. bet. Secs. 20 & 24
	Over ascending land through dense oak brush.
3.50	Leave oak brush enter S cottonwood quaking asp timber, bears E. & W.
13.00	Leave quaking asp timber, Enter oak brush bears E. & W.
18.50	Top of Spur, about 70 ft. above Sec. Cor. bears E & W. Descend.
22.50	Enter pine timber bears E & W.
23.68	A pine 11 ins. diam on line S mark with 2 notches on N & S. sides
25.16	Top of Cliff brs. N 60° W. & S. 60° E 4.00 chs
	Note:- The point for ¼ Sec Cor. falls in a gulch, where it is impracticable to place it on account of the rough stony precipitous condition of the land therefore
25.14	Set a sandstone 26 x 4 x 8 ins. 19 ins. in the ground for Witness Cor. to ¼ Sec. Cor. bet Secs 23 & 26 marked W.C. ¼ on W. face & raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. pits impracticable, from which a pine 11 ins. diam bears S. 2° E. 81 lks. dist. marked W.C. ¼ S. B.T.
	A pine 11 ins. diam bears S. 0° 00' E. 2.58 chs. dist. marked W.C. ¼ S. B.T.
	This witness cor. is about 40 ft. above the last Sec. Cor.
	Note:- From this point it is impossible to measure a base line to determine the distance across the gulch, therefore from a point on line 18.50 chs. N of Cor. of Secs. 23.24.25 & 26. I set a flag on line on the N.E. bank of the gulch; then measure a base line S 89° 59' W. 60.00 chs to a point from which the flag bears N 46° 35' E.
	From the flag the west end bears S 46° 35' W.

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

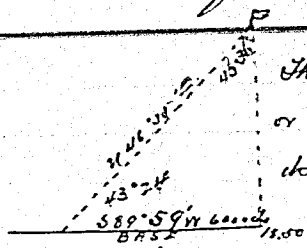
BLANK

PAGE

~~Pages~~ Pages 758 through 767 do not exist.

Subdivision of T. 38 S. R 10 W – Continued.

Chains



Therefore the distance is true 43.24 x base or 0.94565 x 60.00 chs = 56.74 chs making the whole distance from corner of Secs 23.24.25 & 26. 18.50 + 56.74 =

75.74 To the N.E. bank gulch bears N.W. & S.E.

Note:- In the bottom of the gulch is a branch of the Verg in river about 1000 ft. below witness corner.

Stream 10 ins deep 20 lks wide. Current swift. water, clear & Cold - Course S.E.

Heavy pine timber in gulch.

Thence ascend through dense oak brush & scattering pines.

76.00 Leave pines. bears S.E. & N.W.

77.00 Top of ascent bears E. & W. Descend

80.00 Set a Sand Stone 18 x 8 x 6 ins. 12 ins in the ground for Cor of Secs 13. 14. 23 & 24 marked with 3 notches on S & 1 Notch on E. edge; and raise a mound of Stone 2 ft. base 1½ ft. high W. of Cor. pits improvable from which;

A lone cedar 11 ins. diam bears S 72° W. 2.77 chs. marked T.38S.R 10W.S 23 B.T.

A lone pine 13 ins. diam. bears N.65° W. 2.45 chs. dist. marked T. 38 S. R 10 W. S 14 B.T.

No other trees within limit

This Sec. Cor is about the same elevation as the last Witness Corner –

Land, Mountainous.

Soil, 120 chs. clay Sand & loam; N.60 chs stony 1st & 3rd Rates

Timber, pine & quaking asp.

Undergrowth, Scrub oak on 80.00 chs

Mountainous land 80.00 chs.

August 4th 1895 at 11h 57m a.m. L.m.t. the sky is over cast – and a Solar observation is impossible.

Note: the land to the East is rough stony & broken with deep gulches & is of no value for agricultural or grazing purposes therefore I Continue my line N

N 0° 01 W. bet. Secs 13 & 14

Over gradually descending land, through dense Oak brush

2.50 Bottom of descent – about 10 ft. below Sec. Cor. bears E. & W.

chains. Begin gradual ascent:

25.50 Top of ridge about 60 ft above sec cor. bears E and W. Descend

38.00 Bottom of descent about 45 ft below top of ridge bears E and W. Begin gradual ascent.

40.00 Set a sandstone 34 x 12 x 6 ins. 25 ins in the ground for 1/4 sec cor. marked 1/4 on W face; and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable: from which an oak 4 ins diam bears S 87° W 1.15 chs dist marked 1/4 S.B.T.

An oak 3 ins diam bears S 60° W 75 lks dist marked 1/4 S.B.T.

71.00 Top of W slope of ridge about 50 ft above 1/4 sec cor. thence slight descent along W slope of ridge bearing N.

80.00 Set a sandstone 20 x 10 x 8 ins. 15 ins in the ground for cor. of secs 11. 12. 13 and 14 marked with 4 notches on S and 1 notch on E. edge; and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. from which:

A low pine 12 ins diam; bears N 67° W 1.58 chs dist: marked T 38. S. R. 10 W. S 11. B.T.

A low pine 14 ins diam bears S 7° E 82 lks dist marked T. 38. S.R. 10 W. S 13. B.T.

This sec cor. is about 50 ft above the last 1/4 sec cor.

Land rolling and somewhat brokend with ridges and hollows.

Soil, clay, sand and loam some stone 2nd rate.

No. Timber.

Dense oak brush undergrowth 80.00 chs

September 9th 1895 at the cor. of secs 11. 12. 13. and 14 at 2h 30m p.m. l.m.t. Set off 37°31' W on the lat arc 5°10' N on the decl. arc: and determine a true meridian with the solar.

Thence Drun East on a random line bet secs 12 and 13

40.00 Set temp 1/4 sec cor.

80.30 Intersect E bdy of Tp. 46 lks S of cor. of secs 7. 12. 13 and 18 which is a sandstone 6 x 6 x 5 ins above ground marked with 4 notches on S and 2 notches on N edges with pits and mound of earth from which:

An oak 5 ins diam bears N 42° W 1.90 chs dist marked T 38. S. R. 10. W. S. 12. B. T.

Thence Drun.

S 89° 40' W on a true line bet secs 12 and 13.

Subdivision of T. 38 S. R. 10 W — continued

chains.	
	Over descending land through oak brush.
6.20	Bottom of hollow about 40 ft below sec cor. drains S.W.
	Enter scattering quaking asp, bears NE. and SW. Ascend.
14.00	Top of SW slope of spur about 25 ft above hollow. Descend
19.00	Begin more abrupt descent to gulch bears N 30° E and S 30° W.
30.00	Enter scattering pine timber bears N and S.
32.90	Bottom of gulch about 250 ft below sec cor.
	A branch of Virgin river in bottom of gulch. stream 6 ins deep 8 lks wide, water clear and cold. course S 30° E. Ascend.
40.15	Set a sandstone 24 × 12 × 8 ins. 18 ins in the ground for 1/4 sec cor, marked 1/4 on N face and raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable: from which a pine 41 ins diam bears S 37° E 76 lks dist marked 1/4 S.B.T. A quaking asp 9 ins diam bears N 22° E 97 lks dist marked 1/4 S.B.T.
	This 1/4 sec cor is about 75 ft above bottom of gulch
45.00	Leave pine timber bears N & S.
56.00	Leave quaking asp. bears NE & SW.
63.70	Wash 2 ft deep 80 lks wide drains SE.
80.30	The cor of secs 11. 12. 13 and 14.
	This sec cor is about 250 ft above the last 1/4 sec cor.
	Land mountainous.
	Soil clay loam and soil 1st rate.
	Timber pine and quaking asp.
	Undergrowth, scrub oak.
	Mountainous land 80.30 chs

	N 0° 01' W. bet secs 11 and 12.
	Over descending land through scrub oak undergrowth.
16.80	Bottom of hollow about 30 ft below sec cor drains S 75° E thence slight. Ascent.
24.00	Top of spur about 30 ft above hollow bears E and W. Descend.
36.00	Bottom of hollow about 35 ft below top of spur drains E Ascend.
40.00	Set a sandstone 20 × 12 × 5 ins. 15 ins in the ground for 1/4 sec cor marked 1/4 on W face and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable from which. An oak 4 ins diam bears S 20° W 32 lks dist marked 1/4 S.B.T. An oak 4 ins diam bears W 98 lks dist marked 1/4 S.B.T.
	This 1/4 sec cor is about 40 ft lower than the last sec cor.
40.50	Top of E slope of spur. Descend.

chains	
54.88	Old Road bears E and W.
57.00	Bottom of hollow about 35 ft below top of E slope of spur drains S 60° E.
	Enter quaking asp timber bears SE and NW. Ascend.
63.52	Top of spur about 60 ft above hollow bears E and W. Descend
69.25	Bottom of wash about 40 ft below top of spur. drains S 60° E. Ascend
71.00	Top of spur about 15 ft above wash bears S 60° E and N 60° W Descend.
74.00	Bottom of hollow about 30 ft below top of spur drains SE. leave oak brush bears NW and SE. Ascend over stony land brs SE.
80.00	Set a lava stone 18 x 12 x 8 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 and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable from which:
	A quaking asp 4 ins diam bears N 52½° E 25 lks dist marked T. 38. S. R. 10 W. S 1. B. T.
	A quaking asp 5 ins diam bears N 44½° W 76 lks. dist. marked T. 38. S. R. 10. W. S. 2. B. T.
	A quaking asp 7 ins diam bears S 67½° W 28 lks dist; marked T. 38. S. R. 10. W. S. 11. B. T.
	A quaking asp 6 ins diam bears S 52° E 49 lks dist marked T 38 S. R. 10 W. S. 12. B. T.
	Land mountainous.
	Soil. clay sand and loam. some parts stony. 1st and 4th rate
	Timber quaking aspen
	Undergrowth oak brush on 74 chs.
	Mountainous land 80.00 chs. September 9th 1895.
	September 10th 1895.
	At the cor of secs 1.2.11 and 12, which I established Sept 9th at 8h 00m a. m. l. m. t. I set off 37° 32' N on the lat arc 4° 54' N on the decl arc and determines a true meridian with the solar.
	Thence I run.
	N 89° 40' E on a random line bet secs 1 and 12.
40.00	Set temp ¼ sec. cor.
80.18	Intersect E bdy of Tp 5 lks N of cor of secs 1.6.7. and 12 which is a sandstone 6 x 10 x 4 ins above ground marked with 5 notches on S and 1 notch on N edges with pits in each sec 5½ ft dist and a mound of earth W of cor.

Subdivision of Tp. 38. S. R. 10 W. continued.

chains	
	Thence Run.
	S 89° 42' W on a true line bet secs 1 and 12.
	Over descending W slope of ridge through oak brush.
3.67	Irrigating ditch water 2 ins deep 1 lk wide, course S.
5.12	Road from Joseph S Fife's ranch to Cedar City bears S 30° E and W.
7.00	N E cor of Joseph S. Fife's field 15 chs S bro S 10° E 15 chs and W 6.00 chs thence S. W.
7.14	Creek about 50 ft below sec cor. Stream of clear cold water 6 ins deep. 3 lks wide in bottom, course S 15° E.
	Enter quaking asp timber bears N and S. Begin gradual ascent.
7.34	Irrigating ditch. water 2 ins deep 3 lks wide course S 15° W
19.80	Foot of lava bluff bears N 30° E and S 30° W.
20.28	Top of same about 35 ft above foot thence gradual ascent.
	Mag decl at this point 12° 15' E at 9h a. m.
27.52	Road from J. S. Fifes ranch to Cedar City bears N 30° E and S 30° W.
32.00	Leave oak brush bears N and S.
40.09	Set a volcanic stone 28 X 12 X 6 ins. 21 ins in the ground for 1/4 sec cor, marked 1/4 on N face; dig pits 18 X 18 X 12 ins E and W of stone 3 ft dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N of cor from which a quaking asp 5 ins diam bears N 64° W 47 lks dist. marked 1/4 B. B. T.
	A quaking asp 5 ins diam. bears S 53° W. 88 lks dist marked 1/4 B. B. T.
	This 1/4 sec cor is about the same elevation as the last sec cor.
43.00	Begin gradual descent, bears N and S.
47.50	Bottom of hollow, about 35 ft below 1/4 sec cor drains S. Ascend.
57.50	Road from Cedar City to Duck Lake bears N W and S E.
61.00	Top of ascent Begin steep descent over stony land bears N W and S E.
70.00	Begin more gradual descent bears N W and S E.
80.18	The cor of secs 1. 2. 11 and 12.
	This sec cor is about 150 ft below the last 1/4 sec cor.
	Land mountainous.
	Soil, clay, sand and loam, E 61.00 chs, W 19.18 chs, stony.
	1st and 4th rates.
	Timber quaking asp.
	Undergrowth, scrub oak on 32.00 chs.
	Mountainous Land 80.18 chs.

Subdivision of T. 38. S.R. 10 W — continued.

chains

N 0° 01' W on a random line bet secs 1 and 2.

10.44 Intersect the prolongation East of the S bdy of T 37 S.R. 10 W 17.50. chs. NE cor of T 37 and 38 S.Rs. 9 and 10 W which is a sand stone 24 X 10 X 5 ins in a mound of stone marked and witnessed as described by the survey or general. Note — I obliterated all markings on this cor and bearing trees and remark for the S.E. cor of Tp 37. S.R. 10 W as follows with 6 notches on N and W edges from which. A quaking asp 8 ins diam bears N 62½° W. 40 lks dist. marked T. 37. S.R. 10 W. S 36. B.T.

Thence Run.

E on the prolongation of S bdy of T 37. S.R. 10 W.

Over descending land through quaking asp timber and oak undergrowth.

7.00 Bottom of hollow 40 ft below Tp Cor drains SE. Thence Ascend.

17.50 The NE cor of sec 2. where I set a volcanic stone 18 X 12 X 6 ins. 12 ins in the ground for NE cor of sec 2 marked with six notches on S edge and raise a mound of stone 2 ft base 1½ ft high. S.W. cor. pit impracticable from which.

An oak 9 ins diam; bears S 37½° W 1.08 chs dist marked T 38. S.R. 10. W. S 2. B.T.

Land mountainous.

Soil clay and some stone, 2nd rate.

Timber Quaking asp —

Undergrowth. Oak

Mountainous or timbered land 17.50 chs

Thence Run.

S 0° 01' E. on a true line bet secs 1 and 2.

Over descending land through quaking asp timber and oak undergrowth.

8.00 Ledge oak undergrowth bears E and W.

10.44 The cor of secs 1. 2. 11. and 12.

This sec cor is about 40 feet below the NE cor of sec 2.

Land Mountainous.

Soil clay loam and stone; 2nd rate.

Timber quaking asp.

Undergrowth oak

Mountainous or timbered land. 10.44 chs.

Subdivision of T 38. S. R. 10 W. — continued

September 11th 1895.

Note — As the land in secs 34 and 35 is rough, stony and very precipitous with high cliffs running through it, and as the cor of secs 25. 26. 35 and 36 is unapproachable.

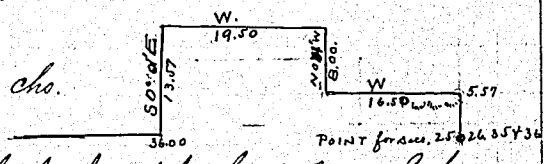
I begin at the flag set Sept 9th on top of cliff 5.57 chs N of point for cor of secs 25. 26. 35 and 36 and to pass the cliff I offset as follows.

West on offset line 16.50 chs to a point on edge of gulch 300 ft deep with vertical cliffs brs N and S.

N 0° 01' W 8.00 chs.

West on offset line 19.50 chs.

S 0° 01' E. 13.57 chs to.



36.00 A point on line on W bank of gulch brs N E and S W.

Thence I run.

W on a true line bet secs 26 and 35.

Over ascending land through dense oak brush

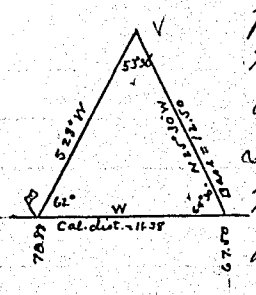
40.00 Set an oak post, 3 ft long, 4 ins sqr with a quart of charcoal 24 ins in the ground, for 1/4 sec cor marked 1/4 S on N face; dig pits 18 × 18 × 12 ins E and W of post, 3 ft dist. and raise a mound of earth. 3 1/2 ft base 1 1/2 ft high N of cor.

This 1/4 sec cor is about 450 ft above the witness to cor of secs 25. 26. 35 and 36.

59.00 Top of ridge about 85 ft above 1/4 sec cor bears N & S Descend.

67.00 Enter scattering pine and quaking asp timber bears N and S

67.50 To East bank of gulch about 250 ft deep with vertical cliffs on either side, gulch drains S 15° E. Heavy pine and quaking asp timber in bottom and on W bank of gulch



To determine the distance across, I set a flag on line on W bank of the gulch; then measure a base line N 25° 30' W 12.50 chs to a point whence the flag bears S 28° W. From the flag the N end of the base bears N 28° E therefore the angles taken in order of measurement are 64° 30, 53° 30' and 62° 00' their sum being 180° 00'.

I compute the distance across the gulch as follows $\frac{\sin 53° 30'}{\sin 62°} \times$ base or $\frac{0.80386 \times 12.50}{0.88295}$ = 11.38 chs also 67.50 + 11.38 makes

78.88 To west bank of gulch brs N.W. and S.E.

80.00 Set a limestone 14 × 8 × 6 ins, 9 ins in the ground for cor.

of secs. 26. 27. 34 and 35 marked with 1 notch on S and 2 notches on E. edges; and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. from which a quaking aspen 7 ins diam bears N 47° E 27 lks dist marked T 38. S.R. 10 W. S. 26. B.T.
A quaking aspen 6 ins diam bears N 36° W 84 lks dist marked T 35. S.R. 10 W. S. 27. B.T.
A W oak 11 ins diam bears S 35° W 20 lks dist marked T 35 S.R. 10 W. S 34. B.T.
A pine 11 ins diam bears S 54° E. 26 lks dist marked T 38. S.R. 10 W. S. 35. B.T.
This sec cor stands on E slope of ridge about 30 ft abov top of cliff.
Land mountainous
Soil stony & poor
Timber pine and quaking aspen.
Undergrowth scrub oak.
Mountainous & heavily timbered land 80.00 chs.

Sept 11th 1895.
All the cor of secs 26. 27. 34 and 35 already described at 10h 00m a.m. l.m.t. Set off 27° 29' N on the lat arc 4° 29' N on the chord arc and determine a true meridian with the solar.
Thence Draw
N 0° 01' W bet secs 26 and 27.
Gray slope and stony descending E slope of ridge through
Chains. heavy pine and quaking aspen timber and shrub oak undergrowth.
11.70 Bottom of gulch about 70 ft below sec cor. drains S.E. — vertical drop of about 100 ft in bottom of gulch 2 chs S.E. of this point. Lean timber bears SE. and W.
7.10 Foot of cliff bears SE and NW.
7.25 Top of same about 20 ft above foot, thence gradual ascent abov W slope of spur abov bears stony land bro E and W.
13.00 Top of W slope of spur about 75 ft above bottom of gulch Descend
20.70 Bottom of gulch about 30 ft below top of W slope of spur drains S. W. Ascend.
40.00 Set a sandstone 14 x 10 x 6 ins 9 ins in the ground for ¼ sec cor, marked ¼ on W face, and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable from which An oak 6 ins diam bears E 72 lks dist marked ¼. S.B.T.

Subdivision of T38. S. R. 10 W – continued

chains	
	No other trees within limit large enough to mark
50.00	Lehi Thorley's log cabin 20.00 chs E
70.00	Top of ridge about 60 ft above ¼ sec cor bears E and W thence gradual descent
72.00	Richard Aldridge's cabin 13 chs. W
79.50	Wash 5 ft deep, 25 lks wide drains NE.
80.00	Set a sandstone 18X12X8 ins, 12 ins in the ground for cor of secs 22.23.26 and 27 marked with 2 notches on ~~[illegible]~~ S and E edges; and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable from which. a quaking asp 5 ins diam bears N 55° W 1.58 chs dist marked T.38.S.R.10 W S.22. B.T.
	A quaking asp 15 ins diam bears N 40° E. 3.20 chs dist marked T38. S. R. 10. W. S 23. B. T.
	No other trees within limit.
	Land Mountainous.
	Soil clay sand and loam some stone 1st and 4th rates.
	Timber pine and quaking asp.
	Undergrowth scrub oak.
	Mountainous or heavily timbered land 80.00 chs.
	East on a random line bet secs 23 and 26.
40.00	Set temp ¼ sec cor.
79.80	Intersect N and S line 28 lks N of cor of secs 23.24.25 and 26.
	Thence Irun.
	N 89° 48' W on a true line bet secs 23 and 26.
	Over ascending land through oak brush.
3.70.	Top of ascent about 15 ft above sec cor bears N and S. Descend.
14.70	Bottom of hollow about 65 ft below top of ascent drains SE. Ascend.
39.90.	Set an oak post, 3 ft long, 4 ins sq. 24 ins in the ground for ¼ sec cor marked ¼ S. on N face, dig pits 18X18X12 ins E and W of post 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N of cor from which.
	An oak 11 ins diam bears N 74° E. 2.47 chs dist. marked ¼ S. B. T.
	An oak 5 ins diam bears S 6½° W. 2.17 chs dist marked ¼ S B T.
	This ¼ sec cor is about 50 ft below the last sec cor.
44.00	Top of ridge about 75 ft above bottom of hollow bears N and S. Descend.
64.00	Bottom of hollow about 70 ft below top of ridge drains SE.

Subdivision of T. 38 S R 10 W. - continued

Chains	
	Ascend.
69.00	Enter quaking asp timber bears N and S.
75.00	Leave quaking asp bears N W and S E.
79.50	Wash 5 ft deep 20 lks wide, drains N E. Ascend
79.80	The cor of secs 22.23.26 and 27.
	Land mountainous
	Soil, clay sand and loam, 1st rate.
	Timber quaking asp.
	Undergrowth large scrub oak.
	Mountainous land 79.80 chs.

Sept 11th 1895.

At the cor of secs 22.23.26. and 27 which I established this day at 11h 57m a.m l. m. t I sett off 4° 27' N on the decl. arc and observe the Sun on the Meridian the resulting lat 37°29' N.

Prince Irun.

N 0° 01' W bet secs 22 and 23.

Over descending land through large oak brush.

2.00	Enter scattering quaking asp, bears S E. and W.
3.50	Bottom of descent, about 15 ft below sec cor drains E. Ascend
7.50	Top of E slope of ridge about 25 ft above point of ascent. Descend
13.00	Bottom of hollow about 20 ft below top of E slope of ridge drains E Ascend.
16.00	Top of small spur about 15 ft above hollow bears E and W. Descend.
19.00	Leave quaking asp bears E W.
21.00	Bottom of hollow 35 ft below top of spur drains E. Ascend.
26.00	Top of spur about 30 ft above hollow bears E and W. Descend.
31.40	Bottom of hollow about 35 ft below top of spur drains S 60° E Ascend.
38.00	Enter quaking asp bears E and W.
40.00	Set a sand stone 16×14×6 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on W. face, dig pits 18×18×12 ins, N and S 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W of cor from which.
	A quaking asp 11 ins diam bears N 65° E 1.40 chs dist. marked 1/4 S.B.T.
	A quaking asp 11 ins diam bears S 51° W 1.71 chs dist marked 1/4 S.B.T.
42.50	Top of spur about 15 ft above 1/4 sec cor bears E and W. Descend
68.50	Bottom of gulch about 125 ft below top of spur drains N E. Ascend.
80.00	Set a sandstone 16×10×5 ins 11 ins in the ground for cor

Subdivision of T. 38 S. R. 10. W. = continued

of secs 14. 15. 22 and 23 marked with 3 notches on S and 2 notches on E edges, and raise a mound of stone 2 ft base 1½ ft high W of cor, pits impracticable; from which.

A quaking asp 5 ins diam bears N 27¼° E 90 lks dist marked T. 38. S. R. 10. W. S. 14. B. T.

A quaking asp 5 ins diam: bears N 49½° W 50 lks. dist marked T. 38. S. R. 10 W. S. 15. B. T.

A quaking asp 5 ins diam bears S 26° W. 60 lks. dist; marked T. 38. S. R. 10. W. S 22. B. T.

A quaking asp. 11 ins diam bears S 22¼ E 1.04 chs dist marked T. 38. S. R. 10. W S. 23. B. T.

Land mountainous.

Soil clay sand and loam. 1st rate

Timber quaking asp.

Undergrowth scrub oak

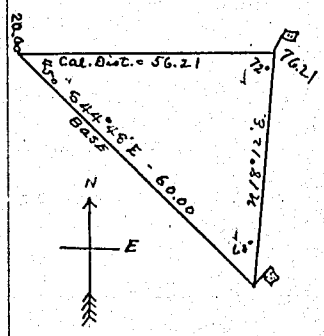
Mountainous or heavily timbered land 80.00 chs.

S 89° 48' E on a random line bet secs 14 and 23.

22.60 To west bank of gulch, set temp, witness to ¼ sec cor;

Note – as it is impracticable to measure a base line from this point I set my instrument on line at a point 2.60 chs W. of at 20.00 chs.

To determine the distance across; I set a flag on line on E bank of gulch then measure a base line S 44° 48' E. 60.00 chs. to a point whence the flag bears N 18° 12' E. From the flag the S end of the base bears S 18° 12' W; therefore the angles taken in order of measurement are 45°, 63° and 72° their sum being 180°. I compute the distance across the gulch, as follows;



$\frac{\sin 63°00'}{\sin 72°00'} \times$ base or $\frac{0.891 \times 60.00}{0.951} = 56.21$ chs

also 20.00 chs + 56.21 chs makes.

76.21 To east bank of gulch.

80.06 Intersect W and S line at cor of secs 13. 14. 23 and 24 thence.

Run.

N 89° 48' W on a true line bet secs 14 and 23. Over descending land through dense oak brush.

230 Enter pine and cedar timber brs N W and SE.

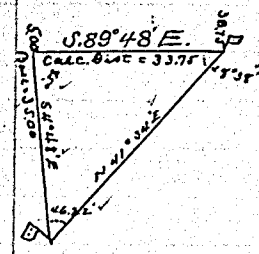
Subdivision of T. 38 S. R. 10 W — continued.

Chains	
2.85	To east bank of gulch and top of high cliff bro S E and N W. This gulch is about 1000 ft deep the bottom and banks of which are covered with a heavy growth of pine timber with a few scattering cedars. In the bottom of this gulch is a stream of clear cold water (a branch of the Virgin River) 12 ins deep, 20 lks wide, current swift, course S E.
37.46	West bank of the gulch bro N 30° W and S 40° E. Set a sandstone 26 x 12 x 10 ins, 19 ins in the ground for witness corner to 1/4 sec cor, marked W. C. 1/4 on N face and raise a mound of stone 2 ft base 1½ ft high W of cor pits impracticable, from which. A pine 29 ins diam bears N 21° W 1.42 chs dist marked W. C. 1/4 S. B. T. No other trees within limit
70.00	Leave pine and cedar timber bro N W and S E
72.00	Enter quaking asp timber, bears N and S.
80.06	The cor of Secs 14. 15. 22 and 23. The sec cor is about 75 ft above witness cor. Land mountainous. Soil. Black loam, some clay and sand, stony in gulches. 1st and 4th rates. Timber pine quaking asp and scattering Cedar. Undergrowth scrub oak. Mountainous or heavily timbered land 80.06 chs.
	N 0° 01' W bet Secs 14 and 15. Over ascending land through quaking asp timber and oak undergrowth.
3.50	Top of spur about 40 ft above sec cor, bears N 60° E and S 60° W. Descend
9.84	A quaking asp 11 ins diam on line. Smooth with 2 notches on N & S. sides
14.00	Leave quaking asp bears E and W.
16.00	Bottom of hollow about 75 ft below top of spur, drains N 75° E Ascend
31.50	Top of spur about 50 ft above hollow bears E and W. Enter quaking asp bears E and W Descend
40.00	Set a sandstone 24 x 10 x 5 ins 18 ins in the ground for 1/4 sec cor, marked 1/4 on W face, and raise a mound of stone 2 ft base 1½ ft high W of cor, pits impracticable: from which. A quaking asp 18 ins diam. bears N 50° W 83 lks dist. marked 1/4 S. B. T. A quaking asp 6 ins diam bears S 47° E 60 lks dist. marked 1/4 S. B. T.

Subdivision of T. 38. S. R. 10. W.

Chains	
45.40	Bottom of hollow about 40 ft below 1/4 sec cor chains N 20° E Ascend
47.00	Wm S. Jones log cabin 8.00 chs W.
56.00	Top of E slope of spur about 20 ft above Hollow - Descend
58.30	Bottom of wash about 25 ft below top of E slope of spur chains S E. Ascend
60.00	Leave Oak. Also top of ascent bro E and W thence slight descent.
80.00	Set a sandstone 24 x 8 x 6 ins 18 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. dig pits 18 x 18 x 12 ins in each sec 3 1/2 ft dist, and raise a mound of earth 2 ft base 1 1/2 ft high W of cor. from which A quaking asp 13 ins diam bears N 16° W 1.67 chs dist marked T. 38. S. R. 10 W. S. 10. B. T. A pine 11 ins diam bears N 53 1/2° E 2.13 chs dist marked T. 38. S. R. 10. W. S. 11. B. T. A quaking asp 14 ins diam, bears S 59 1/2° E, 1.59 chs dist marked T. 38. S. R. 10. W. S. 14. B. T. No other trees within limit Land Mountainous. Soil Clay, sand and loam 1st rate. Timber quaking asp. Undergrowth large scrub oak. Mountainous or heavily timbered land 80.00 chs September 11. 1895
	September 12th 1895. At the cor of secs 10. 11. 14 and 15 which I reestablished Sept 11: at 8^h. 00^m a. m. l. m. t. I set off 37° 31' N on the lat arc 4° 08' N on the decl arc and determine a true meridian with the solar. Thence I run. S. 89° 48' E on a random line bet secs 11 and 14.
7.50	To west bank of gulch. Note - It is impracticable to measure a base line from this point, therefore from a point on line 5.00 chs E of the cor of secs 10. 11. 14 and 15.

Chains



I set a flag on line on E side of the gulch and measured base line S. 4°48' E. 35 Chs. to a point whence the flag bears N. 41°34' E. From the flag the south end of the base line bears S. 41°34' W. therefore the angles taken in order of measurement are 85°00, 46°22' and 45°38'; their sum being 180°.

I compute the distance across the gulch as follows.

$\frac{\text{sin. } 46°22'}{\text{sin. } 48°38'} \times$ base or $\frac{0.72377 \times 35.00}{0.7505} = 33.75$ Chs.: also

57. 33. 75 Makes.

38.75 To East bank of gulch.

80.10 Intersect N. and S. line 9 lks. S. of cor of secs. 11, 12, 13 and 14

Thence I run.

N. 89°52' W. on a true line bet. secs. 11 and 14

Over descending land through oak brush.

17.30 Bottom of hollow about 75 ft. below sec cor. drains.

S. 30° W. ascend.

26.50 Top of ascent about 30 ft above hollow. bears N. and S

Descend

39.00 Enter Pine timber bears N.W. and S.E.

40.05 Set a lime stone 14 X 10 X 6 ins. 9 ins in the ground. for 1/4 sec. cor. Marked 1/4 on N. face and raise a Mound of stone 2 ft base 1½ ft high N of cor Pits impracticable; from which

An oak 5 ins diam. bears N. 41½° E.; 40 lks. dist. Marked 1/4 S. B. T.

A Pine 20 ins diam.: bears S. 55° W.: 75 lks dist.; Marked 1/4 S. B. T.

The 1/4 sec cor. is about 100 ft below the last sec: cor.

41.34 To East bank of gulch. bears oak bears S.E. and N.W.

The bottom and bank of this gulch are covered with a heavy growth of Pine timber

In the bottom is a stream of Clear cold water.

A Branch of the Virgin River 12 ins deep 18 lks wide current swift. Course S.E. Gulch about 900 ft. deep

72.50 To west bank of Gulch. bs N.W. and S. 15° E.

75.00 Leave Pine enter quaking asp bears S.E. and N.W.

80.10 The cor of secs. 10. 11. 14. and 15.

The sec cor is about the same elevation as the last 1/4 sec Cor.

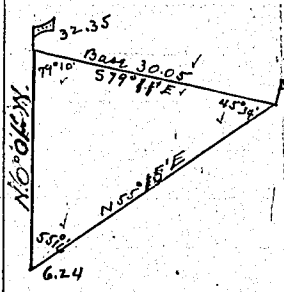
Land Mountainous

Subdivision of T. 38. S. R. 10. W. continued

Chains

Soil Clay sand and Loam stony in gulch
1st and 4th rates
Timber Pine and quaking asp.
Undergrowth large scrub oak.
Mountainous or heavely Timbered land. 80.10 Chs

N 0° 01' W bet secs. 10 and 11.
Over descending land through heavy quaking asp. Timber
2.00 Leave quaking asp. enter Pine timber bears E. and W.
6.24. To S. W. bank of gulch bears S. E. and N 70° W.—
To determine the distance across, I set a flag on line on N. E. bank of gulch but as it is impracticable to Measure a base line from this Point.
I set a second flag at the E end of my Prospective base line which from this Point bx N 55° 15' E—
Then from the flag set on line on N. E. bank of Gulch I measure a base line.



S. 79° 11' E. 30.05 Chs to the flag set at east end of base line.
From this flag the flag on line on S. W. bank of gulch bears S 55° 15' W. their fore the angles taken in order of Measurement are 55° 16'. 79° 10' and 45° 34.
their sum being 180° 00.
I Compute the distance across the gulch as follows
$\frac{\sin 45° 34'}{\sin 55° 16'} \times$ base are $\frac{0.714 \times 30.05}{.08218} = 26.11$ Chs. also
6.24 Chs + 26.11 Chs. Makes
32.35 To N. E. Bank of Gulch. bx S. 60° E.
This gulch is about 600 ft deep the Bottom and banks of which are heavely timbered with Pine.
In the bottom of Gulch is a stream of Clear Cold water (A Branch of the Virgin River) 10 ms deep 15 lks wide Current swift Course S. 60° E.)
Leave Pine timber enter scrub oak bears
N 60° E. and S. 60° W. ascend
40.00 Set an oak Post 3 ft long 4 ms sq with a quart of Charcoal 24 ms in the ground for 1/4 sec cor
Marked 1/4 S. on W face dig Pits 18 X 18 X 12 ms

Subdivision of T. 38 S. R. 10 W continued

Chains	
	N and S of post. 3 ft dist and raise a Mound of earth 3½ ft base 1½ ft high W of cor.
44.00	Top of W Slope of spur about 20 ft above 1/4 sec cor. Descend
45.00	Leave oak and enter scattering quaking asp timber bears E and W.
56.00	Enter oak bears E and W.
69.30	Bottom of hollow about 50 ft below Top of W.s Slope of spur draws S 60° W. Ascend.
80.00	Set a sand stone 18 X 8 X 8 ins 12 ins in the ground for cor of secs. 2. 3. 10. and 11. Marked with 5 Notches on S. and 2 Notches in E edges and raise a Mound of stone 2 ft base 1½ ft high. W of cor. Pits impracticable from which A quaking asp 10 ins diam bears N 47° E. 1.38 Chs dist Marked T. 38. S. R. 10 W. S 2. B.T. A quaking asp 10 ins diam bears S. 47° E. 1.13. Chs dist. Marked T. 38 S R 10 W. S. 11 B.T. No other trees within 25 ft
	Land Mountainous
	Soil brown clay and sand stony in gulch 1st and 4th rates.
	Timber Pine and quaking asp.
	Under growth scrub oak.
	Mountainous are. heavily timbered Land 80.00 Chs.
	September 12. 1895 at this cor. 11h 56m A.M. l.m.t. I set off 4° 04' N on the ded. arc; and observed the sun on the Meridian resulting latitude 37° 32' N
	S 89° 52. E on a random line bet secs 2 and 11.
40.00	Set temp 1/4 sec cor
79.98.	Intersect N and S line at cor of secs 1. 2. 11. and 12. Thence I run. N 89° 52 W on a true line bet secs 2 and 11. Over descending land through quaking asp and oak
5.50	Bottom of hollow about 25 ft below sec cor, draws S. E. ascend.
9.50	Leave quaking asp. bears N and S.
27.50	Top of ridge about 200 ft above gulch bears S 36° E. and N 36° W. Descend.
33.00	Bottom of hollow about 60 ft below top of ridge. draws S. W. Ascend

Subdivision of T. 38 S. R. 10 W. Continued

Chains	
39.00	Top of S. Slope of spur about 25 ft above hollow. Descend
39.99	Set a sandstone 20 X 16 X 6 ins. 15 ins in the ground for 1/4 sec cor. Marked 1/4. on N. face. And raise a mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
40.50	Bottom of descent. bears N and S. ascend
42.00	Top of spur about 30 ft above 1/4 sec cor. bears N. and S. Descend
58.00	Bottom of gulch about 90 ft below top of spur. bears S. Ascend
70.25	Top of spur about 60 ft above gulch bears N and S. Enter quaking asp timber brs N and S. Descend
78.10	Bottom of hollow about 45 ft below top of spur. bears S 30° E. Ascend
79.98	The Cor of secs 2. 3. 10 and 11. The sec corner is about 60 ft below the last 1/4 sec cor. Synd. Mountainous. Soil. Loam, Clay and Sand; 1st rate. Timber quaking asp. Scrub oak undergrowth. Mountainous or heavily timbered Land. 79.98. Chs.
	N 0° 01' W. on a true line bet secs 2 and 3. over ascending land through scattering quaking asp timber and oak undergrowth.
5.00	Top of ascent about 15 ft above sec cor brs E. and W. descend
10.87	Intersect N bdy of T. p. 9.84 Chs witness cor of secs 1. 2. 35 and 36 which is a pine tree 10 ins diam. marked and witnessed as described by the Surveyor General I obliterated all marks on bearing tree pertaining to secs 1 and 2. Where I set a lime stone 28 X 10 X 6 ins 21 ins in the ground for Closing cor of secs. 2 and 3 Marked C. C. on S with 2 grooves on E. and 4 grooves on W. faces. and raised a Mound of Stone 2 ft base 1 1/2 ft high S. of Cor. Pits impracticable from which. Oak 9 ins diam brs S 14° E 1.97 Chs dist Marked T. 38 S. - R. 10 W S. 2 B T. No tree within limit in sec 3.

Subdivision of T. 38. S. R. 10. W continued

Chains

Soil, Clay and loam. 1st rate
Timbered Quaking asp.
Mountainous Land 10.87 chs.
September 12. 1895

September 13. 1895: At the cor. of secs. 34. 33. and 34 on the S. body. of the Top. which I established Sept. 7. at 7hr 30mn a. m. l. m. t.
I set off 37° 28' N. on the lat. arc; 3° 45' N. on the decl. arc and determine a true Meridian with the Solar
Thence I run.
N. 0° 02' W. bet. secs. 33 and 34
Over descending land through dense oak brush
4.58 A small spring branch, course E.
22.35 A Branch of the Virgin River about 200 ft below sec. cor stream 8 lks. deep 7 lks. wide water clear and cold, course S 80° E. ascend
40.00 Set a sandstone 16 X 10 X 6 ins. 11 ins. in the ground for 1/4 sec. cor Marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high.
W. of cor. Pits impracticable from which
An oak 6 ins. diam bears N 83° E. 1.11 chs. dist marked 1/4 S.B.T.
No other trees large enough to mark
This 1/4 sec cor is about 100 ft below the cor. to secs. 34. 33. 34
61.30 Top of Spur about 125 ft. above 1/4 sec. cor. bears E. and W. descend.
65.00 Bottom of hollow about 25 ft. below top of Spur. course W. thence slight ascent.
76.00 Foot of Mountain bears E and W. begin very steep ascent.
80.00 Set a sand stone 20 X 10 X 8 ins. 15 ins. in the ground for cor of secs. 27. 28. 33 and 34.
marked with 1 notch on S. and 3 notches on E. edges and raise a mound of stone 2 ft base. 1 1/2 ft. high W. of Cor. Pits impracticable.
This sec. cor. is about 135 ft. above the last 1/4 sec cor.
Land Mountainous.
Soil, Clay. sand and loam some Parts stony, 1st & 4th rates

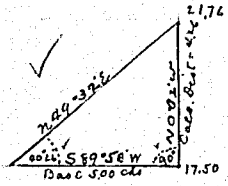
Subdivision of T 38. S. R. 10. W continued

Chains

No Timber.
Oak brush undergrowth.
Mountainous Land 80.00 Chs.
Note: This land to the East of this cor is very rough Stony Precipitous and broken with high vertical Cliffs. and is of no value for Agricultural or grazing purposes therefore I do not run the line. Bet secs. 27 and 34.

N 0°02' W. bet secs. 27 and 28.
over very steep ascending stony Mountian through dense scrub oak under growth

17.50 To foot of bluff brs S. 80° E.
To determine the horizontal distance to top of bluff.



I set a flag on line on top of bluff. and measure a base line S 89°58' W. 5 chs to a Point whence the flag bears N 49°32' E. From the flag the west end of the base bears S. 49°32' W. their fore the distance to top of bluff tan 40°.26' x base or 0.852 x 5.00 = 4.26 Chs. also 17.50 + 4.26 Makes.

21.76 To top of bluff about 400 ft. above sec. cor. bears N 80° W. and S 80° E thence ascent along W. slope of Mountian.

26.50 Top of W slope of Mountian about 60 ft. above top of bluff enter Pine timber bears E and W. thence along W. Slope of Mountian

40.00 Set a sand stone 18 X 10 X 6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W. face and raised mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable from which. A Pine 16 ins diam bears S 30° W. 1.97 chs dist Marked 1/4 S.B.T.
A Pine 22 ins diam bears N 15° W. 2.74 Chs dist Marked 1/4 S.B.T.
This 1/4 sec cor. is about 450 ft above the last sec cor Thence ascend along W Slope of Mountian.

46.00 Bottom of gulch about 70 ft above 1/4 sec Cor.
A small stream of Clear cold water in bottom 2 ins deep 1 lk wide course S. 10° W over Precipitous Mountian Slope thence ascend along E Slope of ridge.

Subdivision of T. 38. S. R. 10 W. continued

Chains	
52.00	Leave Pine Timber.
	Enter quaking asp bears E. and W.
61.00	Leave oak undergrowth.
80.00	Set a sand stone 16 X 8 X 6 ins 11 ins in the ground for cor of secs 21. 22 27 and 28. Marked with 2 Notches on S. and 3 Notches on E. edges. And raise a mound of stone 2 ft. base 1½ ft. high W of cor pits impracticable from which.
	A quaking asp 11 ins diam bears N 56° W.; 2.93 Chs dist Marked T 38 S R 10 W S 21. B T.
	A quaking asp 11 ins diam bears N 71° E.; 1.35 Chs dist marked T. 38. S. R. 10. W S. 22 B T.
	A quaking asp 9 ins diam bears S 49° E. 1.26 Chs dist Marked T 38. S. R. 10 W. S. 27. B T.
	A quaking asp. 10 ins diam. bears S 66° W. 1.28 Chs dist Marked T 38. S. R. 10 W. S 28. B T.
	This sec cor is about 200. ft above the last ¼ sec cor
	Land Mountainous
	Soil N. 30.00 Chs Clay sand and Loam S. 50.00 Chs stony. 1st and 4th rates
	Timber Pine and quaking asp
	Undergrowth, scrub oak
	Mountainous or heavily timbered land 80.00 Chs
	September 13. 1895. at the corner of secs 21. 22. 27. and 28 which I established this day at 11h 56m a.m. l.m.t. I set off 3° 41' N. on the ded arc and observe the sun on the Meridian resulting latitude 37° 29' N. Thence I run.
	East on a random line bet secs. 22 and 27.
40.00	Set Temp. ¼ sec cor
80.04	Intersect N and S. line & lks S of cor of secs 22. 23. 26. & 27. Thence I run.
	S. 89° 57' W on a true line bet. secs. 22 and 27. Over ascending land through oak brush
10.70	Top of Ridge about 70 ft. above sec. cor bears N and S. Descend
21.00	Bottom of hollow about 60 ft. below top of spur drains S. Ascend.
30.50	Top of S. Slope of Spur about 50 ft. above hollow Descend
38.50	Bottom of hollow about 40 ft. below top of S. Slope of Spur Drains S.E. Ascend.

Subdivision of T 38. S R 11 W Continued

Chains	
40.02	Set a sand stone 16 X 14 X 6 ins 11 ins in the ground for 1/4 sec cor. Marked 1/4 on N. face and raise a Mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable from which An oak 7 ins. diam bears N 45° E. 2.11 chs dist marked 1/4 S B. T. An oak 6 ins. diam. brs W. 1.39 chs. dist. Marked 1/4 S B. T.
56.00	Top of spur about 75 ft. above hollow bears N and S. Descend
74.00	Bottom of Gulch about 150 ft below top of spur a small stream of clear cold water 2 ins. deep 1 lk wide in Bottom course S. 10° W. Leave oak enter Quaking asp timber bears N and S. ascend
80.04	The cor of secs 21. 22. 27 and 28. This sec cor is about 60 ft. above bottom of Gulch Land Mountainous Soil, Clay sand and Loam 1st rate Timber Quaking asp. Under growth large oakbrush Mountainous Land 80.04 chs.
	No 02 W bet. secs. 21 and 22 Over ascending E Slope of ridge through scattering quaking asp. timber
9.00	Scrub oak undergrowth
35.00	Top of E. Slope of ridge about 60 ft. above sec. cor thence gradual; descent.
36.00	A Sheep corral 10.00 chs E. also David Thorleys ranch houses 13.00 chs E
40.00	Set a sand stone 16 X 10 X 6 ins 11 ins in the ground for 1/4 sec cor Marked 1/4 on W. face and raise a Mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable from which. A quaking asp. 7 ins diam. bears N 43° E. 3.66 chs dist marked 1/4 S. B. T. An oak 13 ins diam bears S. 60° W. 4.09 chs dist Marked 1/4 S B. T.
49.35	Bottom of hollow about 50 ft. below 1/4 sec. cor. drains E. ascend
53.00	Top of E slope of spur about 20 ft. above hollow Descend
65.00	Bottom of hollow about 25 ft below top of E slope of spur drains E. ascend

Subdivision of T. 38 S. R. 10 W. – Continued.

Chains	
71.00	Top of E. slope of spur, about 30 ft. above hollow, descend.
76.30	Bottom of hollow about 20 ft. below top of E. slope of spur drains S. 60° E. Ascend
80.00	Set a sandstone 12×10×10 ins. 8 ins. in the ground for cor. of secs. 15. 16. 21 and 22. marked with 3 notches on S. and E. edges; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable, from which:
	A quaking asp 11 ins. diam bears N. 52° E. 2.38 chs. dist: marked T. 38 S. R. 10 W. S. 15 B. T.
	A quaking asp 6 ins. diam, bears N. 37° W. 2.93 chs. dist marked T. 38. S. R. 10 W. S. 16 B. T.
	An oak 14 ins. diam bears S. 37¼° W. 1.43 chs. dist marked T. 38 S. R. 10 W. S. 21 B. T.
	No trees within limit in sec. 22.
	Land Mountainous
	Soil, clay sand and loam 1st rate.
	Timber quaking asp. and large scrub oak.
	Mountainous Land 80.00 chs.

	N. 89° 57' E. on a random line bet. secs. 15 and 22.
40.00	Set Temp. ¼ sec. cor.
79.98	Intersect N. and S. line 14 lks. N. of cor. of secs. 14. 15. 22 and 23.
	Thence Drum.
	N. 89° 57' W. on a true line bet secs. 15 and 22.
	Over ascending land through quaking asp and oak undergrowth.
3.00	Top of ridge about 50 ft. above sec. cor. brs. N. E. descend.
6.00	Leaving quaking asp timber and oak undergrowth brs. N. and S.
12.50	Enter oak undergrowth and scattering quaking asp timber.
15.00	Annie Rowerdines Cabin 14.50 chs. North.
26.00	Bottom of hollow, about 60 ft. below top of ridge, drains N. E. ascend.
36.00	Leave quaking asp. bears N. and S.
39.99	Set a sandstone 14×12×5 ins. 9 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. pits impracticable, from which:
	An oak 5 ins. diam brs. S. 5° W. 69 lks. dist. marked ¼ S. B. T.
	An oak 8 ins. diam brs. N. 4° E. 1.25 chs. dist. marked ¼ S. B. T.
53.00	Top of spur about 50 ft. above ¼ sec. cor. brs. S. 60° E. and W. descend.
56.40	Head of hollow about 35 ft. below top of spur drs. N. 60° E also old road brs. S. 60° E. and N. 60° W. ascend
64.00	Top of N. slope of ridge about 25 ft. above hollow descend.
76.90	Road from David Thorleys ranch to Cedar City bears N. and S.
77.65	Bottom of hollow about 50 ft. below top of N. slope of ridge drains N. 5° E. enter quaking asp, brs. N. and S. ascend.

Subdivision of T. 38 S. R. 10 W. - Continued

Chains	
79.98	The cor. of secs. 15. 16. 21 and 22.
	Land Mountainous
	Soil, clayloam and sand; 1st rate.
	Timber quaking asp and large scrub oak.
	Mountainous Land 79.98 chs.
	September 13. 1895

September 14. 1895 at the cor. of secs. 15 and 16. 21 and 22 which I established September 13. At 7h. 30m a.m. l.m.t. I set off 37° 30' N. on the lat. arc: 3°22' N. on the decl. arc, and determine a true meridian with the solar.

Thence I run,

N. 0° 02' W. bet secs. 15 and 16.

Over ascending land through scattering quaking asp and oak timber.

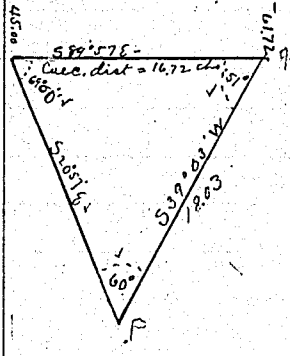
5.00	Top of E. slope of spur about 20 ft. above sec. cor. descend.
6.23	Road from David Thorley ranch to Cedar City bs. E and W.
27.23	A spring branch water 2 ins. deep 1 lk. wide, clear and cold about 10 ft. below top of E. slope of ridge course S. E. 1.00 chs. thence N. E. ascend
30.00	Anna Thorley ranch house 26.00 chs. W.
32.00	Levi W. Jones ranch house 25.00 chs W.
36.50	Leave quaking asp bs. E and W.
40.00	Set a sandstone 18 x 12 x 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stone 2 ft base 1½ ft. high W. of cor. pits impracticable, from which:
	An oak 9 ins. diam. bs. S. 55° W. 2.18 chs. dist. marked 1/4 S. B. J.
	An oak 8 ins. diam. bs. S. 50° E. 2.37 chs. dist. marked 1/4 S. B. J.
41.00	Richard A. Thorley's cabin 4.00 chs. E.
44.00	Top of E. slope of spur, about 30 ft. above 1/4 sec. cor. descend
55.00	Enter quaking asp bears E and W.
66.70	Bottom of hollow about 150 ft. below top of E. slope of spur drains E. ascend.
71.00	Leave quaking asp bears E and W.
80.00	Set a sandstone 16 x 6 x 6 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: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable, from which:
	An oak 12 ins. diam. bs. N. 66 1/4° E. 1.32 chs. dist. marked T. 38 S. R. 10 W. S. 10 B. T.
	An oak 11 ins. diam. bs. S. 27½° E. 1.69 chs. dist. marked T. 38. S. R. 10 W. S. 15 B. T.
	An oak 5 ins. diam. bs. S. 66° W. 61 lks dist. marked

Subdivision of T. 38 S. R. 10 W. Continued

chains

T. 38 S. R. 10 W. S. 16 B. T.
No trees within limit in sec 9.
This sec cor. is about 150 ft. above gulch.
Land Mountainous,
Soil, clay sand and loam: 1st rate;
Timber quaking asp, and oak
Mountainous land 80.00 chs.

S. 89° 57' E. on a random line bet. secs. 10 and 15.
40.00 Set temp 1/4 sec. cor.
45.00 To West bank of gulch
To determine the distance across I set a flag on the East bank of gulch; but as it is impracticable to measure a base line from this point. I set another flag at S. end of my prospective base line, which from this point bears S. 20° 57' E.; then from the flag set on line on E. side of gulch. I measure a base line S. 39° 03' W. 18.03 chs. to a point whence the flag set on line on W. side of gulch, bears N. 20° 57' W. therefore the angles, taken in order of measurement are 69° 51', and 60°, their sum being 180° 00'. I compute the distance across the gulch as follows;



$\frac{\sin 60° 00'}{\sin 69° 00'} \times$ base, or $\frac{0.866 \times 18.03}{0.9336} = 16.72$ chs, also

45.00 + 16.72 makes
61.72 To East bank of gulch.
79.94 I intersect N. and S. line 19 lks. N. of cor. of secs. 10, 11, 14 and 15.
Thence I run
N. 89° 49' W. on a true line bet. secs. 10 and 15.
Over ascending land through quaking asp timber.
6.00 Top of spur, about 30 ft. above sec. cor. brs. N. and S. descend.
18.22 East bank of gulch, leave quaking asp timber, enter pine timber, bears N. E. and S. W.
This gulch is about 500 ft. deep; the bottom and banks of which are covered with a heavy growth of pine timber, in the bottom is a branch of the Virgin River; stream 8 ins. deep 10 lks wide, water, clear and cold course N. E.
34.94 To W. Bank of gulch, enter quaking asp and oak timber

Chains	
	bears. N. E and S. W. thence ascend.
36.00	Tho's Thorleys cabin 10.00 chs, N.
39.97	Set an oak post 3 ft. long 4 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face dig pits: 18 X 18 X 12 ins. E. and W. of post 3 ft. dist: and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor. from which.
	A quaking asp 5 ins diam: brs. N. 3° E.: 19 lks dist marked 1/4 S. B. T.
	A quaking asp 5 ins. diam: brs. S. 25° W. 2.33 chs: dist: marked 1/4 S. B. T.
48.00	Leave pine and ~~oak timber~~ brs. N. and S.
74.00	Leave quaking asp enter oak brs. N. and S.
79.94	The cor. of secs. 9. 10. 15. and 16
	Land Mountainous
	Soil, clay, sand and loam stony in gulch: 1st and 4th rates.
	Timber, pine, quaking asp and oak.
	Mountainous or heavily timbered land 79.94 chs.
	September 14. 1895 At this cor. at 11h. 56m. a. m. l. m. t. I set off 3°. 18'. N. on the decl. arc. and observe the sun on the meridian, resulting latitude 37°. 31'. N.

	N. 0°. 02'. W. bet. secs. 9. and 10.
	Cov ascending land through large oak undergrowth
2.50	Top of ridge about 10 ft. above sec. cor. brs. E. and W. descend.
16.60	Bottom of gulch about 80 ft. below ridge drains N. E. ascend.
37.50	Top of spur, about 100 ft. above gulch brs. N. E. and S. W. descend.
40.00	An oak 6 ins. diam: for 1/4 sec. cor. I marked 1/4 S. on W. side from which.
	An oak 6 ins diam brs. N. 37 1/2° W. 4 lks dist: marked 1/4 S. B. T.
	An oak 9 ins. diam. brs. E. 32 lks. dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 20 ft. above the last sec. cor.
40.50	Frank B. Jackson's log cabin 16.00 chs. W.
45.00	Leave oak timber brs. E. and W.

Subdivision of T 38 S. R. 10 W. Continued

Chains

57.70 Enter scattering pines also begin steep descent to gulch bears E. and W.

62.00 Bottom of gulch about 25 ft below 1/4 sec cor. drains N 15° E. Ascend.

65.00 Top of N.E. Slope of spur about 50 ft above gulch Descend

67.50 Bottom of main gulch about 100 ft below top of N.E. Slope of spur drains N 75° E. Ascend

71.50 Top of Sand Stone Cliff on N.E. Bank of gulch about 125 ft above bottom. Bears pine timber Enter oak and scattering quaking asp timber

80.00 Set a sandstone 36 X 7 X 6 ins 27 ins in the ground for cor of secs. 3. 4. 9. and 10. Marked with 8 Notches on S. and 3 Notches on E edges. dig pits 18 X 18. 12. ins. in each sec 5 1/2 ft dist. And raise a mound of Earth 4 ft base 2 ft high W of cor. from which

A quaking asp 15 ins diam bears N 54 1/4° E. 2.86 Chs dist Marked T 38. S. R. 10 W. S. 3. B.T.

A quaking asp 5 ins diam bears N 51° W. 1.35 Chs dist Marked T 38. S. R. 10. W. S. 4. B.T.

An oak 6 ins diam bears S. 14° W 1.52 Chs dist Marked T 38. S. R. 10 W. S. 9 B.T.

A quaking asp 5 ins diam bears S. 32° E. 1.91 Chs dist marked T. 38. S. R. 10 W. S. 10 B.T.

Land Mountainous

Soil Loam. Clay and sand some stone in gulch

1st and 4th Rates

Timber. Pine quaking asp and oak.

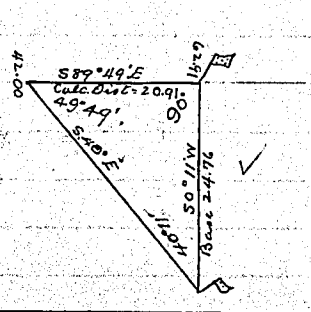
Mountainous Pined. 80.00 Chs.

S. 89° 49' E on a random line bet secs. 3 and 10

40.00 Set temp 1/4 Sec cor.

42.00 To West Bank of gulch.

To determine the distance across I set a flag on line on E. side of Gulch and as it is impracticable to measure a base line from this Point I set another flag at S end of my Prospective base line which from this point bears S. 40° E. then from the flag ahead



Subdivision of T. 38. S. R. 10. W. Continued

Chains

Set on line on E side of Gulch I measure my base line 30° 11 W. 24.76 Chs to the flag set at S. end of base therefore the distance is cotan 49°49 X base or 0.84457 X 24.76 = 20.91 Chs which added to 42.00 Chs Makes

62.91 To East Bank of Gulch

79.98 Intersect N and S. Line 3 lks S. of cor of secs 2.3. 10 and 11

Thence I run

N 89°50 W on a true line bet secs 3 and 10

Over ascending land through quaking asp and oak timber

1.25 Top of ridge about 10 ft above sec cor bra S.E. and N.W. descend

17.07 To East bank of Gulch enter Pine and scattering cedar bears N and S.

This gulch is about 750 ft deep a branch of the Virgin river 6 ins deep 12 lks wide in bottom water clear and cold course S.

[illegible] To W. Bank of Gulch bra N and S.

[illegible] Set a sand stone 30 x 18 x 6 ins 23 ins in the ground for 1/4 sec cor Marked 1/4 on N face and raise a mound of stone 2 ft base 1 1/2 ft high N of cor Pits impracticable from which

A Cedar 7 ins diam bears S. 35° E. 39 lks dist marked 1/4 S. B. T.

A Pine 12 ins diam bears N 15° E 76 lks dist marked 1/4 S. B. T.

This 1/4 sec cor is about 75 ft below the last sec cor bears Pine and Cedar enter quaking asp and oak bears N and S.

[illegible] Top of S slope of small spur about 50 ft above 1/4 sec cor Descend

[illegible] Bottom of hollow about 15 ft below Top of S Slope of spur Bearing N. E. ascend

[illegible] The cor of secs 3. 4. 9. and 10.

This sec cor is about 1.25 ft above the last 1/4 sec. cor Land Mountainous

Soil Clay and sand Loam some stone in gulch 1st and 11th rates

Timber Pine quaking asp oak and scattering Cedar Mountainous or heavily timbered Land 79.98 Chs.

Subdivision of T. 38. S. R. 10 W. continued

Chains

N 0° 02' W. on a true line bet secs. 3 and 4.
over ascending Land through quaking asp and oak timber
11.16 Intersect N body of Top 18.33 Chs. [illegible] cor of secs.
2, 3, 34 and 35 which is a sand stone
7 X 10 X 5 ins. above ground marked and witnessed
as described by the surveyor General.
A quaking asp 12 ins diam bears S. 87° E. 20 lks. dist.
marked T 38. S. R. 10. W. S. 2. B. T.
I obliterate the marks on this Tree
A quaking asp 6 ins diam bears S. W. 120. lks dist
Marked T 38. S. R 10. W. S. 3. B. T.
I obliterate the marks on this tree
The other trees remain as originally marked
Set a chained quaking asp Post 3 ft long
4 ins sq. 24 ins in the ground for closing
cor of secs. 3 and 4 Marked C. C. T. 38. S. R.
10 W on S.
S. 3 on E. and
S. 4. on W. face with 3 grooves on E and W.
faces from which
A quaking asp 6 ins diam bears S. 62° E. 121 lks
dist. Marked T. 38. S. R. 10 W. S. 3. B. T.
A quaking asp 10 ins diam bears S. 25° W. 1.28 Chs dist
Marked T 38. S. R 10 W. S. 4. B. T.
Land Mountainous
Soil Clay sand and loam 1st rate
Timber Quaking asp an oak
Mountainous Land. 11.16. Chs
September. 14. 1895.

September. 16. 1895. At the cor of secs 4. 5. 32 and 33.
which I established Sept 7. at 7hr 30m a. m
b. m. t. I set off 37° 28' N on the lat. arc;
2° 36' N on the ded. arc; and determine a true
Meridian with the solar.
Thence I run.
N 0° 03' W. bet. secs. 32 and 33.
Over descending Land through Pine quaking asp
timber and oak undergrowth
0.45 Bottom of Creek a Branch of the Virgin River. 12 ft.

Subdivision of T 38. S. R. 10. W continued

Chains	
	below sec cor. Stream 4 ins. deep 6 lks wide with water Clear and cold course. N. E. ascend
2.50	Leave Pine and quaking asp. timber brs. N. E. and S. W.
13.75	Top of E. slope of spur about 85 ft above creek Descend
19.50	Bottom of ravine about 30 ft below Top of E Slope of Spur drains. N 75° E. ascend
35.75	Top of E. Slope of spur about 50 ft above bottom of ravine descend
39.00	Bottom of ravine about 25 ft below top of E. Slope of spur drains E. ascend.
40.00	set a sand-stone 16 x 10 x 6 ins. 11 ins in the ground for 1/4 sec cor marked 1/4 on W face and raise a mound of stone 2 ft base 1 1/2 ft. high W. of cor. Pits impracticable oak undergrowth too small to mark.
	This 1/4 sec cor. is about 75 ft above the last sec cor
41.75	Top of spur about 10 ft above 1/4 sec. cor. bears. N. E. and S. W. Descend.
60.00	Leave oak enter Pine quaking asp. timber bears E and W
74.00	Enter dense willows bears N. E and S. W.
74.50	A Branch of the Virgin River about 125 ft below 1/4 sec cor stream 3 ins deep 3 lks wide current swift water. Clear and cold. course N. 60° E. Ascend.
76.00	Leave willows. bears. N. E. and S. W
80.00	Set a sand stone 20 x 10 x 8 ins 15 ins in the ground for cor of secs 28. 29. 32 and 33. marked with one notch on S. and 4 notches on E. Edges and raise a Mound of Stone 2 ft. base. 1 1/2 ft high W of cor. Pits impracticable from which,
	A Pine. 36 diam bears S. 88° E. 1.85 Chs dist marked T 38. S. R. 10 W. S. 33. B. T.
	No other trees within Limit.
	This sec cor is about 80. ft above the creek.
	Land Mountainous
	Soil Clay sand and Loam; 1st rate.
	Timber, Pine and Quaking asp.
	Under growth. scrub oak and Willows.
	Mountainous Land 80.00 Chs.
	East on a random line bet secs. 28. and 33.
40.00	Set Temp. 1/4 Sec cor

Subdivision of T 38. S. R. 10 W Continued

Chains	
80.06	Intersect N and S. line 12 lks S. of cor of secs. 27. 28. 33. and 34.
	Thence I run.
	S. 89° 55 W on a true line. bet secs. 28 and 33.
	Over descending Land through oak brush.
19.00	Bottom of ravine about 125 ft. below sec. cor. drains. S. 15° E. Ascend
31.00	Top of spur about 40 ft above ravine bears N 15° W and S. 15° E. Descend.
39.00	Enter scattering Pines bears S.E. + N.W.
40.03.	Set a sand stone 14 x 10 x 4 ins, 9 ins in the ground for 1/4 sec cor marked 1/4 on N face, and raise a mound of stone 2 ft. base 1 1/2 ft high N of cor.
	Pits impracticable from which,
	A Pine 28 ins diam bears S. 32 1/2° W 1.42 Chs. dist. marked 1/4 S. B. T.
	A oak 3 ins diam bears N. 15° E. 17 Lks dist marked 1/4 S. B. T.
	This 1/4 sec cor is about 150 ft below the cor. of secs 27. 28. 33 & 34.
43.75	Begin steep descent, bears N. 60° W. and S. 60° E.
44.25	A Branch of the Virgin River. About 75 ft. below 1/4 sec cor stream 8 ins. deep 15 lks wide water clear an cold course S. 60° E. thence steep ascent.
45.30	Top of S. W. Bank of creek enter quaking asp timber brs. N.W. thence gradual ascent.
54.50	Top of spur brs N E. and S. W. begin more abrupt ascent.
67.00	Top of spur about 50 ft above foot brs. N E. and S. W. Descend
68.00	A small creek about 15 ft below top of spur stream 3 ins. deep 3 lks wide. water clear and cold course N. 60° E. Ascend.
77.00	Leave oak bears N.W. and S.E.
80.06.	The cor of secs. 28. 29. 32 and 33.
	This sec cor is about 175 ft above the 1/4 sec cor bet secs 28 and 33.
	Land Mountainous.
	Soil. Clay Loam gravel and stone; 1st and 4th rates
	Timber scattering Pines.
	Under-growth Scrub oak.
	Mountainous Land 80.06 Chs.
	N 0° 03' W bet secs 28 and 29. over ascending Land through Pine. and quaking asp Timber.
1.50	Enter oak under growth bears E and W also top of E. Slope of spur about 40. ft above sec cor. bears E. and W Descend

Subdivision of T. 38. S. R. 10 W. Continued

Chains

40.00 Set a sand stone 20. x 14 x 5 ins. 15 ins. in the ground for 1/4 sec cor Marked 1/4 on W face and raise a mound of Stone 2 ft base 1½ ft high W. of cor. pits impracticable, from which

An oak. 7 ins diam bears S 87° W 13. lks dist Marked 1/4 S. B. T.

A quaking asp 4 ins diam bears N 85° E 23. lks dist, marked 1/4 S. B. T.

This 1/4 sec cor is about 180 ft below the cor to secs 28. 29. 32. 33

44.00 S. Bank of Creek begin steep descent bears S. E. and N. W

44.56 Bottom of Creek (a Branch of the Virgin River) about 75 ft below 1/4 sec cor Stream 10 ins deep 12 lks wide water Clear and Cold current swift course S. E. ascend

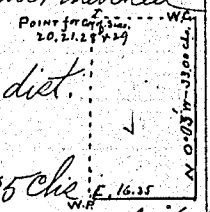
45.50 Leave quaking asp timber bears S. E. and N. W.

47.00 To foot of impassable cliff bears E. and W also leave Pine timber bears E. and W.

Set a sand stone 16 x 12 x 5 in 11 ins in the ground for witness Point marked W. P. on N. E. face and raise a mound of stone 2 ft base 1½ ft high W of stone Pits impracticable from which

A Pine 8 ins diam bears S. 82° W. 76. lks dist marked W. P. B. T.

A Pine 16 ins diam bears S. 43° E. 1.25 chs dist. marked W. P. B. T.



To Pass the Cliff I offset as follows E. 16.35 chs N 0°03' W. 33.00 chs to a Point on N bdy of sec 28. 16.35 chs. E of

80.00 The Point for sec cor falls below Cliff where it is impracticable to Place it.

Set a sand stone 24 x 12. x 4 ins 18 ins in the ground for witness cor to the cor of secs 20. 21. 28 and 29.

Marked with W. C. or N. E. face with 2 notches on S and 4 notches on E edges and raise a mound of stone 2 ft base 1½ ft high W of cor Pits impracticable from which

A Lone Cedar 11 ins diam bears S. 20° E. 1.44 chs dist marked W. C. T 38. S. R. 10 W. S. 28. B. T.

A Lone Pine 20 ins diam bears N 15° W 1.21 chs dist Marked W. C. T 38. S. R 10 W. S. 20 B. T.

No other trees within Limit.

This witness cor is about 600 ft above the 1/4 sec cor bet secs 28. and 29.

Land Mountainous.

Soil: Clay sand and loam N 33 chs stony 1st 4th rates

Subdivision of T 38, S. R 10 W continued

Chains

Timber scattering. Pine and quaking asp
Undergrowth Scrub oak.
Mountainous Land. 80.00 Chs.
September 16. 1895. at this cor. at 11hr 55m
A. M. L. M. T.
I set off 2° 31' N on the dedar and observe the sur
on the Meridian resulting Latitude 37° 29' N.

N 89° 55' E on a random line bet secs 21 and 28
40.00 Set temp 1/4 sec cor. (counted from point for Sec. Cor)
80.08 Intersect N and S line 10 lks W. of cor of secs. 21. 22. 27 and 28
Thence I run
West on a true line bet secs. 21 and 28
Over ascending Land through quaking asp timber
10.50 Leave quaking asp. bears N and S.
14.00 Enter oak timber bears N and S.
15.00 Top of spur about 70 ft above sec cor bears N 30° E
and S. 30° W. Descend.
21.00 Enter quaking asp timber bears. W. E. and S. W.
26.40. Bottom of Gulch about 60 ft below the top of spur
drains S. 30° W. Ascend
27.00 Leave quaking asp timber N 30° E. and S 30° W
39.00 A Patch of quaking asp about 5 acres. 1.50 Chs N
40.04. Set an oak Post 3 ft long. 4 ins sq 24 ins in the
ground for 1/4 sec cor. Marked 1/4 on N face
dig Pits 18x18x12 ins E and W of Post 3 ft dist. and
raise a mound of earth 3 1/2 ft base 1 1/2 ft high
N of cor. from which
A oak 5 ins diam. bears N 55° E. 70 lks dist. marked
1/4 S.B.T.
A quaking asp 4 ins diam. bears N 50° W. 1.66 chs
dist Marked 1/4 S. B. T.
51.00 Top of spur about 75 ft above 1/4 sec cor. bears
N and S. Descend.
63.73. The witness cor of secs 20. 21. 28. and 29.
The witness cor is about 120 ft below
top of Spur.
80.08 The Corner to Secs - 20-21-28 & 29 not set.
Land Mountainous
Soil. Clay sand and loam and stone on W.
end 1st and 4th rates
Timber quaking asp

Subdivision of T 38. S. R. 10 W. continued.

Chains

Undergrowth scrub oak.
Mountainous Land 80.08. Chains

I continue my off set line as follows.
N 0°03' W. from the witness cor. 19.50 chs.
West on off set line 16.35 Chains
19.50 A Point on line on N side of Precipitous and impassable mountain Slope.
Set a sand stone 18.X6X6. ins 12 ins in the ground for witness cor of secs. 20, 21, 28 and 29. marked W. C. on N.E. face with 2 notches on S. and 4 notches on E edges. and raise a mound of stone 2 ft base. 1½ ft high W of cor. Pits impracticable
Thence I run N 0°03' W on true line bet secs 20, and 21.
24.00 Enter pine timber bears E. and W.
24.50 Top of W. Slope of Spur about 60 ft. above witness cor. descend.
30.00 Bottom of hollow about 50 ft below top of W. slope of spur. Drains W. ascend.
35.00 Leave Pine enter quaking asp. timber bs E and W.
40.00 Set a sand stone 48 X 12 X 6 ins 36 ins. in the ground for 1/4 sec cor. Marked 1/4 on W face and raise a mound of stone 2 ft base 1½ ft high. W of cor Pits impracticable from which
A quaking asp 12 ins diam. bears N 30° E 88 lks dist Marked 1/4 S.B.T.
A quaking asp 14 ins diam bs S. 73° E. 79 lks. dist Marked 1/4. S. B. T.
This 1/4 sec. cor. is about 1/2 ft above the witness cor
43.00 Leave oak bears. E. and W.
73.50 Top of ascent about 80. ft. above 1/4. sec cor. bears E. and W. thru gradual descent.

Subdivision of T 38 S. R. 10 W continued

Chains

80.00 Set a quaking asp Post 3 ft long 4 ins square with a quart of charcoal 24 ins in the ground for cor of secs 16. 17. 20. and 21 Marked
T 38. S.; S. 16. on N.E.
R 10 W. S. 21. on S.E.
S. 20. on S. W. and
S. 17. on N. W. faces
with 3 Notches on S. and 4 Notches on E. edges
dig. pits 18 x 18 x 12 ins. in each sec 5½ ft. dist.
and raise a mound of earth 4 ft base 2 ft high. W of cor. from which,
A quaking asp 5 ins. diam bears N 75° E. 64 lks dist Marked T. 38. S. R 10 W. S. 16 B. T.
A quaking asp 5 ins. diam. brs N 9¼° W. 74 lks. dist Marked T 38. S. R. 10 W S. 17 B. T.
A quaking asp 6 ins. diam bears S. 31¾° W. 88 lks. dist marked. T 38. S. R 10 W. S. 20 B. T.
A quaking asp 5 ins diam bears S 54° E. 47 lks. dist. Marked T 38. S. R. 10 W. S. 21 B. T.
This sec. Cor. is about 50 ft above the last. 1/4 sec cor.
Land Mountainous.
Soil, N 40.00 Chs. Clay and loam; S. 40.00 Chs. stony 1st and 4th rates
Timber. quaking asp and Pine.
Under-growth scrub oak.
Mountainous Land 80.00 Chs.

September. 16. 1895.

September 17. 1895. At this cor of secs 16. 17. 20. and 21. which I established September. 16. At 7 hr 30 m A.M. b m. t. I set off 37° 30 N on the lat. arc; 2° 13' N on the ded arc, and determine a true meridian with the Solar Thence I run.
East on a random line bet secs 16. and 21.
40.00 Set Temp. 1/4 sec cor.
79.94. Intersect N and S. line. 6 lks N. of cor of secs. 15. 16. 21. and 22.
Thence I run
N 89° 57' W on a true line bet. secs. 16 and 21.

Subdivision of T. 38. S. R 10. W continued

Chains	
	Over ascending Land through oak and and quaking asp timber
10.90	A Small Spring 25 lks S. Stream of Clear cold water 1 lk wide one inch deep Flows E.
12.00	Leave quaking asp bears N and S.
16.00	Top of spur about 80 ft above sec cor bears N and S. Descend
20.00	Leave oak bears N and S.
24.00	Bottom of hollow about 60 ft below top of Spur drains S. 15° E. ascend
26.00	Enter quaking asp bears N and S.
30.00	John G. Webster log Cabin, 18.00 chs South.
39.97	Set a Sand stone 14 X 12 X 12 ins 9 ins in the ground for 1/4 sec cor Marked 1/4 on N face, dig Pits 18 X 18 X 12 ins E and W of stone 3 ft dist and raise a mound of Earth 3 1/2 ft base 1 1/2 ft high N of cor from which
	A quaking asp 7 ins diam bears S 2° W. 18 lks dist marked 1/4 S. B. T.
	A quaking asp 5 ins diam bears N 57° W. 37 lks dist marked 1/4 S. B. T.
42.00	Enter oak bears N and S.
44.00	Leave quaking asp bears N and S.
50.00	Enter quaking asp bears N E and S W.
60.00	Leave quaking asp bears N and S. Thos. J. Jones' Cabin 17.00 chs S.
62.30	Top of Miners Peak about 200 ft above 1/4 sec cor bears S 16° W. and N 16° E. 12 chs thence N W. Descend
66.50	Leave oak enter quaking asp bears N and S.
79.94	The cor of secs. 16. 17. 20 and 21.
	This sec cor is about 2.25 ft below top of Miners Peak
	Land Mountainous.
	Soil, Clay loam and Sand some Volcanic stone on Miners Peak 1st and 4th rates.
	Timber quaking asp and oak.
	Mountainous Land. 79.94. Chains.
	N 0° 03' W. bet secs. 16 and 17.
	Over descending land through quaking asp timber
17.00	Bottom of descent about 35 ft below sec cor bears E and W. ascend.
35.00	Top of Spur of miners Peak about 40 feet above point

Chains

of ascent bears E. and W. Descend

40.00 Set a chained quaking ash post 3 ft long 4 ins sq. 24 ins in the ground for 1/4 sec cor Marked 1/4 S. on W. face. dig Pits 18 x 18 x 12 ins N and S. of post 3 ft dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W of cor from which.

A quaking ash 8 ins diam bears S. 87° E.; 70 lks dist marked 1/4 S. B.T.

A quaking ash 6 ins diam bears S. 70° W. 32 lks dist Marked 1/4 S B T.

47.50 Bottom of descent about 25 ft below 1/4 sec cor bears E. and W. ascend

63.50 Top of E. Slope of spur about 100 ft. above Point of ascent. Descend

79.23 Road from David Thorleys ranch to Cedar City bears S. 60° E. and N 60° W.

80.00 Set a chained quaking ash Post 3 ft. long 4 ins sq. with a quart of Char-coal 24 ins in the ground for cor of secs 8. 9. 16. and 17 Marked.

T 38. S. S. 9 on N. E.
R. 10 W. S. 16 on S. E.
S. 17 on S. W.
S. 8 on N. W. face

with 4 notches on S. and E edges dig Pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor. from which.

A quaking ash 10 ins diam. bre N 26° W. 54 lks. dist marked T. 38 S. R 10 W. S. 8 B.T.

A quaking ash 11 ins diam bears N. 58° E. 71 lks. dist. Marked T. 38. S. R. 10 W. S. 9. B.T.

A quaking ash 9 ins. diam bears S. 23° E. 32 lks. dist Marked T. 38. S. R. 10 W. S. 16 B.T.

A quaking ash 13 ins. diam. bre S. 50° W. 7 lks dist marked T 38 S. R. 10 W. S. 17. B.T.

This sec cor is about 125 ft. below top of spur.

Land Mountainous.

Soil. Clay Loam and Sand 1st rate.

Timber. Quaking ash

Mountainous Land 80.00 Chains

S. 89° 57 E. on a random line bet secs. 9. and 16.

Subdivision of T 38 S. R. 10 W continued

Chains	
40.00	Set temp 1/4 sec cor
79.90	Intersect N and S. Line 20 lks S of cor of secs. 9. 10. 15. and 16.
	Thence I run
	S. 89° 54' W. on a true line bet. secs 9 and 16 over Slight ascending land.
5.50	Enter quaking asp and oak bears N. E. and S. W.
15.00	Top of ascent brs N. E. and S. W. descend.
20.00	Leave quaking asp. bears N and S.
23.00	Leave oak enter quaking asp bears N and S.
39.95	Set an oak Post 3 ft long 4 ins. square 24 ins in the ground for 1/4 sec cor marked 1/4 S. on N. face dig Pits 18 X 18 X 12 ins E and W of Post 3 ft. dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft. high N. of cor from which
	A quaking asp 5 ins diam. bears S. 20° E. 32 lks. dist. Marked 1/4 S. B. T.
	A quaking asp 4 ins diam. bears N 77° W. 18 lks dist. marked 1/4 S. B. T.
54.50	Bottom of descent about 25 ft. below 1/4 sec. cor. bears N. E. and S. W. ascend.
55.89	A quaking asp 18 ins diam. on line I mark with 2 Notches on E. & W. sides
59.00	Top of N Slope of spur about 30 ft above Point of ascent Descend
64.80	Bottom of hollow about 25 ft below top of Spur drains N 30° E. Ascend
79.90	The cor of secs 8. 9. 16 and 17.
	Land Mountainous
	Soil Clay. sand and loam 1st rate
	Timber, quaking asp and oak.
	Land Mountainous 79.90 Chains
	September 17, 1895 at this cor 11hr 54m A M l m t. I set of 2° 8' N on the ded arc; and observe the sun on the meridian resulting lat. 37° 31' N.

	N 0° 03' W. bet secs 8 and 9.
	Over descending land through quaking asp timber
11.10	Bottom of hollow about 35 ft below sec cor

Subdivision of T 38 S. R 10 W continued

Chains	
	Chains S. 75° E ascend
19.00	Top of ascent about 25 ft above hollow leave E and W. Descend
33.50	Bottom of hollow about 40 ft below Point of descent. Chains E. ascend
40.00	Set a sand stone 18 X 6 X 6 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face and raise a mound of stone 2 ft. base 1 1/2 ft. high W of cor. Pits impracticable from which
	A quaking asp 6 ins diam bears S. 27° E. 1.59 Chs dist. marked 1/4 S. B. T.
	A quaking asp 9 ins diam bears S. 25° W. 3.01 Chs dist marked 1/4 S. B. T.
	Thru 1/4 sec cor is about 35 ft above bottom of hollow.
41.00	Top of ridge 5 ft above 1/4 sec cor leave E and W. Descend.
60.80	Bottom of hollow about 80 ft below top of ridge. Chains W. E. ascend.
76.50	Leave quaking asp timber, enter oak undergrowth leave E and W.
79.00	Top of W slope of knoll about 75 ft above bottom of hollow Descend.
80.00	Set a sand stone 24 X 6 X 6 ins 18 ins in the ground for cor of secs 4. 5. 8 and 9 marked with 5 notches on S. and 4 notches on E. edges and raise a mound of stone 2 ft base 1 1/2 ft. high W of cor Pits impracticable from which
	A oak 9 ins diam bears N. 3° W. 2.48 Chs dist Marked T 38 S. R. 10 W. S. 5. B. T.
	Undergrowth too small to mark.
	Land Mountainous
	Soil Clay sand and Loam: 1st rate
	Timber quaking asp and oak.
	Mountainous Land 80.00 Chains.

	N 89° 54' E on a random line bet secs 4 and 9.
40.00	Set temp 1/4 Sec cor
79.88	Intersect W. and S. line 3 lks N of cor of secs 3. 4. 9 and 10
	Thence S. run
	S. 89° 55' W on a true line bet secs 4 and 9.

Subdivision of T 38 S. R 10 W Continued

Chains	
	Over ascending land through quaking asp timber and oak undergrowth.
1.50	Leave quaking asp bears N and S.
19.50	Top of S Slope of Spur about 75 ft above sec. cor. Descend
24.10	Bottom of hollow about 20 ft. below top of S. Slope of Spur. drains S. ascend.
26.00	Leave oak. enter quaking asp bears N and S.
29.00	Top of S. Slope of spur. about 25 ft above bottom of hollow; Descend
39.00	Bottom of hollow about 25 ft. below top of S. slope of Spur drains S 60° E thence slight ascent.
39.94	Set a sandstone 36 X 12 X 5 ins 27 ins in the ground for 1/4 sec. cor marked 1/4 on N face dig Pits 18 X 18 X 12 ins. E and W. of stone, 3 ft. dist and raise a mound of Earth 3½ ft. base 1½ ft. high N. of cor. from which. A quaking asp 14 ins. diam. brs S. 10° W. 57 lks dist Marked 1/4 S. B. T. A quaking asp 6 ins diam brs N 62° W. 88 lks dist Marked 1/4 S. B. T.
73.00	Leave quaking asp timber enter oak undergrowth bears N and S.
75.50	Top of small knoll about 175 ft above 1/4 sec Cor. thence gradual. Descent.
79.88	The cor of secs 4. 5. 8 and 9. This sec cor is about 10 ft lower than top of knoll Land Mountainous. Soil black Loam. Clay and sand; 1st rate Timber quaking asp an oak Mountainous land 79.88 Chains.
	N 0° 03' W on a true line bet. secs 4 and 5 Over descending land through scattering oak undergrowth
11.46	Intersect N. bdy of top 18.43 Chs [illegible] cor of secs. 3. 4. 33. and 34. which is a sand stone 7 X 6 X 4 ins. above ground. marked and witnessed as described by the surveyor General A quaking asp 12 ins diam brs S. 26° W 15 lks dist Marked T 38 S. R 10 W S. 4 B T. I. at lit is at the markings on this tree.

Subdivision of T 38. S. R. 10. W Continued

Chains

A quaking asp 13 ins diam bears S. 42° E 20 lks dist
Marked T 38. S. R 10. W. S. 3 B. T.
I obliterate the Marks on this tree.
The other trees remain as originally marked
Set a sandstone 24 X 12 X 6 ins 18 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
and raise a mound of stone 2 ft base 1½ ft high
S. of cor. Pits impracticable.
Land Mountainous
Soil Clay, sand and Loam 1st rate
No timber
Under growth oak.
Mountainous Land 11.46 chs

September 17. 1895

September 18, 1895: At the cor of secs 5. 6, 31 and
32 on S. Bdy. of tp. which I established
Sept. 7. 1895: at 7hr 12m A. M. l. m. t.
I set off. 37° 28 N on the lat arc, 1° 50' N on
the dec. arc, And determine a true Meridian
with the Solar.
Thence I run
No° 03 W. bet secs. 31 and 32.
over ascending Land through quaking asp timber.
15.00 Top of ascent about 50 ft. above sec. cor bs
E. and W. thence nearly level.
28.08 A quaking asp 15 ins. diam. on line I mark with 2
Notches on N and S. sides.
40.00 Set a sandstone 24 X 14 X 3 ins. 18 ins in the ground
for ¼ sec cor Marked ¼ on W. face dig Pits 18 X 18 X 12
ins N and S of stone 3 ft. dist. and raise a
Mound of earth 3½ ft base 1½ ft high. W of
Cor. from which,
A quaking asp. 5 ins. diam. bears S 68° W. 68 lks. dist
Marked ¼ S. B. T.
A quaking asp 3 ins. diam bears N 42° E 60 lks dist
Marked ¼ S. B. T.
This ¼ sec. cor is about 50 ft. above the last sec. cor
50.00 John A Berrys Corral 5 chs W. Log cabin 7.50 Chs W
53.00 Leave timber begin steep descent bears E and W.

Subdivision of T 38 S. R. 10 W Continued

Chains	
62.90	Bottom of hollow about 100 ft. below Point of descent. drains E 4.00 Chs. thence S 15° E. Ascend
75.00	Top of ascent about 50 ft. above hollow bears E and W. Descend.
76.00	Enter quaking asp timber bears E and W
79.95	Leave timber bears S.E. and N. W
80.00	Set a sandstone 24 X 8 X 6 ins. 18 ins. in the ground for cor of secs 29.30 31. and 32. Marked with 1 notch on S. and 5 Notches on E. Edge dig Pits 18 X 18 X 12 ins. in each sec 5½ ft dist and raise a mound of earth 4 ft base 2 ft high W of cor from which. A quaking asp 10 ins diam bears S. 71½° W. 68 lks dist Marked T 38. S. R. 10 W. S 31 B.T. A quaking asp 5 ins diam bs S. 2° E 57 lks dist Marked T 38. S. R 10 W. S. 32. B.T. Norther tree within Land Thus sec cor is about 50 ft lower than the 1/4 sec cor Land Mountainous Soil black Loam Clay and 1st rate Timber Quaking asp. Mountainous Land 80.00 Chs
	East on a random line bet secs. 29. and 32
40.00	Set temp. 1/4 Sec. cor.
80.16	Intersect N and S line 9 lks S of cor of secs 28. 29. 32 and 33. Thence Run. S. 89° 56' W on a true line bet secs. 29. and 32. over ascending land through scattering Pine and Quaking asp timber
2.50	Leave timber enter oak brush bs N.E. and S.W.
7.50	Top of S. Slope of spur 60 ft above sec cor descend
21.00	Bottom of ravine about 150 ft below top of spur drains S. E. Leave oak brush enter dense quaking asp timber bs N.E. and S.W. thence steep ascent
40.08	Set a sand stone 16 X 7 X 5 ins. 11 ins. in the ground for 1/4 sec cor marked 1/4 N face and raise a mound of stone 2 ft. base 1½ ft high N of cor Pits impracticable from rock

Subdivision of T. 38 S. R. 10 W. Continued

Chains	
	A quaking asp 4 ins. diam: bears N. 15° E. 23 lks. dist: marked 1/4 S. B. T.
	A quaking asp 4 ins. diam bears S. 32½° W. 46 lks dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 250 ft. above bottom of ravine.
55.50	Leave timber bears N. 30° W. and S. 30° E.
57.50	Top of steep ascent about 600 ft. above 1/4 sec. cor. thence gradual ascent.
80.16	The cor. of secs. 29. 30. 31 and 32.
	This sec. cor. is about 625 ft. above the 1/4 sec. cor.
	Land Mountainous.
	Soil, clay, sand loam and stony 1st and 4th rates.
	Timber quaking asp and pine.
	Undergrowth, oak brush.
	Mountainous, or heavily timbered land, 80.16 chs.
	N. 0° 03' W. bet. secs. 29. and 30.
	Over descending land.
14.20	A spring branch clear, cold water, 1 in. deep, 1 lk. wide in bottom of hollow, about 50 ft. below sec. cor. course N. 60° E. ascend.
15.00	Top of ascent about 5 ft. above bottom of hollow bears N. 60° E. and S. 60° W. descend.
17.00	Enter quaking asp, timber bears E. and W.
21.00	Begin steep descent along E. slope of Mountain bears N. 30° W. and S. 30° E.
23.00	Enter dense willows bears E. and W.
26.00	Leave dense willows bears E. and W.
40.00	Set a sandstone 24 x 10 x 10 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist: and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor. from which:
	A quaking asp 4 ins. diam: bears S. 87° E. 12 lks. dist: marked 1/4 S. B. T.
	A quaking asp, 4 ins. diam: bears, N. 47° W. 15 lks. dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 250 ft. below the cor. to secs. 29. 30. 31 and 32.
44.50	Enter heavy pine timber bears N. W. and S. E.
53.60	Bottom of Gulch about 400 ft. below 1/4 sec. cor. drains E. Begin steep ascent.

Subdivision of T. 38 S. R. 10 W.—Continued.

Chains	
62.50	Top of E. slope of mountain about 350 ft. above gulch descend.
71.50	Leave pine timber bears E. and W.
79.00	Enter pine timber bears E. and W.
79.47	A Spring branch, stream 2 ins. deep: 3 lks. wide water, clear and cold, current swift course E. over steep mountain slope.
80.00	Set a sandstone 14 x 12 x 6 ins. 9 ins. in the ground for cor. of secs. 19. 20. 29. and 30. marked with 2 notches on S. and 5 notches on E. edges; and raise a mound of stone 2 ft base 1½ ft. high W. of cor. pits impracticable, from which
	A pine 18 ins diam bears N. 2½° W. 53 lks. dist: marked T. 38 S. R. 10 W. S. 19. B. T.
	A pine 16 ins. diam: bears S. 37° E. 41 lks. dist: marked T. 38 S. R. 10 W. S. 29. B. T.
	A pine 15 ins. diam: bears S. 20° W. 36 lks. dist: marked T. 38 S. R. 10 W. S. 30. B. T.
	A sandstone pillar 30 ft. high bears N. 5° E. 45 lks. dist. Marked T 38 S-R 10 W 5.20 B.C.
	This sec. cor. is about 300 ft. below the last ¼ sec. cor.
	Land Mountainous.
	Soil, black loam and clay 1st rate.
	Timber, pine and quaking asp.
	Mountainous or heavily timbered land 80.00 chs.
	September 18. 1895, At this cor. at 11h. 54m. a.m. l.m.t. I set off 1° 45' N. on the decl. arc: and observe the sun on the meridian resulting lat. 37° 29' N.
	The witness cor. to cor. of secs. 20, 21. 28. and 29 on E. side of canon and at the top of a precipitous bluff being plainly visible. I run for said cor. East on a random line bet. secs. 20 and 29.
40.00	Set Temp. ¼ sec. cor.
62.50	To foot of impassable bluff bears N. 30° W. set temp. witness cor. then off set as follows:
	S. 0° 03' E. 33.00 chs. then on off set line.
	East 17.66 chs. to.
80.16	Intersect N. and S. line at witness cor. to cor. of secs. 20 21. 28 and 29.
	Thence I run W. on off set line 17.66 chs.
	Thence N. 0° 03' W. 33.00 chs to a point on true line at foot of impassable bluff 17.66 chs. W. of point for sec. cor. where I,

Subdivision of T. 38. S.R. 10 W.—Continued

Chains	
17.66	Set a sandstone 15 x 7 x 5 ins. 10 ins. in the ground for witness cor. to the cor. of secs. 20. 21. 28 and 29. marked W.C. on N.E. face with 2 notches on S. and 4 notches on E. edges: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable:
	Thence I run.
	West on the line, bet. secs. 20 and 29.
26.90	Branch of the Virgin River, stream 8 ins. deep, 16 lks. wide, current, swift, course S.E. begin steep ascent.
40.08	Set a sandstone 17 x 6 x 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face: and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. pits impracticable:
	This ¼ sec. cor. is about 300 ft. below the witness cor.
45.50	Enter pine and quaking asp timber bears N. and S.
80.16	The cor. of secs. 19. 20. 29 and 30.
	This sec. cor. is about 750 ft. above branch of Virgin River.
	Land Mountainous
	Soil, stony 4th rate.
	Timber pine and quaking asp.
	Mountainous land 80.16 chs.
	N. 0° 03' W. bet. secs. 19 and 20.
	Over descending E. slope of mountain through pine and quaking asp timber.
13.31	A spring branch 1 in. deep 1 lk. wide course N.E.
37.30	Crystal springs course E.
40.00	Set a sandstone 20 x 12 x 5 ins. 15 ins in the ground for ¼ sec. cor. marked ¼ on W. face: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable, from which:
	A pine, 18 ins. diam bears S. 31° W. 58 lks. dist. marked ¼ S.B.T.
	A pine, 15 ins. diam. bears S. 15° E. 83 lks. dist. marked, ¼ S.B.T.
	This ¼ sec. cor. is about 275 ft. below the last sec. cor.
63.30	A branch of Virgin River in bottom of canon about

Subdivision of T. 38. S. R. 10 W. – Continued.

Chains	
	250 ft. below 1/4 sec. cor. stream 10 ins. deep, 15 lks. wide, water, clear and cold, current swift course S. E. Ascend.
68.00	Leave timber enter scrub oak undergrowth bears S. E. and N. W.
80.00	Set a sandstone 20 x 8 x 8 ins. 15 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 raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable, undergrowth too small to mark.
	This sec. cor. is about 150 ft. above bottom of canon.
	Land Mountainous.
	Soil, black loam and clay W. 30.00 chs. stony 1st. and 4th. rates.
	Timber pine and quaking asp.
	Undergrowth scrub oak.
	Mountainous or heavily-timbered Land 80.00 chs.
	East, on a random line bet. secs. 17 and 20.
40.00	Set temp. 1/4 sec. cor.
80.08	I intersect N. and S. line 3 lks. S. of the cor. of secs. 16. 17. 20 and 21.
	Thence I run.
	S. 89°. 59'. W. on a true line bet. secs. 17 and 20.
	Cor gradually descending land through heavy quaking asp timber.
28.00	Leave timber, bears N. and S.
38.75	Begin steep descent, also enter small scattering quaking asp, and dense oak undergrowth, bears N. and S.
40.04	Set a sandstone 24 x 12 x 6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist: and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high N. of cor.
	This 1/4 sec. cor. is about 250 ft. below the cor. of secs. 16. 17. 20 and 21.
62.50	Bottom of gulch about 375 ft. below 1/4 sec. cor. A stream of clear, cold water, 2 ins. deep, 3 lks. wide in bottom Course S. Ascend.
70.00	Leave scattering quaking asp timber, also enter stony land, bro N. and S.
80.08	The cor. of secs. 17. 18. 19 and 20.
	This sec. cor. is about 100 ft. above bottom of gulch.
	Land Mountainous.
	Soil, black loam clay, sand and stony 1st. and 4th. rates.
	Timber quaking asp.
	Mountainous or heavily timbered land 80.08 chs.
	September 18. 1895

Subdivision of T 38. S. R. 10 W. Continued

Chaine

September 9. 1895. At the corner of secs 17. 18. 19 and 20 which I established September 8, at 7h 30m a.m. l. m. t. I set off 37°30' N on the lat. arc; 1°26' N on the ded arc and determine a true Meridian with the solar

Thence I run

N. 0° 03' W. bet. secs 17 and 8

One steep ascending stony Land through oak brush

1.60 Top of stony point about 120 ft. above sec cor thence descending along E. Slope of Mountain.

2.00 Enter scattering Pine timber bears N.E. and S.W.

17.50 Enter quaking asp timber and Chockecherry undergrowth bears E and W

26.50 Bottom of Gulch about 200 ft. below top of stony Point a stream of clear cold water 3 ins. deep 3 lks wide in bottom course S.E. begins steep Ascent

27.50 Leave timber and stony Land bears N.W. and S.E.

40.00 Set a sand stone 26 x 12 x 8. ins 19 ins. in the ground for 1/4 sec cor marked 1/4 on W. face and raise a mound of stone 2 ft. base 1½ ft high. W of cor Pits impracticable

This 1/4 sec cor is about 175 ft above bottom of Gulch

42.00 Top of W. Slope of Mountain about 15 ft. above 1/4 sec cor thence descend along N.W. Slope of Mountain

47.00 Leave oak enter quaking asp bs N.E. and S.W.

52.70 Bottom of Gulch about 125 ft below top of W. Slope of mountain a stream of clear cold water 3 ins deep 3 lks wide in bottom S. 30° W.

Leave quaking asp timber and Chockecherry undergrowth enter oak bears N. 30° E. and S. 30° W.

Begin steep ascent.

63.00 Leave oak undergrowth enter quaking asp timber bears E. and W.

69.00 Leave quaking asp timber bears E. and W.

70.00 Top of steep ascent bears N.E. and S.W. thence gradual descent.

77.00 Enter quaking asp timber bears E. and W.

80.00 Set a sand stone 20 x 10 x 8 ins 15 ins in the ground for cor of secs. 7 x 8. 17 x 18. marked with 4 notches on S. and 5 notches on E. edges and raise a Mound of stone 2 ft. base 1½ ft. high

Subdivision of T38. S. R10 W continued

Chains.

W. of cor Pits impracticable from which
A quaking asp 6 ins. diam brs N 47½° W 51 lks. dist
Marked T38. S. R. 10 W. S 7 B.T.
A quaking asp 5 ins. diam. brs N 13° E. 62 lks dist.
Marked T38. S. R10 W. S. 8 B.T.
A quaking asp 5 ins diam brs S. 21° E. 1.04 Chs dist
Marked T. 38. S. R. 10. W. S. 17. B.T.
A quaking asp 7 ins diam brs S. 54 3/4° W. 2.83 chs dist.
marked T38 S. R 10 W S. 18 B.T.
This sec cor is about 275 ft. above bottom of Gulch
Land Mountainous
Soil Clay loam sand and stone 1st and 4th rates
Timber Pine and quaking asp.
Mountainous Land. 80.00 Chains.

N 89° 59 E on a random line bet. secs. 8 and 17.
40.00 Set temp 1/4 sec cor.
80.04 Intersect N. and S. line 5 lks. N of cor of secs. 8. 9. 16 and 17.
Thence from
N 89° 59 W on a true line bet. secs. 8 and 17
Over ascending land through heavy quaking asp timber
0.63 A quaking asp 9 ins. diam on line S mark with 2 notches on E and W sides.
1.57 Road from David Thorleys ranch to Cedar City bears W. W and S 68 E.
6.00. Top of ridge about 25 ft above sec cor. brs. N. and S descend
13.40 Bottom of hollow about 45 ft below top of ridge drains S. ascend.
26.00 Leave quaking asp enter oak brs. N and S.
32.25 Top of ridge about 125 ft above hollow bears N 30° E and S. 30° W. Descend.
40.02 Set a sand stone 12 x 8 x 8 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on N face dig Pits 18 x 18 x 12 ins E and W. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N of cor from which
A quaking asp 10 ins diam bears S. 9° W. 2.01 chs dist
Marked 1/4 S.B.T.
A quaking asp 6 ins diam bears N 61° W. 1.67 chs dist
Marked 1/4 S. B. T. No other trees within Limit

Subdivision of T38. S. R. 10 W. Continued

Chains	
	This 1/4 sec cor is about 30 ft. below Top of ridge
41.00	Leave oak enter quaking asp timber brs N and S.
45.00	Head of hollow about 20 ft. below 1/4 sec. cor. drains N; ascend
48.00	Top of ascent about 10 ft above head of hollow brs. N and S. Descend.
53.00	Leave timber begin steep descent brs N.E. and S.W.
59.00	Enter quaking asp bears N and S.
68.75	Bottom of Gulch about 250 ft. below 1/4 sec. cor.
	A stream of clear cold water 3 ins deep 2 lks wide in bottom course S. 10° W.; Begin steep ascend
74.60	Foot of sand stone Cliff
74.95	Top of same 40 ft. above foot bears N and S. 15° E thence gradual descent
80.04	The cor of secs. 7. 8. 17 and 18.
	This sec cor is about 125 ft. above bottom of Gulch
	Land Mountainous.
	Soil: loam Clay and sand; 1st rate.
	Timber Quaking asp.
	Undergrowth oak.
	Mountainous or heavely timbered Land 80.04 Chains
	September 19. 1895. At this cor at 11h 54' m
	A. M. L. M. t. I set off 1° 22' N. on the ded arc and observe the sun on the Meridian resulting lat 37° 31' N.
	N 0° 03' W. bet. secs. 7 and 8.
	over ascending Land through quaking asp timber.
17.00	Wash 5 ft deep 25 lks. wide drains S.E. begin more abrupt ascent.
39.00	Top of ridge about 120 ft. above cor of secs. 7. 8. 17 and 18 descend
40.00	Set a sand stone 24 X 16 X 5 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face dig Pits 18 X 18 X 12 ins. N and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high W of cor from which,
	A quaking asp 9 ins diam bears N 17° E. 59 lks. dist. marked 1/4 S. B. T.
	A quaking asp 10 ins. diam brs. S. 23° W. 1.48 chs. dist marked 1/4 S. B. T.

Subdivision of T. 38. S. R. 10 W. Continued

Chains	
46.60	Bottom of hollow about 35 ft below 1/4 Sec cor drains E. ascend
49.00	Leave quaking asp timber enter Chockcherry under growth leaves E. and W.
50.00	Log Cabin 35.00 chains W.
55.00	Leave Chockcherry undergrowth leaves E and W.
62.50	Top of E slope of Spur about 60 ft above hollow; Descend
74.00	Enter quaking asp leaves E. and W.
80.00	Set a sand stone 24 x 10 x 6 ins 18 ins in the ground for cor of secs. 5. 6. 7 and 8. marked with 5 notches on ~~both~~ S. and E. edges and raise a mound of Stone 2 ft base 1½ ft high W. of cor. Lite impracticable from which
	A quaking asp 6 ins diam bears N 67¾° E. 20 lks. dist Marked T. 38. S. R. 10 W. S. 5 B.T.
	A quaking asp 9 ins diam bears N 77¾° W 29 lks. dist. marked T. 38. S. R. 10 W. S. 6 B.T.
	A quaking asp 7 ins. diam bears S. 54¼° W. 12 lks dist marked T. 38. S. R. 10. W. S. 7 B.T.
	A quaking asp 6 ins. diam bears S. 68° E. 41 lks dist Marked T. 38. S. R. 10 W. S. 8 B.T.
	Land Mountainous.
	Soil, Clay loam and Sand; 1st rate
	Timber. quaking asp.
	Under-growth Chockcherry.
	Mountainous are heavily timbered Land 80.00 chs
	S. 89° 59' E. on a random line bet. secs. 5 and 8.
40.00	Set temp 1/4 sec cor.
80.18	Intersect N. and S. line 7 lks. S. of cor. of secs. 4. 5. 8 and 9
	Thence Run
	S. 89° 58' W. on a true line bet. secs 5 and 8.
	Pass descending Land through Scattering quaking under growth
5.00	Leave oak under growth enter quaking asp timber bears N and S
11.20	Bottom of hollow about 60 ft. below sec. cor drains N. E. ascend.
26.00	Leave quaking asp timber bears N. W. and S. E.
26.68	Road from David Thorley's ranch to Cedar City bears N. W. and S. E.
30.50	Top of ridge about 90 ft. above hollow bears N. and S. ascend

Subdivision of T38. S. R10 W continued

Chains -

40.05 Set a sandstone 24 X 8 X 5 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raise a mound of stone 2 ft. base 1½ ft high N of cor pits impracticable This 1/4 sec cor. is about 60 ft. below top of ridge.

43.00 Bottom of Gulch about 20 ft below 1/4 sec cor drains S. 65° W. Ascend.

47.00. Top of S. Slope of spur about 20 ft. above bottom of Gulch descend

50.90. Bottom of Gulch about 15 ft. below top of S. slope of spur. A small stream of clear cold water 1 in deep 1 lk wide in bottom course S. 30° E Ascend.

64.00 Top of ridge about 70 ft. above gulch brs N and S. descend

72.60. Bottom of hollow about 60 ft. below top of ridge drains S. 30° E ascend.

74.50 Enter quaking asp timber brs N and S.

80.10. The cor of secs. 5. 6. 7. and 8.

Land Mountainous.

Soil, Clay sand and Loam; 1st rate

Timber quaking asp.

Mountainous or heavily timbered Land 80.10 Chs.

No° 03 W. on a true line bet. secs. 5 and 6.

over slight descending Land through quaking asp timber

1.90 wash 3 ft. deep 25 lks wide drains S. 60° E. ascend

11.94. Intersect. N bdy. of Top 18.37 Chs S. 89° 47' E. of cor. of secs. 4. 5. 32 and 33 which is a sand stone 6 X 12 X 4 ins. above ground. marked and witnessed as described by the Surveyor General.

A quaking asp 6 ins diam. brs S. 59° E. 75 lks. dist. marked T 38. S. R. 10 W. S. 4. B. T.

A quaking asp 8 ins diam brs S. 26° W. 1.08 Chs dist. Marked T 38. S. R 10 W. S. 5 B. T.

I obliterate the marks on these trees.

The other bearing trees remain as organally marked

Set a sand stone 24 X 8 X 6 ins 18 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 face and raise a Mound of stone 2 ft. base 1½ ft. high S. of cor pits impracticable. from which a quaking asp 5 ins diam brs S. 47° E 21 lks. dist Marked T 38. S. R 10 W. S. 5 B. T

A quaking asp 11 ins diam brs S. 32° W. 11 lks dist Marked

Subdivision of T 38. S. R. 10 W Continued

Chains

T 38 S. R. 10 W. S. E. B. T.
This closing of Cor is about 30 ft. above the cor of secs 5 6 7 & 8
Land Mountainous
Soil. Clay Loam and sand; 1st rate
Timber, quaking asp.
Mountainous [illegible] Heavily timbered land 11.94. Chains
September 19. 1895.

September 20. 1895 at the cor. of secs. 29. 30. 31 and 32 which I established September 18. at 7h 36m A.M. b.m.t. I set off 37° 29' N on the bat. are: 1° 03' N on the ded. are and determine a true meridian with the solar. Thence I run W on a true line bet. secs 30 and 31. over gradual ascending land

0.50. Enter quaking asp timber bs. N. W. and S. E.
4.50 Leave quaking asp timber bs. N and S.
13.00. Top of ascent about 50 ft. above sec. cor. bs N. 30° W. and S. 30° E. Descend.
21.70 Head of hollow about 35 ft. below top of ridge drains W. ascend
33.20 Top of ridge about 30 ft. above head of hollow bs N. W. Descend.
40.00 Set a sand Stone 24 x 8 x 5 ins. 18 ins. in the ground for 1/4 sec. cor. Marked 1/4 on N. face dig. pits 18 x 18 x 12 ins. E and W. of stone 3 ft dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high. N of cor.
This 1/4 sec. cor is about 25 ft. below top of ridge.
45.00 Bottom of hollow about 20 ft. below 1/4 sec. cor. drains S. E. Ascend
72.50. Enter quaking asp timber bs. N 2.00 Chs. and S. E.
75.00 Top of ridge about 120 ft. above bottom of hollow, bears N 15° W. and S. 15° E. Descend
76.75 Leave timber bs. N and S. 30° W.
77.29. Road from Kolob creek to Kanarraville bs. N and S.
96.00 Enter quaking asp timber bs. N and S.
113.00 Bottom of hollow about 300 ft. below top of ridge drains S. W. ascend.
114.00 Top of S. Slope of spur 20 ft above hollow. Descend.
116.80 2nd crossing of same hollow about 10 ft. below top of S. slope of spur drains N. W. 50 lks thence N 75° W. Slight ascent along N slope of Mountain
117.00 Enter Pine timber bears N and S.

Subdivision of T 38 S. R. 10 W. Continued

Chains	
118.60	S.E. cor of Albert B. Griffin Jr's Desert land claim N 30.10 Chains dist. which is a sand stone 8×12×6 ins above ground marked X on W face [illegible]
124.00	Highest point of N slope of Mountian crossed by line about 30 ft above bottom of hollow. descend
132.00	Leave pine timber brs N and S.
135.00	Enter dense willow brs N and S.W.
138.40	Rest bank of Kolob creek stream 3 ins deep 6 lks wide water clear cold. course S.W. ascend.
138.80	S.W. cor of Albert B. Griffin Jr's desert Land Claim N 30.16 Chs dist. which is a quaking asp post 3 ins diam 2 ft above ground marked X on N side
140.00	Leave willow brs N and S
144.50	Leave timber enter oak brush brs N and S.
167.00	Top of S.E. slope of Mountian about 450 ft above Kolob creek thence along S. slope of Mountian.
192.50	Begin steep descending S.W. slope of Mountian
199.77	Intersect Kolob Guide Meridian and W. bdy. of top.
[illegible]	20.23 Chains S of cor. of secs 13 & 24 T 38 S R 11 W. which I established September 4. 1895. where I set a sandstone 14×10×6 ins 9 ins in the ground for closing cor of secs 30 and 31 marked C.C. on E with 5 groves on N and 1 groove S faces and raise a mound of stone 2 ft base 1½ ft high E of cor pits impracticable
	Land Mountianous
	Soil Clay loam Sand and sone stone 2nd rate
	Timber pine and quaking asp
	Under-growth Scrub oak
	Mountianous or heavily timbered Land 199.37 Chs

See note No 1 Page 1 - Cor. notes

September 20. 1895. at the cor of secs. 19. 20. 29. and 30 which I established September. 18. 1895.

Thence I run

west on a true line bet secs. 19 and 30 Over steep ascending Mountian through pine and quaking asp timber.

24.00	Leave timber brs N 30° W. and S. 30° E.
29.00	Top of mountian about 500 ft above sec cor brs. N.W. and S.E. Descend
36.50	Head of hollow about 40 ft below top of mountian

Subdivision of T 38. S. R 10 W. Continued

Chains	
	drains S. also. Enter quaking asp. br N. 50 lks. and S. 50° E. ascend
39.75	Leave quaking asp. br N. E. 50 lks. and S. W.
40.00.	Set a sand stone 24 X 12 X 10 ins. 18 ins in the ground for 1/4 sec cor. marked 1/4 on N. face dig pits 18 X 18 X 12 ins E and W of stone 3 ft dist. and raise a mound of earth. 3½ ft base 1½ ft high N of Cor from which a quaking asp. 5 ins diam br S. 44° W. 61 lks dist. marked 1/4 S. B. T.
	a quaking asp 7 ins diam br S 80° E. 28 lks dist marked 1/4 S B T.
	This 1/4 sec cor is about 10 ft. above head of hollow
57.50	Enter Chokecherry under growth br N and S.
58.00.	John Berryes Log Cabin 12 Chs S.
59.00	Top of ridge. about 80. ft above 1/4 sec cor. br. N. W and S. E Descend
70.90	Head of hollow about 35 ft. below top of ridge drains S. E. ascend
84.00.	Top of ridge. about 50. ft above head of hollow bears N and S. Descend
86.24.	Road from Kolb Creek to Kanarraville br N 30° W. and S. 30° E
93.50.	Bottom of hollow about 50 ft. below top of ridge drains S. 30° W ascend
111.50	Top of S. Slope of spur. about 70. ft. above hollow descend
118.50	N. E. cor of Albert B. Griffin Jr desert Land Claim S 27.95 chs dist. which is a Volcanic stone 8 X 10 X 7 ins. above ground marked X on W face
122.50	Bottom of hollow about 50 ft below top of S. Slope of spur drains S. E. ascend
131.00	Enter scattering quaking asp thicket br N and S
132.50	Top of ridge about 60 ft above hollow br N 15° W. and S 15° E. Descend
134.00	Leave quaking asp br N and S. 30° W.
138.70	N. W. Corner of Albert B Griffin Jr Desert Land Claim S 29.90 chs which is a sand stone 10 X 12 X 4 ins. marked A. B. G. 40. a N. W. Cor on E face
139.35	Head of hollow. about 40 ft below top of ridge drains S 10.00 chs. thence S. Ascend.

Subdivision of T. 38 S. R. 10 W. Continued.

Chains		
142.00	Top of ridge about 10 ft. above hollow brs. N and S. Descend	
152.00	Enter Scattering Quaking asp timber bears N. and S.	
164.72	Old road from Kanarraville to Kolob Creek brs. N 15° E and S. 15° W.	
165.05	Branch of Kolob Creek about 160 ft. below top of ridge, Stream 3 lks. wide water clear and cold Course S 15 W. ascend	
170.00	Silas W. wests log cabin 25 chs. N.	
175.50	Leave quaking asp timber. bears N and S.E.	
181.00	Leave chokecherry undergrowth bears N. and S.	
199.60	Intersect Kolob guide meridian and W. bdy of Tp. 20.35 chs. S. of Cor of Secs. 12 & 13. T. 38 S. R. 11 W. which I established September 4. 1895. where I	See Note No 2 Page 1 Cor. Notes
	Set a Sandstone 20 x 16 x 8 ins. 15 ins. in the ground for closing Cor. of Secs. 19 and 30. marked C.C. on E. with 4 grooves on N. and 2 grooves on S. faces dig pits 24 x 18 x 12 ins. crosswish on each line N. and S. 3 ft. and E. of Stone 7 ft. dist. and raise a mound of Earth 4 ft. base 2 ft. high E. of Cor.	
	Land Mountainous.	
	Soil. Clay loam and Sand; 1st rate.	
	Timber, pine and Quaking asp.	
	Undergrowth; chokecherry.	
	Mountainous or heavily timbered land 199.60 chs.	
	September 20, 1895	
	September 21, 1895: At the Cor. of Secs 17. 18. 19 & 20 which I established September 18, 1895; at 8h 00m a.m. l.m.t. I set off 37° 30' N. on the lat. arc 0° 39' N on the decl. arc, and determine a true meridian with the Solar,	
	Thence I run,	
	West on a true line bet. Secs. 18, and 19.	
	Over steep ascending land through oak undergrowth.	
7.00	Top of S. Slope of Mountain about 100 ft. above Sec. Cor. begin Steep descent.	
27.00	Enter Scattering pine and quaking asp timber, bears N. and S.	
30.50	A branch of the Virgin river about 275 ft, below top of S. Slope of mountain.	

Subdivision of T. 38 S. R 10 W - Continued

Chains	
	Stream 8 ins. deep 15 lks. wide water clear and Cold, Course S.E. thence steep ascent.
40.00	Set a Sandstone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on N. face and raise a mound of Stone 2 ft. base 1 1/2 ft. high N of Cor, pits impracticable; from which;
	A pine 6 ins. diam. bears N 84° E. 9 lks. dist. marked 1/4 S. B.T.
	A pine 17 ins. diam. bears N. 15° W. 56 lks. dist marked 1/4 S. B.T.
	This 1/4 Sec. Cor. is about 175 ft. above branch of Virgin River.
47.00	Leave timber. bears N and S.
53.00	Top of steep ascent about 150 ft above 1/4 Sec. Cor. brs. N and S.; thence gradual ascent.
69.50	Foot of ridge, bears N. and S. begin more abrupt ascent.
72.00	Top of same about 40 ft. above foot bears S. 1.00 ch. and N. 5.50 chs.; descend.
73.30	West foot of ridge, bears N. and S. thence nearly level.
75.00	Begin more gradual ascent bears N. and S
81.50	Leave oak undergrowth. enter quaking asp timber brs. N. and S.
98.50	Top of ridge. about 750 ft. above branch of Virgin River. bears N. and S. also leave quaking asp timber bears N. and S.; descend.
109.95	Bottom of Gulch about 100 ft. below top of ridge A Spring branch 1 in. deep 2 lks wide in bottom water clear and Cold. Course S.E. ascend.
118.25	The N.E. Cor. of David Browns desert land claim 7.46 chs. N. which is a Sandstone 12 x 8 x 6 ins. above ground marked x on N. face
	The S.E. Cor. of David Browns desert land Claim 12.60 chs South. which is a Sandstone 12 x 8 x 8 ins. above ground marked D.B. S.E.C on W face.
128.00	Top of N. Slope of ridge about 75 ft. above gulch descend
138.30	Bottom of hollow about 40 ft. below top of N. Slope of ridge. a Spring branch 1 in deep 2 lks wide in bottom, water clear and cold. Course N 75° E. ascend

Subdivision of T. 38 S. R 10 W. Continued.

Chains	
145.20	A Spring branch 2 ins deep 1 lk. wide course S.E
148.00	A Corral 8.00 chs N.
153.80	Road from Kolob Creek to Kanarraville. bears S. and N. W.
154.50	David Brown's log Cabin 75 lks. S.
158.37	The N. W. Cor. of David Brown's desert land claim 7.52 chs. N. which is a Sandstone 12×10×6 ins. above ground, marked D.B. NWC. on W. face—
	The S. W. Cor. of David Brown's desert land claim 12.48 chs S. which is a Sandstone 12×8×6 ins. above ground, marked X on W. face.
169.95	Road from Kanarraville to head of Kolob Creek bears S.E and N.W
192.50	Top of ridge about 150 ft. above hollow brs. N. and S. descend.
199.40	Intersect Kolob Guide meridian and W. bdy of Tp. 20.47 chs. S. of Cor. of Secs. 1 & 12. T38S.R11W. which I established September 4, 1895, where I — See note No 3 Page 1 Cor. Notes
	Set a Sandstone 18×10×4 ins. 12 ins. in the ground for Closing Cor. of Secs. 18 and 19. marked C.C. on E. with 3 grooves on ~~[illegible]~~ N and S. faces; dig pits 24×18 12 ins. Crossover on each line, N and S. 3 ft. and E 7 ft dist. and raise a mound of earth 4 ft. base 2 ft high E. of Cor—
	Land. Mountainous.
	Soil. Clay. loam Sand and Some Stone; 2nd rate.
	Timber, pine and quaking asp. undergrowth oak.
	Mountainous or heavily timbered land 199.40 chs.

	September 21, 1895; at the Cor of Secs. 7. 8. 17 and 18 which I established September 19. 1895. at 11h 53m a.m. l.m.t I set off 0°36' N on the decl. arc. and observe the Sun on the meridian, resulting lat. 37°31' N
	Thence I run—
	West on a true line bet. Secs. 7 and 18.
	over ascending land, through scattering quaking asp timber—
18.50	Top of ridge about 100 ft. above Sec. Cor. bears N 15° W. and S. 15° E: descend—
21.00	Begin steep descent to gulch. bears N W and S.E.
39.05	Top of Sandstone cliff. bears N and S. also

Subdivision of T. 38 S. R 10 W – Continued.

Chains.	
	Enter pine timber bears N and S.
40.00	Set a sand stone 15 x 10 x 6 ins. 10 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on N. face. and raise a mound of stone 2 ft base 1 1/2 ft. high N. of Cor. pits in mound from which:–
	A quaking asp 11 ins. diam bears N 70° W. 21 lks. dist. marked 1/4 S. B.T.
	A pine 22 ins. diam. bears S. 64° W 62 lks. dist. marked 1/4 S. B.T.
	This 1/4 Sec. Cor. is about 350 ft. below top of ridge.
44.30	Bottom of gulch about 125 ft. below 1/4 Sec. Cor a stream of clear cold water in bottom (Branch of Virgin river) 6 ins. deep 12 lks. wide course S. 30° E – ascend.
46.50	Top of S. Slope of Spur about 50 ft above branch of Virgin river; descend.
56.80	Bottom of main gulch about 125 ft. below top of S. slope of Spur. a branch of Virgin river 8 ins. deep 12 lks. wide in bottom, water clear and cold, current swift. course S. E. ascend –
63.00	Begin steep ascent bears S. E and N. W.
80.50	Top of steep ascent about 50 ft. above branch of Virgin river. bears N. W. and S. E. leave pine timber. enter scattering quaking asp timber bears N. W. and S. E. thence gradual ascent.
114.90	Wm Fords pasture fence brs. N and S.
139.50	~~Leave timber bears N. and S.~~
150.00	Enter quaking asp timber bears N and S.
158.80	N. E. Cor. of William Fords desert land claim S. 2 7.35 chs – which is a sand stone 10 x 8 x 6 ins. above ground marked X on N. W. face.
162.00	leave quaking asp timber bears N and S. 30° E.
179.00	Top of ridge. about 150 ft. above top of steep ascent. bears S. E. and N. W. descend –
194.50	Bottom of hollow. about 60 ft. below ~~top of~~ ridge. drains N. W. ascend.
199.40	Intersect Kolob guide meridian and W. bdy of Tp 59.50 chs N. of Cor. of Secs. 1 and 12 of T 38 S – R 11 W. which I established September 4th 1895, where I,

Subdivisions of T. 38 S., R 10 W - Continued.

Chains	
	Set a Sandstone 18 x 6 x 6 ins. 12 ins. in the ground for closing Cor. of Secs. 7 and 18 marked C.C on E with 2 grooves on N and 4 grooves on S. faces; dig pits 24 x 18 x 12 ins. crossways on each line N and S. 3 ft. and E of Stone 7 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high E. of Cor.
	This closing Sec. Cor. is about 15 ft. above bottom of hollow.
	Land Mountainous.
	Soil. Clay, Loam and Sand 1st rate.
	Timber. Pine and quaking asp.
	Mountainous or heavily timbered land - 199.40 chs.
	September 21, 1895.
	September 23, 1895. at the Cor of Secs. 5.6.7 and 8 which I established September 19th 1895 at 8h 00m a.m. l.m.t. I set off 37°32' N on the lat. arc 0°08' S. on the decl. arc and determine a true meridian with the Solar
	Thence I run
	West on a true line bet Secs. 6 and 7
	over ascending land through quaking asp timber
1.00	Leave timber bears N and S
15.00	Enter quaking asp timber bears N 15° E and S 15° W
18.25	Top of ridge about 120 ft above Sec. Cor. bears N and S. Thence nearly level
20.50	Leave quaking asp timber bears N and S. descend
33.50	Enter quaking asp timber bears N 30° E and S.E.
40.00	Set Sandstone 24 x 10 x 6 ins. 15 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on N. face and raise a mound of Stone 2 ft. base 1½ ft. high N. of Cor. pits impracticable from which;
	a quaking asp 11 ins. diam. bears N 40° E 1.16 chs. dist. marked 1/4 S. B.T.
	a quaking asp 15 ins. diam bears S 73° E 1.76 chs. dist. marked 1/4 S. B.T.
	This 1/4 Sec. Cor. is about 150 ft. below top of ridge.
46.35	Bottom of hollow about 35 ft. below 1/4 Sec Cor. drains S. 15° E. ascend.
85.00	Top of N. Slope of Spur, about 250 ft above bottom of hollow, descend.

Subdivision of T. 38 S. R 10 W. Continued.

90.60	Bottom of hollow about 20 ft. below top of N slope of spur, drains N.E. ascend.
97.00	Leave timber bears N and S.
101.00	Top of ridge, about 75 ft. above hollow bears N & S descend.
137.25	Enter quaking asp timber bears N and S.
144.75	Leave quaking asp timber bears S and N. 10° E
147.40	Begin steep descent to gulch, bears N and S.
153.50	Enter pine timber, bears N and S.
154.20	Bottom of gulch about 500 ft. below top of ridge a branch of Virgin river water 6 ins. deep 10 lks wide in bottom, water clear and cold, current swift. Course S. ascend.
155.25	Enter quaking asp timber bears N and S
158.00	Leave pine timber bears N and S.
166.30	Top of ascent about 200 ft. above bottom of gulch bears N and S. thence an nearly level line, land slopes gradually N.
168.00	Enter scattering pine timber bears N and S.
186.00	Leave pine timber, bears N and S
192.00	Begin gradual ascent bears N and S.
— 199.13	Intersect Kolob gulch meridian and W. bdy of Tp. 12.74 chs. S. of closing cor of Tps. 38 S. R 10 and 11 W. which I established Sept. 3, 1895

Where I

Set a large stone 16 x 8 x 6 ins. 11 ins. in ground for closing cor. of Secs 6 and 7, marked C.C on E with 1 groove on N and 5 grooves on S faces and raise a mound of stone 2 ft. base 1½ ft. high E of cor. pits impracticable from which;

A quaking asp 7 ins. diam bears N. 48½° E 17 lks dist. marked T 38 S. R. 10 W S. 6 B.T.;

A quaking asp 5 ins. diam bears S 41° E 46 lks dist. marked T 38 S. R 10 W S. 7 B.T.

This closing Sec cor. is about 270 ft. above bottom of gulch

Land, mountainous.

Soil, Clay, Loam, Sand and Stony, 2nd rate

Timber, quaking asp and pine.

Mountainous or heavily timbered land 199.13 chs.

Note: At the cor of Secs. 5. 6. 31 and 32 on the Tp line bet. Tps. 37 and 38 S. R 10 W. which is a sand

Subdivision of T. 38 S. R 10 W. - Continued

Stone 8 x 8 x 6 ins above ground marked and witnessed as described by Surveyor general
a quaking asp 12 ins diam bears S. 31° W marked T. 38 S. R 10 W. S 6 B.T.
a quaking asp 9 ins. diam. bears S. 82° E 6.2 lks dist. marked T. 38 S. R 10 W. S 5 B.T.
I obliterate the marks on these trees
The other bearing trees are as originally marked
Sept. 23, 1895.

Note: I retrace the S. boundary of T 37 S. R 10 W and find its bearing to be. N 89° 47' W and 481.77 chs. in length, instead of bearing west and being 480 chs in length as is given in the official Notes of this line.

General Description.

This township contains nearly every variety of land from comparatively smooth plateau to rough mountains, and the soil ranges from clay to rich loam, the soil of the high plateaus in the Northern, central and western portions of this township is generally rich black loam, capable of producing fair crops of grass without irrigation. The soil of the South-eastern portion is very rough and stony and may be classed as third rate.
This township is divided into three distinct parts by two deep and rough canions, these parts can only be reached by long and circuitous routes
Irrigation is necessary to the production of crops in any portion of this township
Heavy pine timber is found along the streams and many of the pine trees are very large and in other portions of the township is heavy quaking asp, scrub oak and scattering cedar timber
Balsam timber is found in the Northern tier of sections.
This township is fairly well watered but in most parts so situated that it is impossible to utilize it for irrigation

928

Subdivision of T. 38 S. R. 10 W. Continued.

There are three settlers in Sec. 15

Wm S. Jones in the N.E. 1/4. his improvements consist of log Cabin. Values about $50.

Annie Rowentree in the S.E. 1/4 her improvements consist of log Cabin value about $50.

Richard A. Thorley near the 1/4 Sec. line bet. the N.W. 1/4 & the S.W. 1/4 his improvements consist of Cabin value about $40.

Anna Thorley & Lehi W. Jones both in the S.E. 1/4 of Sec 16. Each have log house & Corrals Value of each about $150.

Wm Ford & David Brown in Sec. 18. Wm Ford in the W 1/2 of the Sec. His improvements consist of house. Corral & fences. Value about $1000.00. David Brown is partly in Sec 18 & 19. His improvements consist of house which is badly decayed. No roof - Value about $10.

Silas W. West in the S.W. 1/4 of Sec. 19. His improvements consist of Cabin & badly delapidated Corral. Values about $50.

Thomas J. Jones in the the N.W. 1/4 of Sec. 21 his improvements consist of a neat frame Cabin & Corral - Values about $150.00

John G. Webster is in the N.E. 1/4 of Sec. 21. his improvements consist of Cabin. Values about $40.00

David Thorley in S.W. 1/4 of Sec 22. his improvements consist of three Cabins & Corral. Value about $200.

Lehi Thorley in the N.W. 1/4 of Sec 26. his improvements consist of Cabin Values about $50

Lattie Rowentree in the S.E. 1/4 of Sec. 26 - her improvements consist of log Cabin Values about $40.00

Richard Aldridge in the N.E. 1/4 of 27. his improvements consist of log Cabin. Values about $40.00

Albert Griffin Jr. in W 1/2 Sec. 30 his improvements consist of Cabin Values about $50.

John Berry in N.W. 1/4 Sec. 30 (Lot 1) his improvements consist of Cabin & Corral - Values about $50

John A. Berry in the N.E. 1/4 Sec. 31. His improvements consist of Cabin. Values about $50

Frank Jackson in N.E. 1/4 of Sec 9. his improvements consist of Cabin and fences, Values about $100

Thomas Thorley in S.E. Cor. Sec. 10. his improvements consist of Cabin. Values about $40.00

John S. Fife in N.E. 1/4 Sec. 12. his improvements consist of fences Values about $200.

Albert B. Griffin Jr's desert land claim in Sec 30 may be irrigated by the east fork of Kalab Creek

Subdivision of T. 38 S. R 10 W - Continued -

There is no possible source of water supply sufficient to irrigate Wm Ford's desert land claim in Sec. 18 or David Brown's desert land claim, which lies partly in Sec 18 and 19 Wm A Reed has made no improvements in this Tp. and his whereabouts is unknown. -

Boundaries of T. 38 S. R 10 W
Latitudes, Departures and Closing Errors -

Line Designated	True Bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs	chs	chs	chs	chs.
East Boundary	North	480.00	480.00			
N. bdy. of Sec 1	West	97.32				97.32
W. " " " "	S.	69.45		69.45		
South bdy T. 37 S. R 10 W	N 89° 47' W	481.77	1.82			481.77
Prolongation W. of S. bdy T. 37 S.	W	19.80				19.80
Kolob Guide Meridian	S.	412.13		412.13		
South bdy T. 38 S. R 10 W	E	599.85			599.85	
Convergency						.70
			481.82	481.58	599.85	599.[illegible]9
			481.58		599.[illegible]	
			24	Error in Dep.	[illegible]6	
Error in Latitude						

Robert E. Lee Collier
U.S. Deputy Surveyor

BLANK

PAGE

BLANK

PAGE

~~374~~
830-831
BLANK

BLANK

PAGE

Corrected Notes, Subdivision Lines T38S. R10W.

Note No 1. The marks on the old Cor. to Secs. 13.18.19 and 24 that pertained to Secs 18 and 19 T38S. R10W. were obliterated.

Note No 2 The marks on the old Cor. to Secs. 7.12.13 and 18 that pertained to Secs. 7 and 18 T38S R10W were obliterated.

Note No 3 The marks on the old Cor. to Secs. 1.6.7 and 12 that pertained to Secs. 6 and 7 T38S. R10W were obliterated.

The failure to make these statements in the original Notes was a Clerical Error.

Robert E. Lee Collier
U.S. Deputy Surveyor.

Subscribed & sworn to before me
this 2d day of March. 1897
Henry M. Atkinson
Notary Public

BLANK

PAGE

BLANK

PAGE

BLANK

PAGE

List of Names.

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

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

.....Meridian, in ...., showing the respective capacities in which they acted:

Final Oath of Assistants:

We hereby certify that we assisted .....

....., U. S. Deputy Surveyor, in surveying all those parts or portions of the .....

.....Meridian, ..., as 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 U. S. Surveyor General for .....

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

SEAL

.....

.....

6—151

lay off the azimuth of Polaris, 1°.34. to

~~330~~ 831
831 BLANK

Final Oath of U. S. Deputy Surveyor.

I, ..., U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from ....., U. S. Surveyor General for ....., bearing date of the ..... day of ....., 18 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for ....., the surveying manual, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

.....

..... Meridian, in the ....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the true 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.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

.....

Approval.

Office of the U. S. Surveyor General,
Salt Lake City Utah Sept. 22d, 1896.

The foregoing field notes of the survey of the Subdivisions of T. 38 S. R. 10 W. of the Salt Lake Base and Meridian Utah

.....

.....

.....

.....

.....

..... executed by Robert E. Lee Collier under his Contract No. 201, dated March 12th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Sears
U. S. Surveyor General.

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

.....

U. S. Surveyor General.

6—151

BLANK

PAGE

~~982~~
840

BLANK

PAGE

(4—679.)

841

BOOK A 241-A

FIELD NOTES

OF THE SURVEY OF

West Boundary of Township No. 40
South of Range No. 7 West.

Of the Salt Lake Base & Meridian,

In the Territory of Utah

AS SURVEYED BY

Robert E. Lee Collier, U. S. Deputy Surveyor,

Under his Contract No. 201, dated March 12 1895.

Survey commenced October 2, 1895.

Survey completed October 5, 1895.

(12503—2,000.)

Township-high 6-02-86 ✓

drawing 7-36 ✓

lay off the azimuth of Polaris, 1° 34' to

Names and Duties of Assistants.

Andrew B. Larson	Chainman
Wm H. Rager Jr	Chainman
Wm B. Dougall	Moundman
C. W. Cooper	Moundman
John W. Dallin	Axeman
Arthur E. Larang	Flagman

BOOK A 241-A

INDEX DIAGRAM.

Township 40 South, *Range* 7 West

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

Meanders Page .....

6—161

lay off the azimuth of Polaris, N. 34. to

Preliminary Oaths of Assistants.

WE, _____

_____

_____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; 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 distance 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 _____

_____

_____

_____

_____

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

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

_____

_____

WE, _____

_____

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

_____

_____

_____

_____

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

_____, *Axeman.*

_____, *Axeman.*

_____

_____

West Boundary T. 40. S. R. 7. W.

Chains

Survey commenced October 2. 1895. and executed with a W. and L. E. Gurley, light mountain transit (no number) with solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, May. 14. 1895.

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:

October 2. 1895. At the standard corner of Tps. 40 S. Rgs. 7. and 8. W. latitude 37° 17' 3" N. longitude 112° 39' 7" W., at 3h. 00m. p. m. l. m. t., I set off 37° 17' N. on the lat. arc. 3° 44' S. on the decl. arc. (these settings being the nearest practicable to the true minutes and fractions thereof required); 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.

At. 6h. 09m. p. m. by my watch, which is 30m. 38s. fast of l. m. t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point on the line thus determined on a plug driven in the ground 5.00 chs. N. of my station

October 2. 1895

October 3. 1895. At. 8h. 00m. a. m. l. m. t., I lay off the azimuth of Polaris, 1° 34' to

Chains

the west and mark the true meridian thus determined, by a pencil mark on the plug set, September 26. on which the true meridian falls 0.3 ins west of the mark determined by the solar.

At 8h. 12m. a. m. l. m. t., I set off 37° 17' N. on the latitude arc. 3° 39' S. on the decl. arc. and mark a point in the true meridian determined with the solar, by a pencil mark on the plug already set 500 chs. N of my station: this mark falls 0.4 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 0' 16" east and 0' 21" west of the true meridian established by the Polaris observations: therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 00m. a. m. is N. 15° 21' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 15° 18' E.

I begin at the standard corner of Tps. 40. S. Rgs. 7 and 8 W. which is a sandstone 10 x 15 x 11 ins. above ground marked and witnessed as described by the surveyor general.

Thence I run.

North on a random line on W. Bdy. of Tp 40 S. bet. Rgs. 7 and 8 W. and establish temp. 1/4 sec. and sec. cors. at intervals of 40.00 chs. and 80.00 chs.; and at 6 miles 2.86 chs. intersect the prolongation West of the South Bdy. of Tp. 39. S. R. 7. W. 7.36 chs. west of the cor of Tps. 39. and 40. S. Rgs. 7 and 8 W. which is a sandstone 8 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general.

I obliterate the marks on the South edge of this stone and leave the cor. marked as follows:

West Bdy of T. 40 S. R. 7 W.- Continued.

Chains	
	6 notches on N. E. and W. edges - thence I run, W. over ascending stony land.
7.36	The temp. closing cor. of T. 40 S. Rgs. 7 and 8 W.- where I set a sandstone 18 X 10 X 7 ins. 12 ins. in the ground for closing cor. of T. 40 S. Rgs. 7 and 8 W marked C. C. on S.- with 6 grooves on S. E. and W. faces and raise a mound of stone 2 ft. base 1½ high S. of cor. pits impracticable.
	I therefore establish my random as a true line, set permanent ¼ sec and sec. cors. and note field operations as follows: October 3. 1895.
	October 4. 1895. From the standard cor. of Tps. 40 S. Rgs. 7 and 8 W. already described I run;
	North on a true line bet. secs. 31 and 36 over gradually descending land through heavy cedar and pine timber.
0.70	Head of ravine, drains S. E. ascend.
31.25	Top of ridge about 75 ft. above head of ravine bears E. and W. Descend.
35.50	Bottom of ravine, about 70 ft below top of ridge drains, W. Ascend.
37.50	Top of ridge, about 30 ft. above ravine, bears E. and W. Thence nearly level.
40.00	Set a sandstone 20 X 10 X 3 ins. 15 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable from which: A cedar 12 ins. diam bears N. 51° E. 44 lks. dist: marked ¼ S. B. T. A cedar 8 ins. diam bears N. 5° W.: 93 lks. dist marked ¼ S. B. T.
42.50	Begin gradual ascent bears E. and W.
50.00	Top of spur, about 40 ft. above the ¼ sec. cor. bears N. E. and S. W. Descend.
54.30	Bottom of ravine, about 30 ft. below top of spur,

Chains	
	drains W. ascend.
58.60	Top of spur about 50 ft. above ravine bears E. and W. descend.
68.00	Bottom of hollow about 50 ft. below top of spur drains W. ascend.
72.50	Top of spur, about 40 ft. above hollow, bears E. and W. descend.
75.00	Foot of spur, about 35 ft. below top, bears E. and W. thence slight ascent.
76.10	Wash 6 ft. deep, 10 lks. wide drains S. 60° W.
79.00	Begin steep ascent bears E. and W.
80.00	Set a sandstone 12 X 8 X 6 ins.; 8 ins. in the ground for cor. of secs. 25, 30, 31 and 36. marked with 1 notch on S. and 6 notches on N. edges: dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist; and raise a mound of earth 4 ft. base 2 ft. high W. of cor. from which:
	A cedar 8 ins. diam.; bears N. 65° W. 68 lks. dist; marked T. 40 S. R. 8 W. S. 25 B. T.
	A pine 7 ins. diam. bears N. 7° E. 48 lks. dist; marked T. 40 S. R. 7 W. S. 30 B. T.
	A cedar 24 ins. diam. bears S. 50° E. 54 lk. dist marked T. 40 S. R. 7 W. S. 31 B. T.
	A cedar 6 ins. diam. bears S. 75° W. 36 lks. dist; marked T. 40 S. R. 8 W. S. 36 B. T.
	This sec. cor. is about 10 ft. above point of steep ascent.
	Land mountainous
	Soil, clay and sand; 2nd rate.
	Timber, pine and cedar.
	Mountainous or heavily timbered land 80.00 chs.
	North between secs. 25 and 30
	Over steep ascending land through cedar and pine timber.
0.45	Top of spur, 5 ft. above sec. cor. bears E. & W. descend.
3.00	Bottom of ravine, 40 ft. below spur, drains W. ascend

Chains	
9.30	Top of spur, 60 ft. above ravine, bears E. and W. descend.
11.20	Bottom of ravine, 35 ft. below spur, drains W. Ascend.
14.55	Top of spur, 60 ft. above ravine bears E. and W. descend.
16.35	Bottom of ravine, 40 ft. below spur. drains W. ascend
23.75	Top of spur, 50 ft above ravine, bears E. and W. descend
31.00	Bottom of ravine, 35 ft. below spur drains W. ascend.
36.85	Top of W. slope of spur 60 ft. above ravine descend.
40.00	Set a sandstone 18 X 14 X 10 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable from which: A cedar 9 ins diam. bears S. 20° W. 90 lks. dist. marked 1/4 S. B. T. A cedar 10 ins. diam. bears N. 7 1/2° W. 42 lks. dist: marked 1/4 S. B. T. This 1/4 sec. cor. is about 40 ft. below top of W. slope of spur. October 4. at this 1/4 sec cor. I set off 4° 28' S. on the decl. arc. and at 11h. 49m. a. m. l. m. t. observe the sun on the meridian, the resulting lat is 37°. 19' N.
42.50	Bottom of ravine, 20 ft. below 1/4 sec. cor. drains W. Ascend.
53.70	Top of spur, 80 ft. above ravine, bears E. and W. descend.
64.40	Bottom of ravine, 120 ft. below top of spur, drains W. Ascend.
73.00	Top of W. slope of spur, 70 ft. above ravine, descend
79.70	Bottom of ravine, 60 ft. below top of W. slope of spur drains W. ascend.
80.00	Set a sandstone 24 X 12 X 6 ins. 18 ins. in the ground for cor. of secs. 19. 24. 25. and 30. marked with 2 notches on S. and 4 notches on N. edges: and raise a mound of stone 2 ft. base 1 1/2 ft high W. of cor. pits impracticable, from which A cedar 6 ins. diam: bears N. 40° E. 97 lks. dist: marked T. 40 S. R. 7. W. S. 19. B. T. A cedar 9 ins diam: bears N. 15° W. 1.15 chs. dist. marked T. 40 S. R. 8 W. S. 24 B. T.

West. Bdy. of Tp. 40 S. R. 7 W. - Continued

Chains	
	A pine 5 ins diam; bears S. 30° W. 99 lks. dist; marked T. 40 S. R. 8 W. S. 25 B. T.
	A pine 12 ins. diam; bears S. 80° E. 54 lks dist. marked T. 40 S. R. 7 W. S. 30 B. T.
	This sec. cor. is about 5 ft. above bottom of ravine.
	Land mountainous.
	Soil, clay sand and stone 2nd rate.
	Timber, cedar and pine.
	Mountainous or heavily timbered land 80.00 chs.
	North between secs. 19. and 24.
	Over steep ascending land through heavy cedar and pine timber.
2.00	Top of spur, 40 ft above sec. cor. bears E. & W. descend.
3.50	Bottom of ravine, 35 ft. below spur drains W. Ascend
8.40	Top of W. slope of ridge 40 ft. above ravine descend.
13.00	Bottom of ravine, 30 ft. below W. slope of ridge drains W. Ascend
22.50	Top of spur, 25 ft. above ravine, bears E. and W. descend.
23.25	Bottom of ravine, 20 ft. below spur, drains W. Ascend
27.00	Top of spur, 25 ft. above ravine, bears N. 60° E. and S. 60° W. descend.
29.20	Ravine, 15 ft. deep, 35 lks. wide, a small stream of alkali water 1 in. deep 2 lks wide in bottom course S. 60° W. also leave timber bears N. E. and S. W. thence gradual ascent along bottom of canon.
40.00	Set a sandstone 22 X 14 X 3 ins 17 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 X 18 X 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 high W. of cor.
	Indications of coal near top of ridge about 20.00 chs. E.
47.00	Foot of mountain bears N. W. and S. E. enter cedar and pine timber bears N. W. and S. E. begin very steep ascent.
80.00	Set a sandstone 24 X 12 X 6 ins. 18 ins. in the ground for cor. of secs. 13. 18. 19. and 24. marked with 3 notches on N. and S. edges; and raise

Chains	
	a mound of stone 2 ft. base 1½ ft. high West of cor. pits impracticable from which:
	A cedar 7 ins. diam: bears N. 37¾° W. 87 lks. dist marked T. 40 S. R. 8 W. S. 13 B. T.
	A cedar 11 ins. diam: bears S. 11° E. 37 lks. dist: marked T. 40 S. R. 7 W. S. 19 B. T.
	A pine 13 ins. diam: bears S. 13° W. 9 lks. dist: marked T. 40 S. R. 8 W. S. 24 B. T.
	No tree within limit in sec. 18.
	This sec. cor. is about 500 ft. above the 1/4 sec. cor.
	Land mountainous
	Soil, clay, sand and stone 2nd rate.
	Timber cedar and pine.
	Mountainous or heavily timbered land 80.00 chs.
	October 4. 1895.
	October 5. 1895. At 8h. 06m. a. m. l. m. t. I set off 37°. 20' N. on the lat. arc. 4° 48' S. on the decl. arc: and determine a true meridian with the solar at a point on line 100 lks. N. of the cor. of secs. 13. 18. 19. and 24.
	Thence I run:
	North between secs. 13 and 18.
	Over ascending mountain through cedar and pine timber
0.40	Foot of cliff bears. N. 5° W. and S. 5° E.
0.80	Top of same, 4.5 ft. above foot, thence along West slope of mountain.
14.75	Ravine, drains S. 60° W.; thence very steep ascent.
40.00	Set a sandstone 20 X 18 X 8 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable from which:
	A pine 18 ins diam: bears S. 40° W. 34 lks. dist: marked 1/4 S. B. T.
	A cedar 16 ins. diam: bears S. 36¼° E. 43 lks. dist. marked 1/4 S. B. T.

Chains	
	This 1/4 sec. cor. is about 300 ft. above the sec. cor.
40.50	Top of W. slope, 10 ft. above the 1/4 sec. cor. thence slight descent along W. slope of mountain
80.00	Set a sandstone 36 X 12 X 8 ins. 27 ins. in the ground for cor. of secs. 7. 12. 13 and 18 marked with 2 notches on N. and 4 notches on S. edges: and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable, from which: A pine 12 ins. diam: bears N. 37 1/2° E. 39 lks dist. marked T. 40 S. R. 7 W. S. 7 B. T. A pine 11 ins. diam: bears N. 30 1/4° W. 38 lks. dist marked T. 40. S. R. 8 W. S. 12 B. T. A cedar 9 ins. diam; bears S. 29 1/2° W. 47 lks. dist: marked T. 40 S. R. 8 W. S. 13 B. T. A cedar 7 ins. diam: bears S. 74 1/2° E. 16 lks dist: marked T. 40 S. R. 7 W. S. 18. B. T.
	This sec. cor. is about 100 ft. below the 1/4 sec cor.
	Land mountainous
	Soil, clay and stone 4th rate.
	Timber, cedar and pine.
	Mountainous or heavily timbered land 80.00 chs.

	North between secs. 7 and 12.
	Over descending W. slope of mountain through cedar and pine timber.
40.00	Set a sandstone 36 X 8 X 6 ins. 27 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable from which: A cedar 6 ins. diam. bears S. 71° E. 141 lks dist: marked 1/4 S. B. T. A cedar 7 ins. diam: bears N. 59° W. 43 lks. dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 75 ft. below the sec cor.
	October 5. At this 1/4 sec. cor. I set off 4° 57' S. on the decl. arc. and at 11h. 48m.

Chains	
	a. m. l. m. t. observe the sun on the meridian the resulting lat. is 37° 21' N.
65.00	Bottom of ravine, 150 ft. below the 1/4 sec. cor drains N. W. ascend.
70.40	Top of spur, 75 ft. above ravine, bears N. W. and S. E. leave timber, enter dense oak and vines undergrowth, descend.
77.00	Bottom of ravine, 70 ft. below spur, drains N. 30° W. ascend.
80.00	Set a sandstone 24 x 10 x 8 ins. 18 ins in the ground for cor. of secs. 1. 6. 7. and 12. marked with 1 notch on N. and 3 notches on S. edges; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable.
	This sec. cor. is about 100 ft. below the 1/4 sec. cor.
	Land mountainous
	Soil, clay and stone 4th rates.
	Timber cedar and pine.
	Undergrowth oak and vines.
	Mountainous or heavily timbered land 80.00 chs.

	North between secs. 1 and 6.
	Cour steep ascending mountain, through dense oak and vines undergrowth.
4.50	Top of spur, 140 ft. above the sec. cor. enter scattering cedar and pine timber, bears N. E. and S. W. descend.
13.70	Bottom of ravine, 65 ft. below top of ridge drains S. W. leave undergrowth ascend.
27.27	Top of ridge 500 ft above ravine bears N. 62° E. and S. 53° W. thence steep descend.
34.50	Bottom of ravine, 250 ft. below top of ridge. drains W. ascend.
39.50	Top of W. slope of spur, 50 ft. above ravine, descend.
40.00	Set a sandstone 14 x 8 x 6 ins. 9 ins. in in the ground for 1/4 sec. cor. marked

West. Bdy. of T. 40 S. R 7 W.—Continued

Chains	
	1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable: from which:- A pine 12 ins. diam.; bears S. 64 1/2° E. 30 lks. dist; marked 1/4 S. B. T.
	No other tree within limit.
41.50	Bottom of ravine 35 ft. below spur drains W. ascend
45.40	Top of spur, 70 ft above ravine, bears E and W. descend.
57.50	Bottom of ravine, 80 ft. below spur, drains, S. W. ascend.
75.00	Leave timber bears E and W.
77.00	Top of mountain, about 600 ft. above ravine bears E. and W. descend.
82.86	The closing cor. of Tp. 40 S. Rgs. 7 and 8. W. heretofore described.
	This cor. is about 20 ft. below top of mountain
	Land mountainous
	Soil, stony 4th rate
	Timber, cedar and pine.
	Undergrowth, oak and sarvis.
	Mountainous or heavily timbered land 82.36 chs.
	October 5. 1895.

For General description see Subdivision of this Tp.

Robert E. Lee Callier
U.S. Deputy Surveyor

BLANK

PAGE

BLANK

PAGE

List of Names.

A list of the names of the individuals employed by Robert E. Lee Collier, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the North and East Boundary of Township No. 17 South of Range No. 20 West; E. bdy. Tp. 19 S. R. 20 W.; E. bdy. T. 17 S. R. 19 W. E. & W. bdys. T. 20 S. R. 19 W.; S. bdy. T. 17 S. R. 18 W. S. & E. & W. bdys. T. 18 S. R. 18 W.; N. & E. bdy. T. 35 S. R. 8 W.; E. bdy. T. 37 S. R. 7 W. S. & N. bdy. T. 38 S. R. 10 W.; & the W. bdy. T. 40 S. R. 7 W. of the

Salt Lake Base and Meridian, in The Territory of Utah, showing the respective capacities in which they acted:

Andrew B. Larson	Chainman
Wm H. Rager Jr	Chainman
Wm B. Dougall	Moundman
C. W. Cooper	Moundman
John W. Dallin	Axeman
Arthur E. Laraway	Flagman

Final Oath of Assistants:

We hereby certify that we assisted Robert E. Lee Collier, U. S. Deputy Surveyor, in surveying all those parts or portions of the North & East Boundary of Township No. 17 South of Range No. 20 West, also the E. bdy. T. 19 S. R. 20 W.; E. bdy. T. 17 S. R. 19 W.; E. and W. bdy. T. 20 S. R. 19 W.; S. bdy. T. 17 S. R. 18 W.; S. E. & W. bdy. T. 21 S. R. 18 W.; N. & E. bdy. Tp. 35 S. R. 8 W.; E. bdy. T. 37 S. R. 7 W. S. & N. bdy. T. 38 S. R. 10 W. and the West Boundary of T. 40 S. R. 7 W. of the

Salt Lake Base & Meridian, as 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 U. S. Surveyor General for the Territory of Utah.

Andrew B. Larson Chainman
Wm H. Rager Jr Chainman
Wm B. Dougall Moundman
C. W. Cooper Moundman
John W. Dallin Axeman
Arthur E. Laraway Flagman

Subscribed and sworn to before me this 17th day of October, 1895.

SEAL

Thomas C. Callister
County Clerk Millard Co.
By John Cooper deputy

6—151

intersect the witness corner to the 1/4 sec. cor.

~~409~~

Final Oath of U. S. Deputy Surveyor.

I, Robert E. Lee Collier, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from George W. Snow, U. S. Surveyor General for the District of Utah, bearing date of the 12th day of March, 1895, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for Utah, the surveying manual, and the laws of the United States, surveyed all those parts or portions of N. ½ of E. bdy. T. 17 S. R. 20 W.; E. bdy. T. 17 S. R. 20 W.; E. bdy. T. 17 S. R. 19 W. E. ½ W. bdy. T. 20 S. R. 19 W.; S. bdy. T. 17 S. R. 18 W.; S. E. ¼ of W. bdys. T. 21 S. R. 19 N. ½ of E. bdy. T. 35 S. R. 8 W.; E. bdy. T. 37 S. R. 7 W.; S. ½ of N. bdy. T. 39 S. R. 10 and the W. bdy. T. 40 S. R. 7 W. of the Salt Lake ½ Meridian, in the Territory of Utah, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the true 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.

Robert E. Lee Collier
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 22d day of September, 1896.

SEAL

George W. Snow
U. S. Surveyor General

Approval.

Office of the U. S. Surveyor General,
Salt Lake City, Utah, Sept. 22d, 1896.

The foregoing field notes of the survey of the West Boundary of T. 40 S. R. 7 W. of the Salt Lake Base and Meridian

executed by Robert E. Lee Collier under his Contract No. 201, dated March 12th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
U. S. Surveyor General.

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

_____
U. S. Surveyor General.

6—151

BLANK

PAGE

BLANK

PAGE

(4—679.)

BOOK A 241-A

FIELD NOTES

K.T.B.

OF THE SURVEY OF

SUBDIVISION

Township No 40 South, Range No 7 West

Of the Salt Lake Base and Meridian,

In the Territory of Utah

AS SURVEYED BY

Robert E. Lee Collier, U. S. Deputy Surveyor,

Under his Contract No. 201, dated March 12. 1895.

Survey commenced October 7, 1895.

Survey completed October 12, 1895.

(12503—2,000.)

	M.	Ch.	Lk.
Sect. high	14	18	55 ✓
" low		23	50 ✓
" closing		10	88 ✓

Contingent 8-18-04 ✓

intersect the witness corner to the 4 sec. cor.

Names and Duties of Assistants.

Andrew B. Larson	Chainman
Wm H. Rager Jr	Chainman
Wm B. Dougall	Maundsman
C W. Cooper	Maundsman
John W. Dallin	Axeman
Arthur E. Laraway	Flagman

BOOK A 241-A

INDEX DIAGRAM.

Township 40 South, *Range* 7 West.

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

Meanders Page.....

6—151

intersect the witness corner to the 1/4 sec. cor.

Preliminary Oaths of Assistants.

WE, ____

____

____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; 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 distance 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 ____

____

____

____

____

______________________________, *Chainman.*

______________________________, *Chainman.*

______________________________, *Chainman.*

______________________________, *Chainman.*

Subscribed and sworn to before me this ______________
day of ______________________, 18 .

____

____

WE, ____

____

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

____

____

____

____

Subscribed and sworn to before me this ______________
day of ______________________, 18 .

______________________________, *Axeman.*

______________________________, *Axeman.*

____

____

6—151

Subdivision of T. 40 S. R. 7 W.

Chains

Survey commenced October 7. 1895: and executed with a W. and L. E. Gurley, light mountain transit (no number) with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah May 14. 1895.

The instrument was examined, tested on a true meridian, determined by Polaris observations, October 2. 1895, the details of which may be found at the beginning of the field notes of the survey of the West boundary of T. 40 S. R. 7 W.

At the cor. of secs. 13. 18. 19 and 24 on E. Bdy. of Tp. which is a sandstone 5X10X8 ins. above ground marked and witnessed as described by the surveyor general, at $8^h.00^m$. a. m. l. m. t. I set off 37°20' N. on the lat. arc. 5°33' S. on the decl. arc. and determine a true meridian with the solar.

Thence I run.

North on the E. Bdy. of sec. 13. and at 40.10 chs. intersect the 1/4 sec. cor: and at 80.18 chs. fall 1 lk. E. of the cor. of secs. 7. 12. 13. and 18. therefore the line bears N.

From the cor. of secs. 13. 18. 19. and 24 I run West, between secs. 13. and 24: at 40.07 chs. fall 1 lk. N. of the 1/4 sec. cor.; and at 80.12 chs. intersect the cor. of secs. 13. 14 23 and 24, therefore the line bears West.

From the cor. of secs. 13. 14. 23 and 24 I run North bet. secs. 13 and 14: at 30.09 chs. intersect the witness corner to the 1/4 sec. cor.

Chains	
	at foot of high sandstone bluff to face the same I offset as follows: West 40.00 chs. North 50.00 chs. East 40.00 chs. to
80.00	Where I fall 22 lks. S. of the cor. of secs. 11. 12. 13 and 14 which is a sandstone 5 X 8 X 8 ins above ground, marked and witnessed as described by the surveyor general. Therefore the bearings are as stated by the surveyor general, and my chaining agrees within the required limit with the field notes of the original survey.
	October 7. 1895. At the cor. of secs. 11. 12. 13. and 14 already described, at 3h. 30m. p.m. l.m.t. I set off 37°21' N. on the lat. arc: 5°41' S. on the decl. arc: and determine a true meridian with the solar.
	Note:—The land to the east of this cor. is rough, mountainous, broken and of no value whatever, for agricultural or grazing purposes. Therefore I run.
	N. 0°01' W. bet. secs. 11 and 12.
	Over ascending stony land through, cedar and pine timber.
0.70	Begin steep descent, bears E. and N.
25.80	Bottom of canon, about 300 ft. below sec. cor. chains N. begin steep ascent
38.15	Top of stony point on N. slope of spur, about 225 ft. above canon, descend.
40.00	Set a sandstone 18 X 12 X 10 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high West of cor. pits impracticable from which: A cedar 10 ins. diam: bears N. 46 1/2° E. 58 lks. dist: marked 1/4 S. B. T. A cedar 11 ins. diam: bears S. 1 1/2° E. 31 lks. dist: marked 1/4 S. B. T.
	Note:—This 1/4 sec. cor. stands immediately

Chains	
	above a high sandstone cliff and is about 65 ft. lower than the sec. cor.
40.50	Foot of cliff, 60 ft. below the 1/4 sec. cor. bears N. 30° E. and S. 30° W. thence slight descent.
54.50	Bottom of ravine, about 200 ft. below the 1/4 sec. cor. drains W. ascend.
59.25	Top of spur, 50 ft. above ravine bears E and W. descend.
66.50	Bottom of ravine, 40 ft. below spur, drains N. 80° W. ascend.
78.50	Top of spur, 60 ft. above ravine, bears N. E. and S. W. thence slight descent.
80.00	Set a sandstone 30 x 8 x 8 ins 23 ins in the ground for cor. of secs. 1. 2. 11 and 12 marked with 5 notches on S. and 1 notch on E. edge. and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable: from which:
	A pine 11 ins. diam: bears N. 18 1/2° E. 56 lks. dist: marked T. 40. S. R. 7. W. S. 1. B. T.
	A cedar 15 ins. diam: bears N. 34 1/2° W. 30 lks. dist: marked T. 40 S. R. 7. W. S. 2 B. T.
	A pine 10 ins. diam: bears S. 20 1/2° W. 26. lks. dist: marked T. 40. S. R. 7 W. S. 11 B. T.
	A cedar 14 ins. diam: bears S. 82 1/2° E. 47 lks. dist: marked T. 40. S. R. 7 W. S. 12 B. T.
	Land mountainous
	Soil, stony, 4th rate.
	Timber, cedar and pine.
	Mountainous or heavily timbered land 80.00 chs.
	October 7. 1895.

October 8. 1895. At the cor. of secs. 1. 2. 11. and 12: at 8h. 12m. a. m. l. m. t., I set off 37° 22' N. on the lat. arc: 5° 57' S. on the decl arc: and determine a true meridian with the solar.

Thence I run:

East on a random line bet. secs. 1 and 12.

40.00	Set temp. 1/4 sec. cor.
80.08	Intersect E. Bdy. of Tp. 9 lks. S. of cor. of secs.

Chains	
	1. 6. 7. and 12 which is a sandstone 7 X 18 X 4 ins. above ground marked and witnessed as described by the surveyor general.
	Thence I run,
	S. 89° 56' W. on a true line bet. secs. 1 and 12
	Over ascending land through cedar and pine timber.
0.60	Top of spur, 5 ft. above sec. cor. bears N. 80° W. and S. 80° E. thence descend along N. slope of spur.
2.50	Leave timber, enter dense oak and scrub undergrowth.
14.50	Enter cedar and pine timber, begin more abrupt descent, bears N. 30° E. and S. 30° W.
35.00	Bottom of ravine, 275 ft. below the sec. cor. drains S. W. ascend.
40.04	Set a sandstone 18 X 14 X 5 ins 12 ins. in the ground marked 1/4 on N. face: and raise a mound of stone 2 ft. base. 1 1/2 ft. high N. of cor. pits impracticable from which:
	A pine 8 ins diam: bears S. 37° E. 8 lks. dist: marked 1/4 S. B. T.
	A cedar 7 ins. diam: bears N. 11° E. 11 lks dist. marked 1/4 S. B. T.
44.25	Top of ridge, 175 ft. above ravine, bears N. 60° E. and S. 60° W. thence steep descent.
57.50	Bottom of ravine, 250 ft. below ridge, drains S. 70° W. ascend.
65.25	Top of spur, 60 ft. above ravine, bears N. 60° E. and S. 60° W. descend.
69.50	Bottom of ravine, 50 ft. below spur, drains S. 60° W. ascend.
79.35	Top of spur, 125 ft. above ravine, bears N. E. and S. W. descend.
80.08	The cor. of secs. 1. 2. 11 and 12.
	Land mountainous
	Soil, clay and stony; 4th rate.
	Timber, cedar and pine.
	Mountainous or heavily timbered land 80.08 chs.

N 0° 01' W. on a random line bet. secs. 1 and 2.

40.00	Set temp. 1/4 sec. cor.
80.46	Intersect N. Bdy. of Tp. 24 lks W. of cor. of secs. 1. 2. 35 and 36. which is a limestone

Subdivision of T. 40 S. R. 7 W. – Continued.

Chains	
	5 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general.
	Thence I run.
	S. 0°.09'. W. on a true line bet. secs. 1 and 2.
	Over ascending land through scattering cottonwood timber and oak and sarves undergrowth.
2.40	Top of W. slope of spur, 10 ft. above sec. cor. descend.
7.50	Rio Virgin River, 50 ft. below top of W. slope of spur, stream 28 ins. deep, 20 lks. wide, water clear, current swift, course S. E. leave timber ascend.
8.32	Road from Saltlake to Orderville bears S. E. and N. W. also foot of mountain, begin steep ascent.
15.30	Top of E. slope of mountain, 130 ft. above Rio-Virgin River. descend.
36.23	Road from Saltlake to Orderville, bears N. E and S. W.
36.75	Leave oak and sarves undergrowth, enter dense willows bears N. E. and S. W.
36.80	Rio Virgin River, 150 ft. below top of E. slope of mountain, stream 16 ins, deep 35 lks. wide, water clear, course S. 30° W. ascend.
39.00	Irrigating ditch course W. leave willows enter oak and sarves undergrowth.
40.46	Set a sandstone 16 x 8 x 6 ins: 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable.
	This 1/4 sec. cor. is about 40 ft. above the Rio Virgin River.
44.30	Ravine, 20 ft. deep, 60 lks. wide, drains W. ascend.
62.00	Top of ascent, 300 ft. above ravine, enter cedar and pine timber bears E. and W. descend
66.50	Bottom of hollow, 25 ft. below point of descent. drains S. W. ascend.
71.75	Top of spur, 40 ft. above hollow, bears E. and W. descend.
80.46	The cor. of secs. 1. 2. 11 and 12.
	This sec. cor. is about 80 ft. below top of spur
	Land Mountainous
	Soil, clay and loam 1st rate.
	Timber cedar, pine and cottonwood.

Subdivision of T. 40 S. R. 7 W. — Continued

Chains	
	Undergrowth, oak, saves and willows Mountainous or heavily timbered land 80.46 chs
	October 8. 1895. At the cor. of secs. 23. 24. 25. and 26, which is a limestone 8 X 16 X 3 ins. above ground marked and witnessed as described by the surveyor general; at 2h. 00m. p. m. l. m. t. I set off 37°. 19' N. on the lat. arc. 6°. 03' S. on the decl. arc: and determine a true meridian with the solar.
	Thence I run.
	North bet. secs. 23 and 24: and at 40.05 chs fall 1 lk. W. of the 1/4 sec. cor: and at 80.16 chs Intersect the cor. of secs. 13. 14. 23 and 24. therefore the line bears N.
	From the cor. of secs. 23. 24. 25 and 26, I run West bet. secs. 23 and 26: and at 39.87 chs intersect the 1/4 sec. cor. consequently the line bears, W.
	Therefore the bearings are as stated by the surveyor general, and my chaining agrees within the required limits with the field notes of the original survey.
	I commence at the 1/4 sec. cor. bet. secs. 23 and 26 which is a red sandstone 12 X 14 X 6 ins. above ground marked and witnessed as described by the surveyor general.
	Thence I run.
	West on a true line bet. secs. 23 and 26. Over steep ascending stony land through cedar and pine timber
14.70	Top of lava bluff, 100 ft. above 1/4 sec. cor. bears N. and S. begin gradual ascent.
23.00	Leave timber, enter sage and oak undergrowth bears N. and S.
— 40.00	Set a sandstone 20 X 12 X 6 ins. 15 ins. in the ground for cor. of secs. 22. 23. 26 and 27. marked with 2 notches on S. and E. edges: and raise a mound of stone 2 ft. base

Chains	
	1½ ft. high W. of cor. pits impracticable.
	This sec. cor. is about 150 ft. above the ¼ sec. cor.
	Land mountainous
	Soil, clay and sand E. and stony 2nd and 4th rate
	Timber, cedar and pine.
	Undergrowth, oak and sage brush.
	Mountainous or heavily timbered land 40.00 chs.
	October 8. 1895.
	October 9. 1895. At 8h. 00m. a.m. l.m.t. I set off 37°. 19' N. on the lat. arc. 6° 19' S. on the decl. arc. and determine a true meridian with the solar, at the cor. of secs. 22. 23. 26 and 27.
	Thence I run,
	N. 0°. 01'. W. bet secs. 22 and 23.
	Over gradually ascending land through sage and oak undergrowth.
12.50	Enter cedar timber bears E. and W.
16.30	Ravine 15 ft. deep, 1.30 chs. wide drains E.
18.50	Top of spur, 40 ft. above ravine, leave sage brush bears E. and W. descend.
23.33	Old wood road, bears W. and N.E.
40.00	Set a sandstone 16 x 10 x 6 ins. 11 ins. in the ground for ¼ sec cor. marked ¼ on W. face: and raise a mound of stone 2 ft base 1½ ft. high W. of cor. pits impracticable from which:
	A cedar 5 ins. diam: bears S. 67° W. 38 lks. dist: marked ¼ S. B. T.
	A cedar 6 ins. diam: bears N. 87° E. 49 lks. dist. marked ¼ S. B. T.
	This ¼ sec. cor. is about 75 ft. below the sec. cor.
46.00	Leave timber bears E. and W.
48.50	Foot of spur, 75 ft. below ¼ sec. cor bears E and W. thence nearly level.
49.00	Leave oak undergrowth, enter rabbit brush bears E. and W.
49.25	Wash 5 ft. deep 8 lks. wide drains E.
49.50	Leave rabbit brush, enter John Harris corn field,

Subdivision of T. 40 S. R. 7. W. – Continued

Chains

no fence bears E. and W.

51.60 A ditch 4 ft. deep, 6 lks. wide drains E.

53.20 Leave cornfield, enter willow undergrowth, bears E. and W.

54.67 Road from cornfield to Glendale, bears E. and W.

55.00 Leave willows enter oak and ravines undergrowth also foot of mountain bears E. and W. begin steep ascent

57.00 Enter pine and cedar timber bears E. and W.

80.00 Set a sandstone 24 X 12 X 10 ins. 18 ins in the ground for cor. of secs. 14. 15. 22. and 23. marked with 3 notches on S. and 2 notches on E. edges: and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable: from which:

23.50
4.50

A pine 7 ins diam: bears N. 22 3/4° E. 34 lks. dist: marked T. 40 S. R. 7. W. S. 14 B. T.

A pine 11 ins. diam: bears N. 33 3/4° W. 39 lks. dist: marked T. 40 S. R. 7. W. S. 15 B. T.

A pine 15 ins. diam: bears S. 34 1/4° W. 59. lks. dist: marked T. 40. S. R. 7. W. S. 22 B. T.

A pine 26 ins. diam: bears S. 28° E. 71 lks. dist. marked T. 40 S. R. 7. W. S. 23 B. T.

This sec. cor. is about 400 ft. above foot of mountain.

Land mountainous.

Soil, clay and sand, N. end stony 2nd and 4th Rates.

Timber pine and cedar.

Mountainous or heavily timbered land 73.50 chs.

East on a random line bet. secs. 14 and 23

40.00 Intersect the 1/4 sec. cor. bet. secs. 14 and 23 which is a sandstone in place 3 X 2 1/2 X 2 ft. above ground marked and witnessed as described by the surveyor general.

Thence I run.

West on a true line bet. secs. 14 and 23.

Over steep ascending mountain through

Chains.	
	pine and cedar timber and oak and sawed undergrowth.
3.00	Foot of sandstone cliff bears N. and S.
3.35	Top of same 75 ft. above foot.
4.40	Top of S. slope of spur 125 ft. above 1/4 sec. cor. descend.
7.60	Bottom of ravine 25 ft. below top of S. slope of spur, drains S. E. ascend.
16.43	A pine 12 ins. diam: on line, I mark with 2 notches on E. and W. sides.
24.27	A pine 8 ins. diam; on line I mark with 2 notches on E. and W. sides.
40.00	The cor. of secs. 14. 15. 22. and 23.
	This sec. cor. is about 450 ft. above the 1/4 sec. cor.
	Land mountainous
	Soil, clay and stone 4th rate.
	Timber, pine and cedar.
	Undergrowth oak and sawed brush.
	Mountainous or heavily timbered land 40.00 chs.

October 9. 1895. At 11h. 47m. a. m. l. m. t. I set off 6° 23' S. on the decl arc: and observe the sun on the meridian: the resulting lat. is 37° 20' N.

Thence I run.

West on a true line bet. secs. 15 and 22. See CORRECTIVE NOTE pp 89-2

Over ascending S. slope of mountain through pine and cedar timber, and some scrub oak and sawed undergrowth.

0.85	Top of sandstone cliff, 15 ft. above sec. cor. bears N. E and S. W. Descend.
15.50	Bottom of ravine, 200 ft. below top of cliff drains S. ascend.
16.70	Top of spur, 20 ft. above ravine bears N. and S. descend.
23.75	Bottom of ravine, 70 ft. below top of spur drains N. Ascend.
25.50	Top of spur, 25 ft. above ravine bears N. and S. descend.
29.00	Leave timber bears. N. and S.
31.40	Bottom of hollow, 350 ft below the sec. cor. drains S. Ascend
33.00	Enter pine and cedar timber bears. N. and S.

Subdivision of T. 40 S. R. 7 W.—Continued.

Chains	
40.00	Set a sandstone 14×10×5 ins. 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. pits impracticable from which: A cedar 10 ins. diam: bears S. 8 1/2° W. 25 lks. dist marked 1/4 S. B. T. A cedar 5 ins. diam: bears N. 9° E. 53 lks. dist. marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 40 ft. above bottom of hollow.
40.70	Top of spur, bears N. and S. Descend
44.00	Leave timber bears N. W. and S. E.
45.60	Foot of spur, 40 ft. below top bears S. E. and N. W. leave oak and saves undergrowth, enter rabbit brush and sage, thence gradual ascent.
53.40	Wash, 5 ft. deep, 35 lks. wide drains S. E. leave sage and rabbit brush, enter oak and saves undergrowth.
54.00	Foot of mountain, bears S. E. and N. W. begin steep ascent.
56.00	Enter cedar and pine timber bears S. E. and N. W.
61.00	On account of the abrupt mountainous and broken condition of the land to the West makes it impossible to continue this line, and the land is of no value, whatever for agricultural or grazing purposes. I discontinue my line at this point and
	Set a sandstone 40×12×8 ins. 30 ins in the ground for witness corner to the cor. of secs. 15. 16. 21 and 22. marked W. C. on N. E. face, with 3 notches on S. and E. edges: and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable from which: A cedar 10 ins. diam: bears N. 77 1/2° E. 39 lks. dist. marked W. C. T. 40 S. R. 7 W. S. 15 B. T. A pine 8 ins. diam: bears N. 30° W. 40 lks. dist: marked W. C. T. 40 S. R. 7 W. S. 16 B. T. A cedar 6 ins. diam: bears S. 35° W. 65 lks. dist: marked W. C. T. 40 S. R. 7 W. S. 21 B. T. A cedar 5 ins. diam: bears S. 59° E. 12 lks. dist: marked W. C. T. 40. S. R. 7 W. S. 22 B. T.
	This cor. is about 100 ft. above foot of mountain.

Subdivision of T. 40 S. R. 7 W. - Continued.

Chains	
	Land mountainous Soil, clay sand and stony 3rd and 4th rates. Timber pine and cedar. Undergrowth oak, sarves, sage and rabbit brush. Mountainous or heavily timbered land 61.00 chs.
	October 9. 1895, at 3h. 00m. p. m. l. m. t. I set off 37°. 21' N. on the lat. arc. 6°. 26'. S. on the decl. arc. and determine a true meridian with the solar, at the 1/4 sec. cor. bet. secs. 11 and 14. Thence I run. West along old line bet secs. 11 and 14. and at 32.07 intersect the witness cor. to cor. of secs. 10. 11. 14 and 15. therefore the line bears W. and my chaining agrees within the required limit with the field notes of the original survey.
	I commence at the witness cor. to the cor. of secs. 10. 11. 14. and 15. which is a sandstone 6 X 8 X 6 ins. above ground marked and witnessed as described by the surveyor general. I obliterate this witness cor. Thence I run. West on a true line bet. secs. 11 and 14 Over steep ascending land through dense oak brush.
2.25	Top of N. slope of spur 55 ft. above the witness cor. descend.
4.25	Bottom of ravine, 25 ft. below top of spur, drains N. 10° E. enter scattering pine and cedar timber Ascend.
8.00	Set a sandstone 30 X 12 X 8 ins. 23 ins. in the ground for cor. of secs. 10. 11. 14 and 15. marked with 4 notches on S. and 2 notches on E. edges: and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable from which: A pine 8 ins. diam: bears S. 80° E. 1.23

Subdivision of T. 40 S. R. 7 W. Continued.

Chains	
	chs. dist: marked T. 40 S. R. 7 W. S. 14 B. T.
	A cedar 30 ins. diam bears N. 35° E. 1.03 chs dist. marked T. 40 S. R. 7 W. S. 11 B. T.
	No other trees within limit.
	Land mountainous
	Soil, clay loam and stone 3rd rate.
	Timber pine and cedar.
	Undergrowth, oak.
	Mountainous land 8.00 chs.
	North bet. secs. 10 and 11.
	Over steep descending mountain through scattering pine and cedar timber and dense oak brush.
6.50	Foot of mountain bears N. W. and S. E. leave timber and undergrowth, enter meadow,
8.00	End of new survey line, thence along old line. After delligent search, did not find old Witness Cor.
16.60	Road from canon to Glendale bears N. W and S. 75° E. Silas Harris house 5.00 chs. E.
40.00	Intersect the 1/4 sec. cor. which is a sandstone 7 x 10 x 5 ins. above ground marked and witnessed as described by the surveyor general.
	From this 1/4 sec. cor. I run.
	N. 0° 01' W. bet. secs. 10 and 11
	Over steep ascending land through pine and cedar timber and oak and sarves undergrowth.
62.70	Top of ridge 175 ft. above 1/4 sec. cor. bears N. 75° W. and S. 75° E. descend.
72.47	Bottom of ravine, 125 ft. below top of ridge drains S. 75° E. ascend.
80.00	Set a sandstone 22 x 10 x 8 ins 17 ins. in the ground for cor of secs. 2. 3. 10 and 11. marked with 5 notches on S. and 2 notches on E. edges: and raise a mound of stone 2 ft. base. 1 1/2 ft. high W. of cor. pits impracticable from which:
	A cedar 9 ins. diam: bears N. 44° E. 53 lks. dist. marked T. 40 S. R. 7 W. S. 2 B. T.
	A cedar 17 ins. diam: bears N. 75° W. 46 lks dist. marked T. 40 S. R. 7 W. S. 3 B. T.

1.50 high
1.50 long
350 Contingent

Subdivision of T. 40 S. R. 7 W. Continued.

Chains	
	A cedar 26 ins. diam. bears S. 42½° W. 74 lks. dist. marked T. 40 S. R. 7 W. S. 10 B. T. A pine 7 ins. diam. bears S. 9¾° E. 98 lks. dist. marked T. 40 S. R. 7 W. S. 11 B. T.
	This sec. cor. is about 50 ft. above bottom of ravine.
	Land mountainous
	Soil, clay loam and stony 1st and 4th rates.
	Timber pine and cedar.
	Undergrowth oak
	Meadow 1.50 chs.
	Mountainous or heavily timbered land 46.50 chs.
	October 9. 1895.
	October 10. 1895.—at 8h. 00m. A. M. L. M. t I set off 37° 22' N. on the lat. arc: 6° 42' S. on the decl. arc: and determine a true meridian with the solar, at the cor. of secs. 2. 3. 10 and 11.
	Thence I run.
	East on a random line bet. secs. 2 and 11.
40.00	Set temp. 1/4 sec. cor.
80.16	Intersect N. and S. line 24 lks. N. of 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 steep descending land through pine and cedar timber and oak and sarvee undergrowth.
9.50	Leave timber bears N. and S.
12.70	Foot of mountain 150 ft. below sec. cor. bears N. 30°. W. and S. 30°. E. leave undergrowth, enter Willis Webb's cultivated field no fence.
14.00	Enter dense willows bears S. 30° E. and N. 30° W.
14.65	Rio Virgin River, stream 14 ins. deep 3.5 lks. wide, course S. 30° E. ascend.
15.90	Top of W. bank leave willows bears S. 30° E.
18.00	Willis Webb's house 8.00 chs. North.
19.31	Willis Webb's rail fence, bears S. 30° E. and N. 30° W. leave field.

Subdivision of T. 40 S. R. 7 W.—Continued.

Chains	
1949	Road from Orderville to Salt Lake City, bears N. 30° W. and S. 30° E.
1955	Foot of mountain, enter dense oak and sarves undergrowth, begin steep ascent bears N. 30° W.
22.00	Enter cedar and pine timber bears N. and S.
23.90	Top of N. slope of spur. 125 ft. above foot. Descend.
25.85	Bottom of ravine, 30 ft. below spur, drains N. Ascend.
40.08	Set a sandstone, 30 X 10 X 8 ins. 23 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft. base. 1 1/2 ft. high N. of cor. pits impracticable: from which A pine 8 ins diam; bears N. 6° W. 31 lks dist. marked 1/4 S. B. T. A pine 7 ins diam: bears S. 23° W: 43 lks dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 175 ft. above ravine.
50.35	Top of spur, 50 ft. above 1/4 sec cor. bears N. 60° W. and S. 60° E. descend.
58.75	Bottom of ravine 100 ft. below spur, drains S. 60° E. Ascend.
69.90	Top of ridge 150 ft. above ravine, bears N. W. and S. E. Descend.
77.65	Bottom of ravine, 125 ft. below spur, drains S. E. Ascend.
80.16	The cor of secs. 2, 3. 10 and 11.
	This sec. cor. is about 45 ft. above ravine.
	Land mountainous
	Soil, black loam, clay and stony 1st and 4th rates.
	Timber cedar and pine.
	Undergrowth oak and sarves brush.
	Mountainous or heavily timbered land 74.31 chs.

N. 0° 01' W. on a random line bet secs. 2 and 3.

40.00	Set temp 1/4 sec cor.
80.94	Intersect N. Bdy. of Tp. 1.27 chs. W. of cor. of secs. 2. 3. 34 and 35, which is a sandstone 8 X 6 X 6 ins. above ground marked and witnessed as described by the surveyor general. A pine 40 ins diam. bears S. 87° E. 60 lks. dist. marked T. 40 S. R. 7. W. S. 2 B. T. I obliterate these marks and mark as follows T. 39 S. R. 7. W.

Chains	
	S 34 B.T. where I
	Set a sandstone 28 X 8 X 6 ins. 21 ins in the ground for closing cor. of secs. 2. and 3 marked C. C. on S. with 2 grooves on E and 4 grooves on W. faces; and raise a mound of stone 2 ft base 1½ ft. high S. of cor. pits impracticable, from which:
	A pine 40 ins. diam bears S. 88½° E. 1.82 chs. dist. marked T. 40 S. R. 7 W. S. 2 B.T.
	A pine 12 ins diam. bears S. 65° W. 1.27 chs. dist: marked T. 40 S. R. 7 W. S. 3 B.T.
	Thence I run,
	S. 0° 01' E. on a true line bet. secs. 2. and 3.
	Over ascending land through scattering pine timber and dense oak and sawes undergrowth.
35.75	Top of ridge 275 ft. above closing cor. enter cedar timber, bears N. 60° W. and S. 60° E. descend.
40.94	Set a sandstone 24 X 14 X 3 ins. 18 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable from which:
	A pine 5 ins. diam bears N. 15½° W. 31 lks. dist: marked ¼ S. B.T.
	A cedar 8 ins. diam: bears N. 82° E. 34 lks. dist: marked ¼ S. B.T.
	This ¼ sec. cor. is about 75 ft below top of ridge
	October 10. 1895. at this ¼ sec. cor. I set off 6° 46' S. on the decl. arc; and at 11h. 47m. A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 37° 22' N.
52.00	Bottom of ravine 125 ft. below ¼ sec. cor. drains S. 60° E. ascend.
68.50	Top of ridge, about 150 ft. above ravine, bears N. 60° W. and S. 60° E. Descend.
80.94	The cor. of secs. 2. 3. 10 and 11.
	This sec. cor. is about 100 ft. below top of spur.
	Land mountainous.
	Soil, clay, sand and stone 4th rate
	Timber pine and cedar.
	Undergrowth oak and sawes brush.

Chains	
	Mountainous or heavily timbered land 80.94 chs.
	October 10. 1895. At 2h. 30m. p. m. l. m. t. I set off 37°. 21' N. on the lat. arc: 6° 48' S. 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.
	West on a true line bet. secs. 10 and 15.
	Over steep ascending mountain through scattering pine and cedar timber and dense oak undergrowth.
6.50	Top of N. slope of mountain, 100 ft. above sec. cor. descend.
11.20	Bottom of ravine 50 ft. below spur, draine N. ascend.
16.25	Top of spur, 60 ft. above ravine, bears N. and S. descend.
21.40	Bottom of ravine. 75 ft. below spur, draine N. ascend.
29.00	Top of spur, 200 ft. above ravine bears N. 60° W. and S. 60° E. descend.
40.00	Set a sandstone 16 X 12 X 6 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft. base. 1 1/2 ft. high N. of cor. pits impracticable, from which:
	A cedar 32 ins. diam: bears S. 58 1/2° W. 38 lks. dist: marked 1/4 S. B. T.
	A cedar 13 ins: diam: bears N. 59° W. 87 lks. dist; marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 60 ft. below top of spur.
43.25	Bottom of ravine, 35 ft. below 1/4 sec cor. draine S. 60° E. ascend.
76.48	Top of ridge 250 ft. above ravine, bears N. W. and S. E. begin steep descent.
80.00	Set a sandstone 24 X 8 X 6 ins. 18 ins. in the ground for cor. of secs. 9. 10. 15 and 16. marked with 4 notches on S. and 3 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. pits impracticable, from which:

Subdivision of T. 40. S. R. 7. W. - Continued.

Chains	
	A cedar 6 ins diam: bears N. 4° W.: 36 lks dist: marked T 40 S. R. 7. W. S. 9. B. T.
	A pine 10 ins. diam: bears N. 81° E.: 67 lks. dist: marked T. 40 S. R. 7. W. S. 10 B. T.
	A cedar 24 ins diam: bears S. 46° E.: 33 lks. dist: marked T 40 S. R. 7. W. S. 15 B. T.
	A cedar 10 ins. diam: bears S. 57° W.: 29 lks. dist: marked T. 40 S. R. 7. W. S. 16 B. T.
	This sec. cor. is about 100 ft. below top of ridge.
	Land mountainous
	Soil, clay, sand and stone 3rd rate.
	Timber cedar and pine.
	Undergrowth dense scrub oak.
	Mountainous or heavily timbered land 80.00 chs
	N. 0° 02' W. bet. secs. 9 and 10.
	Over steep ascending land through cedar and pine timber and scrub oak undergrowth.
3.40	Top of ridge; about 100 ft. above sec. cor. bears N. W. and S. E. descend.
7.00	Bottom of ravine, 70 ft. below ridge drains S. 80° E. ascend.
15.30	Top of ridge 50 ft. above ravine; bears E. & W. descend.
35.40	Bottom of ravine, 300 ft. below spur, drains N. 30° E. ascend.
40.00	Set a sandstone 24 x 12 x 6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable from which:
	A cedar 26 ins. diam: bears W. 33 lks dist: marked 1/4 S. B. T.
	A pine 4 ins. diam: bears S. 48½° W.: 83 lks. dist: marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 40 ft. above ravine.
57.50	Top of spur, 75 ft. above 1/4 sec. cor. heavy timber bears N. E. and S. W. descend.
54.00	South-east cor. of Geo. A. Pootes land 3470 chs. E. bears S. 55° 45' W. and N. 55° 45' E. also N. edge of John Wyatts land.
57.15	Geo. A. Pootes house 36.35 chs. E.

Subdivision of T. 40 S. R. 7 W. – Continued.

Chains	
61.30	Bottom of ravine, 120 ft. below spur, drains N. E. ascend
62.70	Top of N. E. slope of spur 25 ft. above ravine, descend.
71.50	Foot of spur, 75 ft. below top leave undergrowth. bears E. and W. thence slight descend. This line is the dividing line bet. land of J. C. Carpenter and Geo. A. Foote.
73.45	Creek, in bottom of Lydia's canon, stream 4 ins. deep, 3 lks. wide, course S. E. ascend.
74.40	Road from Glendale to head of Lydia's canon bears S. E. and N. W.
80.00	Set a sandstone 24 X 8 X 8 ins: 18 ins. in the ground for cor. of secs. 3. 4. 9. and 10 marked with 5 notches on S. and 3 notches on E. edges: and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. pits impracticable
	This sec. cor. is about 35 ft. above creek
	Land mountainous
	Soil, clay, sand and stone; 2nd rate.
	Timber cedar and pine.
	Undergrowth oak.
	Mountainous or heavily timbered land 80.00 chs.
	October 10. 1895.

October 11. 1895: At 8h. 06m a. m. l. m. t. I set off 37° 22' N. on the lat arc: 7° 04' S. on the decl. arc: and determine a true meridian with the solar.

Thence I run.

East on a random line bet. secs. 3 and 10.

40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line 12 lks. N. of cor. of secs. 2. 3. 10 and 11.

Thence I run.

N. 89° 55' W. on a true line bet. secs. 3 and 10

Over steep ascending land through cedar and pine timber and oak and saves undergrowth

15.30	Top of ridge 150 ft. above ¼ sec. cor. bears N. W. and S. E. descend.

Subdivision of T. 40 S. R. 7 W. - Continued.

Chains	
30.50	Bottom of ravine, 250 ft. below ridge drains S. 30° E. ascend.
38.85	Top of spur, 120 ft. above ravine bears N. and S. descend.
40.07	Set a sandstone 22 x 8 x 6 ins. 17 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. pits impracticable, from which:
	A cedar 11 ins. diam: bears S. 63° E.: 22 lks. dist: marked 1/4 S. B. T.
	A cedar 10 ins. diam: bears N. 59° W.: 59 lks. dist marked 1/4 S. B. T.
	This 1/4 sec. cor. is about 25 ft. below top of spur.
45.70	Bottom of ravine, 90 ft. below 1/4 sec. cor. drains S. E. ascend.
57.00	Top of S. slope of spur, 100 ft. above ravine descend.
59.98	A pine 11 ins. diam: on line I mark with 2 notches on E. and W. sides.
75.00	Leave timber bears N. and S.
77.00	Foot of spur, 175 ft. below top, leave undergrowth bears N. and S.
78.30	Wash, 30 ft. deep, 45 lks. wide, small spring, branch in bottom, course S. 5° W. thence gradual ascent.
80.14	The cor. of secs. 3. 4. 9. and 10.
	Land mountainous
	Soil, sand, clay and stone; 3rd rate.
	Timber pine and cedar.
	Undergrowth oak and scrubs brush.
	Mountainous or heavily timbered land 80.14 chs.

	N. 0° 02' W. on a random line bet. secs. 3 and 4.
40.00	Set temp. 1/4 sec. cor.
81.42	Intersect N. Bdy of Tp. 3.10 chs. W. of cor. of secs. 3, 4. 33 and 34 which is a sandstone 5 X 18 X 12 ins. above ground marked and witnessed as described by the surveyor general.
	A nut pine 13 ins. diam: bears S. 35° W. 30

Chains	
	lks. dist: marked T. 40 S. R. 7 W. S. 4 B. T. I obliterate the marks on this tree, where I
	Set a sandstone 22 X 12 X 6 ins. 17 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; and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. pits impracticable from which:
	A pine 9 ins. diam: bears S. 17½° E.; 28 lks. dist: marked T. 40 S. R. 7 W. S. 3 B. T.
	A pine 12 ins. diam: bears S. 3° W.; 56 lks. dist.; marked T. 40 S. R. 7 W. S. 4 B. T.
	Thence I run
	S. 0° 02' E. on a true line bet. secs. 3 and 4: Over steep descending mountain through pine and cedar timber:
3.75	Bottom of ravine, 30 ft. below closing cor. drains S. 75°. E. Ascend.
22.50	Top of stony point of E. slope of mountain about 75 ft. above ravine, descend.
35.50	Bottom of ravine 125 ft. below stony point, drains E. ascend.
41.42	Set a sandstone 30 X 10 X 4 ins. 23 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor pits impracticable, from which:
	A cedar 11 ins. diam: bears N. 80° E.; 7 lks. dist marked ¼ S. B. T.
	A pine 13 ins. diam: bears N. 62° E.; 28 lks dist: marked ¼ S. B. T.
	This ¼ sec cor. is about 40 ft. above ravine.
44.25	Top of E. slope of spur, 50 ft. above ravine descend.
65.50	Bottom of canon, 175 ft. below spur drains E. Ascend
69.50	Top of E. slope of spur 60 ft. above canon descend.
78.00	Leave timber bears E and W.
80.00	Foot of spur 90 ft. below top leave undergrowth bears N. 15° E. and S. 15° W. thence slight descent
81.42	The cor. of secs. 3. 4. 9 and 10.
	Land Mountainous.

Chains	
	Soil, stony; 4th rate.
	Timber cedar and pine.
	Undergrowth, oak brush.
	Mountainous or heavily timbered land 81.42 chs.
	October 11. 1895 at this corner, at 11h. 47m. a.m. l.m.t. I set off 4°.09' S. on the decl. arc: and observe the sun on the meridian: the resulting lat. is 37°22' N.
	West on a true line bet secs. 4 and 9.
	Over gradually ascending land.
1.00	Foot of spur bears S. W. and N. 15° E. enter dense oak and sawed undergrowth begins steep ascent.
3.50	Top of S. slope of spur, 40 ft. above sec cor. Descend.
5.31	Irrigating ditch at foot of spur, leave undergrowth, bears N. 60° W. and S. 60° E thence slight descent.
5.33	Road from Glendale to head of Lydia's canon bears N. 60° W. and S. 60° E.
5.60	Enter J. C. Carpenters field bears N. 60° W. and S. 60° E.
7.48	Creek in bottom of Lydia's canon, 8 ft. deep, 1.00 ch. wide, stream of clear cold water, 4 ins, deep, 3 lks, wide in bottom, course S. E.
12.50	Leave field, foot of mountain, enter dense oak and sawed undergrowth, bears N. W. and S. E. ascend.
27.50	Top of N. slope of spur, 75 ft. above creek, descend.
33.20	Bottom of ravine, 40 ft. below spur drains N. ascend.
40.00	Set a sandstone 20 X 14 X 4 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. pits impracticable
42.70	Top of spur. 20 ft. above 1/4 sec. cor. bears N. and S. descend.
51.50	Enter pine timber, bears N. E. and S. W.
55.60	Bottom of ravine, 200 ft. below spur drains

chains	
	N. E. ascend
56.00	Enter cedar timber, bears N. and S.
80.00	Set a sandstone 18 X 8 X 6 ins. 12 ins in the ground for cor of secs. 4. 5. 8 and 9. marked with 5 notches on S. and 4 notches on E edges: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. pits impracticable: from which: A pine 5 ins. diam: bears N. 73½° E.: 37 lks. dist: marked T. 40 S. R. 7 W. S. 4 B. T. A cedar 8 ins. diam: bears N. 69½° W.: 16 lks dist: marked T. 40 S. R. 7 W. S. 5 B. T. A pine 11 ins. diam: bears S. 59½° W.: 61 lks. dist: marked T. 40. S. R. 7 W. S. 8 B. T. A cedar 7 ins. diam: bears S. 12° E.: 25 lks dist: marked T. 40. S. R. 7. W. S. 9. B. T.
	This sec. cor. is about 250 ft. above ravine,
	Land mountainous
	Soil, clay, loam, sand and stony: 2nd rate.
	Timber, pine and cedar.
	Undergrowth, oak and sawed brush.
	Mountainous or heavily timbered land 73.10 chs

As my falling in running random line bet. secs. 3 and 4 is more than the allowable limit of error therefore I run N. 0°03' W. on a true line bet. secs. 4 and 5.

Over steep ascending land, through pine and cedar timber and oak and sawed undergrowth.

3.50	Top of spur, 90 ft. above sec. cor. leave timber bears N. E. and S. W. descend.
33.00	Enter scattering pine timber bears E. and W.
34.80	Bottom of ravine, 250 ft. below top of ridge, trains, E. ascend.
36.00	Leave timber bears E. and W.
40.00	Set a sandstone 20 X 12 X 6 ins, 15 ins. in the ground for ¼ sec. cor. marked ¼ on W. face: and raise a mound of stone 2 ft base 1½ ft. high W. of cor. pits impracticable.
	This ¼ sec. cor. stands on top of spur about 40 ft. above

Chains	
	ravine descend.
49.65	Creek, at foot of spur, in bottom of Lydia's canon, about 50 ft. below top of spur. stream 3 ins. deep. 5 lks. wide. course S. 55° E. thence gradual ascent.
50.00	Leave undergrowth enter Homer C. Potts field no fence bears N. 55° W. and S. 55° E.
52.40	Leave field, bears N. 55° W. and S. 55° E.
52.48	Road from Glendale to head of Lydia's canon bears N. 55° W. and S. 55° E.
52.60	Foot of mountain, enter dense oak and cane undergrowth, begin more abrupt ascent bears S. 55° E.
54.50	Enter pine and cedar timber bears E. and W.
74.00	Top of W. slope of spur, 125 ft. above creek leave timber, bears E. and W. descend.
79.00	Enter scattering pines bears E. and W.
80.75	Bottom of ravine, 60 ft. below spur, drains S. 60° W. Ascend.
81.85	Intersect N. Bdy. of Tp. 6.51 chs. W. of cor. of secs. 4. 5. 32 and 33, which is a sandstone 8 x 10 x 4 ins above ground marked and witnessed as described by the surveyor general
9.10 / 2.75	A cedar 4 ins. diam., bears S. E. 52 lks. dist: marked T 40 S. R. 7 W. S 5 B. T. I obliterate the marks on this tree and remark as follows T. 39 S. R. 7 W. S 32 & 33 B. T. where I
	Set a sandstone 20 x 12 x 10 ins. 15 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: and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. pits impracticable, from which
	A pine 30 ins. diam: bears S. 29¼° E.: 2.77 chs dist: marked T. 40 S. R. 7 W. S. 4. B. T.
	A pine 28 ins. diam: bears S. 44° W.: 2.10 chs. dist: marked T. 40 S. R. 7 W. S. 5 B. T.
	This closing sec. cor. is about 35 ft. above ravine
	Land mountainous

chains	
	Soil. black loam, clay and stony; 2nd rate. Timber, pine and cedar. Undergrowth oak and sacoes brush. Mountainous or heavily timbered land 79.10 chs. All the remaining unsubdivided portions of this Tp. are very rough mountainous and broken, and are of no value whatever for agricultural or grazing purposes. therefore I discontinue the subdivision of this Tp. at this point. October 11th. 1895
	October 12. 1895. In subdividing this Tp. (T. 40 S. R. 7. W) my follings on the N. Bdy. of the same have been greater than the allowable limit of error, I therefore, in order to locate the error I retrace a portion of the S. Bdy. of T. 39. S. R. 7. W. as follows; From the cor of secs. 1. 2. 35 and 36 on the S. Bdy. of T. 39. S. R. 7. W. heretofore described. At 8h. 24m A. M. l. m. t. I set off 37° 22' N. on the lat. arc. and 7° 28' E. on the decl. arc. and determine a true meridian with the solar; Thence I run West on a blank line bet. secs. 2 and 35.
39.44	The 1/4 sec. cor. bears N. 22 lks. dist: which is a sandstone 7 X 12 X 4 ins. above ground marked and witnessed as described by the surveyor general.
78.87	The cor. of secs. 34 and 35 bears N. 46 lks. dist. heretofore described. Therefore this line bears N. 89° 40' W. instead of W. as described by the surveyor general.
	From the cor. to secs. 34 and 35. Run N. 89° 40' W. on along the old line on S. side of sec. 34.
1.27	Intersect closing cor. of secs. 2 and 3 heretofore described

Subdivision of T. 40 S. R. 7. W.—Continued

Chains
39.11 The 1/4 sec. cor. bears S. 3 lks. dist; which is a sandstone 10 X 24 X 4 ins. in the ground marked and witnessed as described by the surveyor general.

48.38 Intersect the cor. of secs. 33 and 34 - heretofore described.

Therefore this line bears N. 89° 40' W. and is 1.62 chs. short in measurement.

N. 89° 40' W. on the S. side of sec. 33.

3.10 Intersect the closing cor. to secs. 3 and 4

38.33 The 1/4 sec. cor. bears 2 lks. S. which is a sandstone 8 X 12 X 12 ins. above ground marked and witnessed as described by the surveyor general.

76.74 The cor. of secs. 32 and 33 bears S. 4 lks dist.

Therefore the S. Bdy of sec. 33 bears N. 89° 42' W. and is 3.26 chs. short in measurement.

October 12. 1895

Boundaries of T. 40. S. R. 7. W.
Latitudes, Departures and closing errors.—

Line designated	True bearing	Distance	Latitude N.	Latitude S.	Departure E.	Departure W.
		Chains	Chains	Chains	Chains	Chains
East Boundary	N.	480.00	480.00			
North Boundary	N. 89° 40' W.	481.36	2.80			481.35
West Boundary	S.	482.86		482.86		
South Boundary	E.	480.00			480.00	
Convergency						.55
			482.80	482.86	480.00	481.90
				482.80		480.00
Error in Latitude				.06	Error in Dep	1.90

Subdivision of T. 40 S. R. 7 W. – Concluded.

General Description

This township contains only mountainous land with some small, narrow valleys. The soil of the valleys is very rich, black loam, but irrigation is necessary to the production of crops in any portion of the township. The soil of the mountainous portion is generally of a loamy nature but in many places very stony and may be classed as third rate, but the surface generally is very steep thereby rendering it unfit for any agricultural or grazing purposes.

Pine and cedar timber are found in nearly all portions of this township and many of the pine trees are very large.

Coal was found in Sec. 19.

The township is poorly watered, only very small streams in the valleys, not sufficient to irrigate them.

There are three settlers in Sec. 10, two in Sec. 4, one each in secs. 25 and 22.

Geo. A. Foote in N. W. ¼ Sec. 10. his improvements consist of dwelling house, clearing & grubbing of of 15 acres of land – Value about $400.00

John Wyatt in N. W. ¼ of the S. E. ¼ of Sec. 10. his improvements consist of clearing & grubbing about 20 acres of land. Value about $300.00

Silas Harris in E ½ of S. E. ¼ and the S. W. ¼ of S. E. ¼ of Sec. 10 – his improvements consist of house, clearing and grubbing of about 20 acres of land. Value about $400.00

J. D. Carpenter in S. E. ¼ of Sec. 4, his improvements consist of clearing and grubbing of about 20 acres Value about $300.00

Norman C. Foote in the N. W. ¼ of Sec. 25 & N. E. ¼ Sec. 5. his improvements consist of clearing & grubbing of about 15 acres of land. Value about $225.00

Walter W. Th. in Sec 2. his improvements consist of dwelling house, and house, barn, fences & irrigation ditches Value about $500.00

John Harris in Sec. 22 his improvements consist of clearing and grubbing of about 15 acres of land — Value about $200.00

Robert E. Lee Collier
U.S. Deputy Surveyor.

Volume
#
R0241

BLANK

PAGE

Corrective Wall —

Subdivision of T. 40 S. R. 7 W—

As the western and central portion of this township is high and broken mountains covered with Lava stone in some parts, unfit for any grazing or agricultural purposes, and as I am unable to begin at South boundary of Tp. I begin at Cor. to Secs. 14, 15, 22 and 23. and run west on a true line—

Robert E. Lee Collier
U.S. Deputy Surveyor—

BLANK

PAGE

BLANK

PAGE

~~458~~ 894-895
BLANK

BLANK

PAGE

List of Names.

A list of the names of the individuals employed by Robert E. Lee Collier, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of Township No. 17 South of the Range No. 20 West. Also Subdivision T 17 S, R 19 W.; T 19 S, R 20 W.; Subdivision T. 20 S, R 19 W. Subdivision T. 20 S, R 20 W. Subdivision T 21 S. R 20 W.; Subdivision T 17 S. R. 18 W.; Subdivision T 19 S R 18 W. Subdivision T 20 S R 18 W. Subdivision T 21 S. R. 18 W. Subdivision T 35 S, R 8 W. Subdivision T 37 S, R 7 W.; Subdivision T 38 S, R 10 W. Subdivision T 40 S - R 7 W. of the Salt Lake Base and Meridian, in the Territory of Utah, showing the respective capacities in which they acted:

Andrew B. Larson	Chainman
W. H. Rager Jr.	Chainman
Wm. B. Dougall	Moundman
C. W. Cooper	Moundman
John W. Dallin	Axeman
Arthur E. Laraway	Flagman

Final Oath of Assistants:

We hereby certify that we assisted Robert E. Lee Collier, U. S. Deputy Surveyor, in surveying all those parts or portions of the Subdivision of Township 17 South of Range 20 West, Subdivision T 17 S, R 19 W.; Subdivision T 19 S, R 20 W.; Subdivision T 20 S. R 19 W.; Subdivision T. 20 S. R 20 W. Subdivision T 21 S. R 20 W. Subdivision T 17 S. R 18 W.; Subdivision T 19 S, R 18 W. Subdivision T 20 S, R 18 W.; Subdivision T 21 S, R 18 W. Subdivision T 35 S, R 8 W. Subdivision T. 37 S. R 7 W. Subdivision T 38 S. R 10 W. and the Subdivision T. 40 S - R 7 W. of the Salt Lake Base and Meridian, In the Territory of Utah, as 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 U. S. Surveyor General for the Territory of Utah

Andrew B. Larson Ch
Wm H. Rager Jr. Ch
W. B. Dougall Mound
C. W. Cooper Mound
John W. Dallin Axeman
Arthur E. Laraway Flagm

Subscribed and sworn to before me this 17th day of October, 1895.

SEAL

Thomas C. Callister
County Clerk Millard Co
By John Cooper dep

6—151

~~119~~

Final Oath of U. S. Deputy Surveyor.

I, Robert E. Lee Collier, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from George W. Snow, U. S. Surveyor General for District of Utah, bearing date of the 12th day of March, 1895, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for Utah, the surveying manual, and the laws of the United States, surveyed all those parts or portions of Subdivisions of T. 17 S. R. 20 W.; T. 17 S. R. 19 W.; T. 19 S. R. 20 W.; T. 20 S. R. 19 W. T. 20 S. R. 20 W.; T. 21 S. R. 20 W.; T. 17 S. R. 18 W.; T. 19 S. R. 18 W. T. 20 S. R. 18 W.; T. 21 S. R. 18 W.; T. 35 S. R. 8 W.; T. 37 S. R. 7 W. T. 38 S. R. 10 W.; T. 40 S. R. 7 W. of the Salt Lake Base and Meridian, in the Territory of Utah, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the true 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.

Robert E. Lee Collier
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 22d day of September, 1896

SEAL

George W. Snow
U. S. Surveyor General

Approval.

Office of the U. S. Surveyor General,
Salt Lake City Utah Sept. 22d, 1896.

The foregoing field notes of the survey of Subdivisions of T. 40 S. R. 7 W. of the Salt Lake Base and Meridian executed by Robert E. Lee Collier under his Contract No. 201, dated March 12th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
U. S. Surveyor General.

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

U. S. Surveyor General.

6—151