Volume

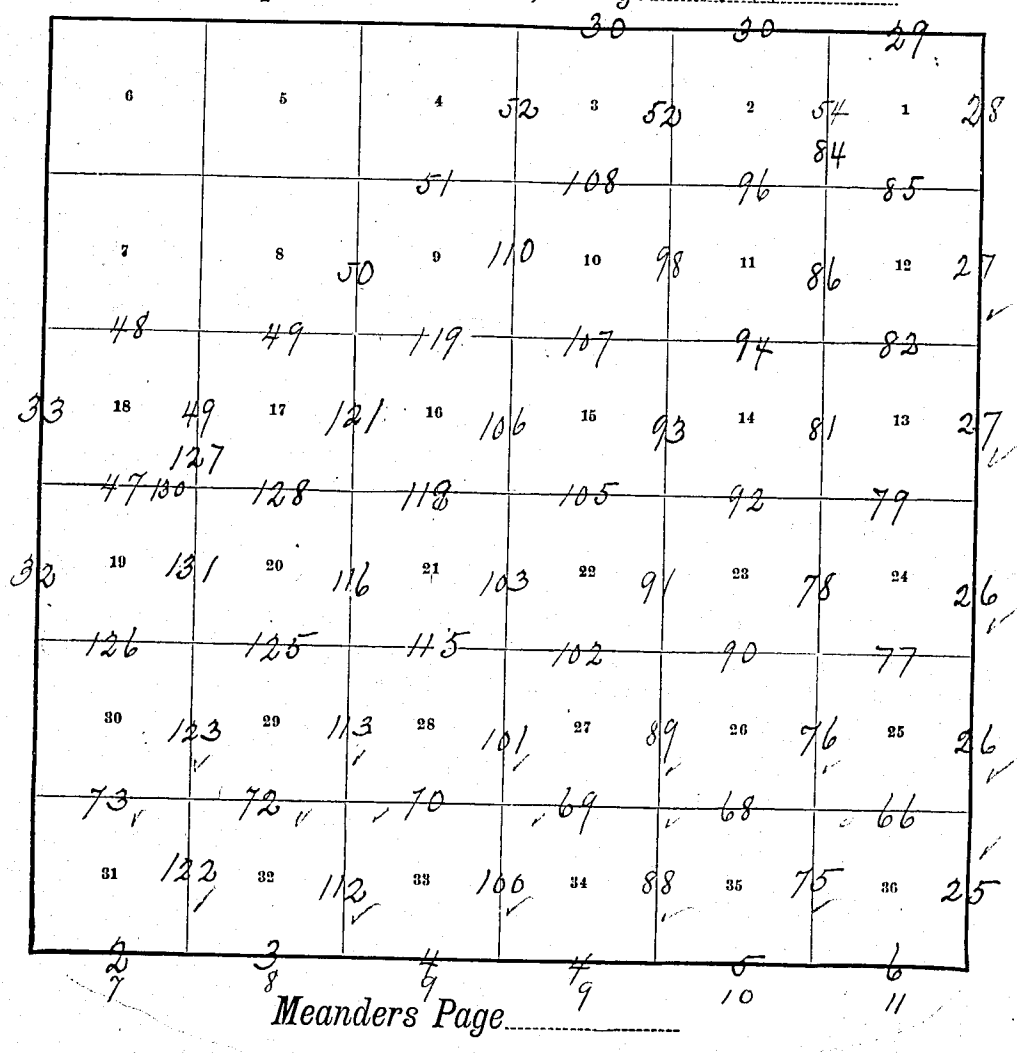
#

R0358

BOOK A-358

INDEX DIAGRAM.

Township 35 S., *Range* 10 W.



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JAN 13 1909

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BOOK A-358

FIELD NOTES

RETRACEMENT
OF THE ~~XXXXXX~~ OF THE

SEVENTH STANDARD PARALLEL SOUTH

through

Range No. 10 West

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew H. Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11th.1901. ~~###~~

Retracement
Survey commenced November 8,1908. ~~180~~

Retracement
Survey completed November 10,1908. ~~180~~

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6-07-05

BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

	Hillman Dalley,	Chainman.
	Edward H. Parry,	Chainman.
	Maeser Dalley,	Moundman.
	George Frith,	Moundman .
	Bert Nelson,	Axman.
	Glen Macfarlane,	Axman.
	David Hunter,	Flagman.
1910:	Maeser Dalley	Chainman.
	Hillman Dalley,	Chainman.
	Maeser Dalley	Moundman.
	Erastus Macfarlane,	Moundman.
	Maeser Dalley,	Axman.
	Hillman Dalley,	Axman.

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Page

1F

PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley and Hillman Dalley do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the corrective survey of retracement of the 7th Standard Parallel South, through R.10 W. of the Salt Lake Base and Meridian.

Maeser Dalley, Chainman.
Hillman Dalley, Chainman.

Subscribed and sworn to before me this 10th. day of February, 1910

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

We, Maeser Dalley and Erastus Macfarlane do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the corrective survey of retracement of the 7th Standard Parallel South, through R.10 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Moundman.
Erastus Macfarlane, Moundman.

Subscribed and sworn to before me this 10th. day of February, 1910.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

We, Maeser Dalley and Hillman Dalley do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the corrective survey of retracement of the 7th Standard Parallel South, through Range 10 W. of the Salt Lake Base and Meridian.

Maeser Dalley, Axman.
Hillman Dalley, Axman.

Subscribed and sworn to before me this 10th. day of February, 1910.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

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

..... Flagman.

Subscribed and sworn to before me this ..... day of ....., 19

SEAL

6—151

Retracement of the 7th.Standard Parralel South,through R.10 W.

Survey commenced November 8,1908,and executed with a W.and L.E.Gurley Light Mountain Solar Transit No.31, provided with R.M.Jones double latitude arc,and reversible level bubble.

The horizontal limb is provided with two double verniers,placed opposite to each other,which read to single minutes of arc;the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds respectively.

The instrument was examined,tested on the True Meridian,at Salt Lake City,Utah,found correct,and was approved by the Surveyor General for Utah,July 27,1901.

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

November 8,1908;At the Standard cor.of Tps.35 S.,Rs. 10 and 11 W.,heretofore described,lat.37° 43' 24" N., longitude 112° 59' 30" W.; at 2h 44m p.m.,l.m.t.,I set off 37° 43' N.on the lat.arc;16° 38' S.on the decl.arc; and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs.N. of the cor.

November 8,1908.

November 9,1908:At 4h 11m a.m.,l.m.t.,I observe Polaris at Western Elongation in accordance with the Manual of Instructions,and mark a point in the line thus determined by a groove cut in a wooden plug driven in the ground 5.00 chs.N.of my station.

Retracement of the 7th.Standard Parallel South,through R.10 W.Contd.

Chains.

At 8^h 30^m a.m.,l.m.t.,I lay off the Azimuth of Polaris 1° 30' to the East and mark the meridian thus determined by a tack driven in the wooden plug already set 5.00 chs.N.of the cor,on which the meridian falls 0.35 ins.E.of the mark determined by the solar.

At 8^h 44^m a.m.,l.m.t.,I set off 37° 43' N.on the lat arc;15° 51' S.on the decl.arc;and mark a point in the meridian determined with the solar by a cross cut on the plug already set 5.00 chs.N.of my station;this mark falls 0.30 ins.E.of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m.observations define positions for meridians respectively about 0' 18" W.and 0' 16" E.of the meridian established by Polaris observation;therefore I conclude the adjustment of the instrument are satisfactory.

The magnetic bearing of the meridian at 9^h 0^m a.m., l.m.t.,is N.15° 45' W.;the angle thus determined gives the mag.decl. 15°45' E.

Note.-Before commencing the subdivision of this Tp. I proceed to retrace the 7th.Standard Parallel South, through R.10 W.,as follows:

Begin at the Standard Cor.of Tps.35 S.,R.10 and 11 W.,heretofore described.

Thence I run

East on a retracement line along the S.side of sec.31

1.55 The closing cor.of Tps.35 S.,Rs.10 and 11 W.,heretofore described.

40.30 Full 16 lks.N.of the standard 1/4 sec.cor.,on S.side of sec.31,which is a white sandstone 5x12x8 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

Chains.

81.60 Fall 33 lks.N.of the standard cor.of secs.31 and 32, which is a white sandstone 12x12x10 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General,except the course and distance to bearing trees,which are as follows:

A cedar 16 ins.dia.,bears N.29° E.48 lks.dist., marked T 35 S R 10 W S 32 B T.

A cedar 10 ins.dia.,bears S.89° E.86 lks.dist., marked T 36 S R 10 W S 5 B T.

A cedar 10 ins.dia.,bears S.43° W.40 lks.dist., marked T 36 S R 10 W S 6 B T.

A cedar 14 ins.dia.bears N.40° W.18 lks.dist., mkd.T 35 S R 10 W. S 31 B T.

The course of this line is therefore,S.89° 46' E. 81.60 chs.

East on a retracement line along S.side of sec.32.

40.10 Fall 14 lks.N.of the standard 1/4 sec.cor.on S.side of sec.32,which is a sandstone 10x16x12 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

80.65 Fall 28 lks.N.of the standard cor.of secs.32 and 33, which is a volcanic stone 10x12x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is,therefore S.89°48' E. 80.65 chs.

November 9,1908:At this cor.I set off 16° 54' S.on the decl.arc;and,at 11h 44m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 43' N.,which is the proper lat.nearly.

Retracement of the 7th.Standard Parallel South,through R.10 W.Contd

Chains.	
	E.on a retracement line along the S.side of Sec.33.
40.21	Fall 15 lks.N.of the standard 1/4 sec.cor.on S.side of sec.33,which is a volcanic stone 10x12x4 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
81.55	Fall 30 lks.N.of the standard cor.of secs.33 and 34, which is a volcanic stone 12x8x4 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
	The course of this line is therefore,S.89° 47' E.81.55 chs.
	November 9,1908.
	November 10,1908:At 8h44m a.m.,l.m.t.,I set off 37°43' N.on the lat.arc;17° 8' S.on the decl.arc;and determine a meridian with the solar at the standard cor.of secs.33 and 34.
	Thence I run
	East on retracement line along the S.side of sec.34.
40.00	Fall 17 lks .N.of the standard 1/4 sec.cor.on S.side of sec.34,which is a sandstone 6x8x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.
80.24	Fall 35 lks.N.of the standard cor.of secs.34 and 35, which is a sandstone 11x12x8 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

Retracement of the 7th.Standard Parallel South,through R.10 W.Contd

Chains.

I raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.

The course of this line is therefore,S.89°45' E.80.24 chs.

East on a retracement line along the S.side of sec.35.

39.96 Fall 8 lks.S.of the standard 1/4 sec.cor.on S.side of sec.35,which is a volcanic stone 10x10x8 ins.above ground,marked as described by the Surveyor General. The bearing trees have been destroyed by fire,there I mark bearing trees as follows:

A balsam 6 ins.dia.bears N.35° E.37 lks.dist., mkd.1/4 S 35 B T.

A balsam 16 ins.dia.,bears N.6 1/2 ° W.40 lks. dist.,mkd.1/4 S 35 B T.

80.85 Fall 15 lks.S.of the standard cor.of secs.35 and 36, which is a volcanic stone 15x18x12 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General,except the N.W.tree ,which has been destroyed by fire,I mark a new bearing tree as follows:

A balsam 8 ins.dia.,bears N.70° W.32 lks.dist., mkd.T 35 S R 10 W S 35 B T.

The course of this line is therefore,N.89° 53' E. 80.85 chs.

November 10,1908:At this cor.I set off 17°11' S.on the decl.arc;and,at 11h 44m a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37° 43' N.,which is the proper lat.nearly.

Retracement of the 7th. Standard Parallel South, through R.10 W. Contd.

Chains.	
	East on a retracement line along the S. side of sec. 36.
41.25	The standard 1/4 sec. cor. on the S. side of sec. 36, which is a volcanic stone 12x14x10 ins., above ground, firmly set and marked and witnessed as described by the Surveyor General.
82.16	The standard cor. of Tps. 35 S., Rs. 9 and 10 W., which is a limestone 12x10x8 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore, East 82.16 chs.

Note.-There is no change in topography on this Standard parallel from that given in the original field notes.

November 10, 1908.

Mayhew H. Dalley,
U.S. Deputy Surveyor.

Corrective Survey of 7th.Standard Parallel South, through R.10 W.

Chains	
	Corrective Survey commenced February 10th.1910, and executed with the instrument described in the original field notes of the Retracement of 7th.Standard Parallel South, through R.10 W., of this Survey.
	I know the instrument to be in adjustment from recent observations made January 31st.and February 1st.1910, at the cor.of Tps.32 and 33 S., Rs.16 and 17 W., and recorded in the Notes of the Corrective Survey of Tp. 32 S., R.17 W. of this Survey.
	I begin at the old standard corner of Tp.35 S., Rs.10 and 11 W., heretofore described in the field notes of the survey of the fractl.East boundary of Tp.35 S., R. 11 W.
	The notches having been previously effaced from this corner stone, I mark W P on N.face for witness point to the standard cor.of Tp.35 S., Rs.10 and 11 W.
	February 10,1910: At this witness point for the standard Tp.corner above described, I set off 37°43' N.on the lat.arc; 14°27' S.on the decl.arc; and, at 9^h14^m a.m., l.m.t., determine a meridian with the solar.
	Thence I run
	S.89°46' E.on retracement line along the S.side of Sec. 31.
1.55	The closing cor.of Tp.35 S., R.10 and 11 W., heretofore described.
40.30	The standard 1/4 sec.cor.heretofore described.
	I efface the 1/4 mark from this corner stone and mark W P on N.face for witness point to the standard 1/4 section cor.on S.side of sec.31.
	I remark each of the old bearing trees with 1/4 S W P B T .
81.60	The old standard cor.of secs.31 and 32 heretofore described, in the notes of the retracement of the 7th. Standard Parallel South, through R.10 W.

Chains.	
	The notches on this corner stone having been previously effaced, I mark W P on N.face for witness point to the standard cor.of secs.31 and 32; and I remark each of the old bearing trees with Township and Range numbers and W P B T facing the corner stone.
	S.89°48' E.on retracement line along the S.side of sec.32.
5.90	The closing cor.to secs.31 and 32 heretofore described.
40.10	The standard 1/4 sec.cor.heretofore described.
	I efface the 1/4 mark on the corner stone and mark W P on N.face for witness point to the standard 1/4 sec. cor.on S.side of sec.32; and I also remark each of the bearing trees with 1/4 S W P B T.
	February 10,1910: At this witness point the sky is overcast at the noon hour and latitude observation impracticable.
80.65	The standard cor.of secs.32 and 33 heretofore described.
	The notches having been previously destroyed from this corner stone, I mark W P on the N.face for witness point to the standard cor.of secs.32 and 33.
	I remark each of the bearing trees with the regular Tp.and R.numbers and W P B T facing the old corner stone.

Corrective Survey of 7th.Standard Parallel South,through R.10 W.

C^h^ains.	
	S.89°47' E.on retracement line along the S.side of sec.33.
5.05	The closing cor.of secs.32 and 33,heretofore described.
40.21	The standard 1/4 sec.corner heretofore described.
	I efface the 1/4 mark from this old corner stone and mark W P.on N.face.for witness point to the old standard 1/4 sec.cor.on S.side of sec.33.
81.55	The old standard cor.of secs.33 and 34 heretofore described.
	The notches having been previously effaced from this old corner stone,I mark the same with W P on N. face for witness point to the standard cor.of secs.33 and 34.
	Note:-I am unable to continue this corrective survey on account of the deep snow making it difficult to follow the line and find the corners.
	February 10,1910.

	June 2,1910:-I set off 37°43' N.on the lat.arc;22° 9' N.on the decl.arc;and at 8^h^58^m^ a.m.,l.m.t.,determine a meridian with the solar at the witness point for the standard corner of secs.33 and 34 on the 7th.Standard Parallel South,R.10 W.
	Thence I run
	S.89°45' E.on retracement line along the S.side of sec.34.
3.57	The closing cor.of secs.33 and 34 heretofore described.
40.00	The standard 1/4 sec.cor.heretofore described.
	I efface the 1/4 mark from the old cor.stone ,and

Corrective Survey of 7th.Standard Parallel South, through R.10 W.

Chains.	
	mark W P on N.face for witness point to standard 1/4 . sec.cor. on S.side of sec.34.
80.24	The standard cor.of secs.34 and 35 heretofore described. The notches having been previously effaced from this corner stone, I mark W P on N.face for witness point to the standard cor.of secs.34 and 35.
	N.89°53' E.along the S.side of sec.35, on retracement line.
3.19	The closing cor.of secs.34 and 35 heretofore described.
39.96	The standard 1/4 sec.cor., heretofore described. I efface the 1/4 mark from the old cor.stone and mark W P on N.face for witness point to the standard 1/4 sec. cor.on S.side of sec.35. I remark each of the bearing trees with 1/4 S W P B T.
80.85	The standard cor.of secs.35 and 36 heretofore described. The notches on the cor.stone having been previously effaced, I mark W P on N.face for witness point to the old standard cor.of secs.35 and 36. June 2,1910: At this standard corner witness point the sky is overcast at the noon hour and latitude observation impracticable. I re-mark the bearing trees with the regular Tp.and R.numbers and W P B T facing the old corner stone.

Corrective Survey of 7th.Standard Parallel South, through R.10 W.

Chains.	East on retracement line along the S.side of sec.36.
2.20	The closing cor.of secs.35 and 36 heretofore described.
41.25	The standard 1/4 sec.cor.heretofore described.
	I efface the 1/4 mark from this cor.stone and mark W P on N.face for standard 1/4 sec.cor.on S.side of sec.36;and I also remark each of the old bearing trees with 1/4 S W P B T.
82.16	The standard cor.of Tps. 35 S.,Rs.9 and 10 W.heretofore described in the field notes of the retracement of the 7th.Standard Parallel South, through R.10 W.of this survey.

June 10th.1910.

Mayhew H. Dalley,
U.S.Deputy Surveyor.

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the corrective survey of the Retracement of 7th. Standard Parallel South, through, R. 10 W. of the S. L. B. and Mer. showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*
Willman Dalley, *Chainman.*
Maeser Dalley, *Moundman.*
Erastus Macfarlane, *Moundman.*
Maeser Dalley, *Axman.*
Hillman Dalley, *Axman.*
Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all those parts or portions of the corrective survey of the retracement of the 7th. Standard Parralel South, through Range 10 West, of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Maeser Dalley, *Chainman.*
Willman Dalley, *Chainman.*
Maeser Dalley, *Moundman.*
Erastus Macfarlane, *Moundman.*
Maeser Dalley, *Axman.*
Hillman Dalley, *Axman.*
Flagman.

Subscribed and sworn to before me this 2nd day of June, 19 10.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

6-161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the Utah, day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of corrective survey of the retracement of 7th Standard Parallel South, through Range 10 West

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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me this 3rd day of June, 19 10.

Wm G. Mears
County Clerk, Iron County, Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

, 19

The foregoing field notes of the survey of

executed by
under his contract No. , dated , 19 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

United States Surveyor General

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

United States Surveyor General

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H.Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey of~~ retracement the Seventh Standard Parallel South, through R.10 W. of the Salt Lake Base and Mer. showing the respective capacities in which they acted:

Hillman Dalley, *Chainman.*
Edward H.Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H.Dalley, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the Seventh Standard Parallel South, through R.10 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley, *Chainman.*
Edward H Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

Subscribed and sworn to before me this 21st. day of December, 1908. ~~1907~~

SEAL

My Commission Expires May 16th, A. D. 1911.

Seneva C Dalley
Notary Public.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11th. day of April, 1901, ~~189~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of the Seventh Standard Parallel South, through R. 10 W.

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

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 21st. day of December, 1908. ~~189~~

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 189

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

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

United States Surveyor General.

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

United States Surveyor General.

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah bearing date of the 18th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States retraced, in three parts or portions of the Seventh Standard Parallel South, through Ranges 8 and 10 West

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

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 17 day of July, 1907

W. C. Morris, County Clerk of Iron County, Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Feb. 25, 1911

The foregoing field notes of the survey of retracement of the Seventh Standard Parallel South, through Range No. 10 West of the Salt Lake Base and Meridian, Utah,

Executed by Mayhew H. Dalley [illegible] 241 dated April 11, 1901, having been [illegible] and explanations made, the said field notes, and the [illegible] are hereby approved.

[illegible]
United States Surveyor General.

[illegible] transcript of the field notes of the above-described surveys in [illegible] has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Page

4—679.

BOOK A-358

Z^5

FILED
JAN 13 1909

FIELD NOTES

OF THE ~~XXXXXX~~ RETRACEMENT OF THE

M.S.B.
E.W.
M.B.

WEST, NORTH AND EAST BOUNDARIES

of

Township No. 35 South, Range No. 10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew H. Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11th. 1901. ~~#### 189~~

Retracement ~~*Survey*~~ *commenced* November 11, 1908. ~~x189x~~

Retracement ~~*Survey*~~ *completed* November 14, 1908. ~~x189x~~

6—151

E. Bly Dec 6 08 77
N. " " 3 01 94
W. " " 2 01 47
11 12 18

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,	Chainman.
Edward H.Parry,	Chainman.
Maeser Dalley,	Moundman.
George Frith,	Moundman.
Bert Nelson,	Axman.
Glen Macfarlane,	Axman.
David Hunter,	Flagman.

or preliminary affidavits see book "Z" T.35 S., R. 11 W.

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BOOK A-358

INDEX DIAGRAM.

Township 35 South, *Range* 16 West.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

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

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

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

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

Retracement of East Boundary of T.35 S.,R.10 W.

Chains.

Survey commenced November 11,1908,and executed with the Instrument described in the notes of the retracement of the 7th.Standard Parallel South,through R.10 W.

I know the instrument to be in adjustment from tests made November 9,1908,at the standard cor.of Tps.35 S., Rs.10 and 11 W.,and recorded in the field notes of the Retracement of the 7th.Standard Parallel South,through R.10 W.

Note.-Before commencing the subdivision of this Tp., I proceed to retrace the E.,fractional N.and fractl.W. bdys.of this Tp.,as follows:

November 11,1908:At 8^h44^m a.m.,l.m.t.,I set off 37°43' N.on the lat.arc; 17°25' S.on the decl.arc;and determine a meridian with the solar,at the standard cor.of Tps. 35 S.,Rs.9 and 10 W.,heretofore described.

Thence I run

N.0°15' E.on a retracement line along the E.bdy.of the Tp.bet.secs.31 and 36.

40.10 Fall 16 lks. E.of the 1/4 sec.cor.,bet.secs.31 and 36, which is a white sandstone 10x18x4 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.

80.30 Fall 33 lks. E.of the cor.of secs.25,30,31 and 36,which is a volcanic stone 9x10x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.

The course of this line is therefore,N.00 1' E.80.30 chs.

Retracement of East Boundary of T.35 S.,R.10 W.-Continued.

Chains.

N.0° 15' E.on a retracement line bet.secs.25 and 30.

40.60 Fall 16 lks.E.of the 1/4 sec.cor.bet.secs.25 and 30, which is a volcanic stone 10x10x5 ins.above ground, firmly set,and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high,W.of cor.

81.38 Fall 33 lks.E.of the cor.of secs.19,24,25 and 30,which is a volcanic stone 10x15x4 ins.,above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

The course of this line is therefore,N.0° 1' E.81.38 chs.

November 11,1908:The sky is overcast and solar observations are impossible at the noon hour.

N.0° 15' E.on a retracement line bet.secs.19 and 24.

40.65 Fall 15 lks.E.of the 1/4 sec.cor.bet.secs.19 and 24, which is a volcanic stone 10x10x10 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General.

81.34 Fall 32 lks.E.of the cor.of secs.13,18,19 and 24, which is a volcanic stone 12x10x10 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

Retracement of the East Boundary of T.35 S.,R.10 W.-Contd.

Chains.

The course of this line is therefore,N.0° 1' E.,81.34 chs.

November 11,1908.

November 12,1908:At 8h 44' a.m.,l.m.t.,I set off 37° 46' N.on the lat.arc; 17°41' S.on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 13,18,19 and 24.

Thence I run

N.0° 15' E.on a retracement line bet.secs.13 and 18.

40.62 Fall 16 lks.E.of the 1/4 sec.cor.bet.secs.13 and 18, which is a volcanic stone 9x14x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

81.40 Fall 33 lks.E.of the cor.of secs.7,12,13 and 18,which is a sandstone 12x8x5 ins.above ground,above ground, firmly set and marked and witnessed as described by the Surveyor general.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

The course of this line is therefore,N.0° 1' E. 81.40 chs.

N.0° 15' E.on a retracement line bet.secs.7 and 12.

40.66 Fall 15 lks.E.of the 1/4 sec.cor.bet.secs.7 and 12, which is a white sandstone 10x12x7 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

Retracement of the East Boundary of T.35 S.,R.10 W.-Continued.

Chains.

I raise a mound of stone 2 ft.base 1 1/2 ft.high,W.of cor.

81.35 Fall 33 lks.E.of the cor.of secs.1,6,7 and 12,which is a sandstone 16x10x10 ins .above ground,firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore,N.0° 1' E.81.35 chs.

November 12,1908:At this cor.I set off 17°44' S.on the decl.arc;and,at 11h 44m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 48' N.,which is the proper lat.nearly.

N.0° 15' E.on a retracement line bet.secs.1 and 6.

41.80 Fall 74 lks. E.of the 1/4 sec.cor.bet.secs.1 and 6, which is a sandstone 10x10x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

83.00 Fall 147 lks.E.of the cor.of Tps.34 and 35 S.,Rs.9 and 10 W.,which is a yellow sandstone 12x15x12 ins.,above ground,firmly set and marked and witnessed as described by the Surveyor General.

The course of this mile is therefore,N.0° 46' W.83.00 chs.

Note.-There is no change in topography from that given in the original field notes.

November 12,1908.

Retracement of the North Boundary of T.35 S.,R.10 W.-

Chains.	
	November 13,1908:At 8h44m a.m.,l.m.t.,I set off 37°49' N.on the lat.arc;17°57' S.on the decl.arc;and determine a meridian with the solar,at the cor.of Tps.34 and 35 S.,Rs.9 and 10 W.,heretofore described.
	Thence I run
	West on a retracement line along the N.bdy.of Tp.bet. secs.1 and 36.
	Gradually descend ,over nearly level land;through dense sage brush and scattering cedars.
7.75	Old road bears NW and SE.
10.50	Summit Creek 20 lks.wide,6 ins.deep,rapid current,rocky bottom,course NW.
15.00	Wood road bears NW and SE.
40.40	Fall 7 lks.N.of the 1/4 sec.cor.bet.secs.1 and 36, which is a blue limestone 10x12x6 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
45.00	Wood road bears N.and S.
69.50	Wood road bears NE and SW.
77.50	Corner of fence bears N.and W.
80.79	Fall 14 lks.N.of the cor.of secs.1,2,35 and 36,which is a granite stone 9x12x7 ins.,above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	The course of this mile is therefore, S.89°54' W.
	80.79 chs. [illegible]
	Land nearly level.
	Soil,gravelly loam;2nd.rate.
	Timber,scattering cedars.
	Undergrowth,sage brush.

Retracement of the North Boundary of T.35 S.,R.10 W.Contd.

Chains.	
	Land covered with dense undergrowth,80.79 chs.
	Over nearly level land.
	West on a retracement line bet.secs.2 and 35.
	Over nearly level land;along fence line;desc.gradually.
37.00	Fence, running south
40.32	Fall 22 lks.N.of the 1/4 sec.cor.bet.secs.2 and 35, which is a granite stone 8x10x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I dig pits 18x18x12 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.
80.60	Fall 44 lks.N.of the cor.of secs.2,3,34 and 35,which is a blue limestone 10x10x4 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	Raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	The course of this mile is therefore,S.89° 41' W.80.60 chs.
	Land nearly level.
	Soil,rich gravelly loam;1st.rate.
	No timber.
	November 13,1908:At this cor.I set off 18° 0' S.on the decl.arc;and,at 11h 44m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 49' N.,which is the proper lat.nearly.
	West on a retracement line bet.secs.3 and 34.
	Over nearly level land.

Retracement of the North Boundary of T.35 S.,R.10 W.-Contd.

Chains.	
	Descend gradually along fence line.
1.75	Old road bears N.60° E. and S.60° W.
	The Cedar-Parowan road bears N.60° E. and W. along N.side of fence.
19.00	Corner of fence bears E.and S.
	Telephone line bears N.50° E.and S.50° W.
19.50	Cedar-Parowan road bears E.and S.50° W.
20.00	Wash 50 lks.wide 10 ft.deep,course N.
21.55	Enter dense sage and yellow top brush,bears NE and SW.
40.40	Fall 9.1lks.N.of the 1/4 sec.cor.bet.secs.3 and 34, which is a blue limestone 8x10x5 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General.
	I dig pits 18x18x12 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.
76.50	Road bears N.75° W.and S.75° E.
80.55	Fall 19 lks.N.of the cor.of secs.3,4,33 and 34,which is an iron stone 10x12x10 ins.,above ground,firmly set, and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	The course of this line is therefore,S.89° 52' W..
	80.55 chs.from this cor.to cor.of secs.2,3,34 and 35.
	Land nearly level.
	Soil,rich gravelly loam;1st.rate.
	No timber.
	Undergrowth,sage and yellow top brush.
	Land covered with dense undergrowth,59.00 chs.
	November 13,1908.

Retracement of West Boundary of T.35 S.,R.10 W.

Chains.

November 14,1908:At 8h44m a.m.,l.m.t.,I set off 37°45' N.on the lat.arc; 18°13' S.on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19, and 30,on W.bdy.of Tp.,which is a trachyte stone 10x10 x9 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

The cor.of secs.24 and 25 on E.bdy.of Tp.35 S.,R.11 W.,heretofore described,bears South 5.27 chs.,dist.

Thence I run

North on a retracement line along W.bdy.of sec.19.

35.24 Fall 6 lks.W.of 1/4 sec.cor.on E.bdy.of Sec.24 T.35 S. R.11 W.,which is a granite stone 12x12x5 ins.above ground,firmly set and marked and witnessed as described by the Sutveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high,W.of cor.

40.65 Fall 7 lks.W.of the 1/4 sec.cor.on W.bdy.of sec.19, which is a granite stone 12x12x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

75.77 Fall 13 lks.W.of the cor.of secs.13 and 24 on E.Bdy. of T.35 S.,R.11 W.,which is a granite stone 6x10x7 ins. above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

80.06 Cedar-Parowan road and Telephone line bears NE and SW.

81.24 Fall 14 lks.W.of the Cor.of secs.18 and 19,which is a granite stone 10x9x9 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

Retracement of West Boundary of T.35 S.,R.10 W.-Continued.

Chains.	
	I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	The course of this line is therefore,N.0° 6' E.81.24 chs.
	Note.-No change in topography from original notes,except the road and telephone line noted at 80.00 chs.
	North on a retracement line along the W.bdy.of Sec.18.
34.55	Fall 6 lks.W.of the 1/4 sec.cor.on E.side of sec.13, T.35 S.,R.11 W.,which is a granite stome 8x10x8 ins. above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
40.11	Fall 7 lks.W.of the 1/4 sec.cor.on W.bdy.of sed.18, which is a granite stone 10x10x8 ins.,above ground, firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
74.55	Fall 13 lks.W.of the cor.of secs.12 and 13 on E.bdy. of Tp.35 S.,R.11 W.,which is an iron stone 10x10x8 ins. above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
80.23	Fall 14 lks.W.of the cor.of secs.7 and 18,which is a granite stone 10x9x7 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	The course of this line is,therefore,N.0°6' E. 80.23

Retracement of West Boundary of T.35 S.,R.10 W.-Continued.

chs.

Note.-No change in topography from old notes.

November 14,1908:At this cor.I set off 18°16' S.on the decl.arc; and,at 11h 44m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°47' N.,which is the proper lat.nearly.

November 14,1908.

Boundaries of T. 35 S.,R. 10 W.

Latitudes,departures and closing errors.

Line Designated	True Bearing	Dist-ance.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
7th.St.Par.S.	West	82.16				82.16
" " " "	S89°53'W	80.85		.16		80.85
" " " " "	N89°45'W.	80.24	.35			80.24
" " " "	N89°47'W.	81.55	.31			81.55
" " " "	N89°48'W	80.65	.28			80.65
" " " "	N89°46'W.	80.05	.33			80.05
W.Bdy.T35S.R.10W.	North	165.89	165.89			
" " " " " "	N0°6' E.	81.24	81.24		.14	
" " " " "	N.0°6' E.	80.23	80.23		.14	
N.bdy.sec.18 sub.T.35 S.R.10W.	N.89°52'E	80.45	.19		80.45	
N.Bdy.sec.17 Sub.T.35S.R.10W.	N89°52'E.	80.60	.19		80.60	
W.bdy.sec.9 Sub.T.35 S.R.10W.	N.0°10' E.	80.20	80.20		.23	
N.bdy.sec.9 Sub.T.35S.R.10W.	S.89°43'E.	80.60		.40	80.60	
W.Bdy.sec.3 Sub.T.35S.R.10W.	N.0°5'E.	79.83	79.83		.12	
N.Bdy.T.35S.R10W.	N89°52'E.	80.55	.19		80.55	
N.Bdy.T35S.R10W.	N89°41'E.	80.60	.44		80.60	
N.Bdy.T35S.R10W.	N89°54'E.	80.79	.14		80.79	
E.bdy.T35S.R10W.	S.0°46'E.	83.00		82.99	1.11	
E.Bdy.T35S.R10W.	S.0°01'W.	405.77		405.77		.12
Convergency					.49	
Totals			489.81	489.32	485.82	485.62
			489.32		485.62	
Error in Lat.			.49			
Error in Dep.					.20	

Retracement of West Boundary of T.35 S.,R.10 W.-Continued.

Mayhew H. Dalley,
U.S.Deputy Surveyor.

November 14,1908.

Volume
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R0358

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ retracement of Fractl. E. Bdy. T. 35 S., R. 11 W.; Fractl. W. and N. Bdys. and E. Bdy. of T. 35 S., R. 10 W., of the Salt Lake Base and Mer., Utah, showing the respective capacities in which they acted:

Hillman Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the Fractl. E. Bdy. T. 35 S., R. 11 W.; Fractl. W. and N. Bdys. and E. Bdy. of T. 35 S., R. 10 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

Subscribed and sworn to before me this 21st. day of December, 1908. ~~1889~~

SEAL

My Commission Expires May 16th, A. D. 1911.

Lenora C. Dalley
Notary Public.

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BOOK A-358

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11th. day of April, 1901, ###, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of Fractl. E. Bdy. T. 35 S., R. 11 W. Fractl. W. and N. Bdys. and E. Bdy. of T. 35 S., R. 10 W.

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

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 21st. day of December, 1908. ###

SEAL

My Commission Expires May 19th, A. D. 1911.

Nora C. Dalley
Notary Public.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

, 189

The foregoing field notes of the survey of

executed by

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

United States Surveyor General.

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

United States Surveyor General.

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS

LIST OF NAMES.

A list of the names of the individuals employed by

United States Deputy Surveyor, to assist [illegible]

marking the lines and corners described in the foregoing field notes of the survey of

[illegible]

showing the respective capacities in which they acted

[illegible]

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

United States Deputy Surveyor, in [illegible]

those parts or portions of the

[illegible]

of the

meridian, [illegible] of [illegible]

in the foregoing field notes as having been surveyed by him and under his direction; and that [illegible] has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for

[illegible]

Subscribed and sworn to before me this

day of [illegible], 19[illegible]

SEAL

[illegible]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11 day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

retracement of the East Boundary of Tp. 35 S., R. 11 W.; and W.N.and E. bdys.T.35 S., R. 10 W.; retracement E.and retracement and resurvey W. bdys.T.35 S., R. 9 W.; resurvey N. and retracement W.bdys.T.35 S., R.8 W.; and the resurvey of E., S., W. and N.bdys.T.32 S., R. 16 W.; S.and E.bdys. T.34 S., R. 9 W.; E.bdy.T.35 S., R. 9 W.; and S. and N.bdys.T. 32 S., R. 17 W. of the

and that I have faithfully and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the foregoing field notes having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said ~~survey~~ retracements and resurveys have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ~~survey~~ retracements and resurveys.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 19th day of July, 1909

Wm. P. Morris County Clerk of Iron County Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Feb.25,1911

The foregoing field notes of the survey of retracement of the West, North, and East Boundaries of Township No.35 South, Range No.10 West of the Salt Lake Base and Meridian, Utah

executed by Mayhew H.Dalley under his contract No. 341, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the plats of said lines, are hereby approved.

Thos. Cell
United States Surveyor General.

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

United States Surveyor General.

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BOOK A-358

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FILED

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FIELD NOTES

M.L.B.

OF THE ~~XXXXXX~~ RETRACEMENT OF THE

SUBDIVISION

of

Township No.35 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew H.Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11,1901, ~~189~~

Retracement
Survey commenced November 16,1908. ~~xxxx~~

Retracement
Survey completed November 17,1908. ~~189x~~

6—151

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,	Chainman.
Edward H.Parry,	Chainman.
Maeser Dalley,	Moundman.
George Frith,	Moundman.
Bert Nelson,	Axman.
Glen Macfarlane,	Axman.
David Hunter,	Flagman.

For preliminary affidavits see book "Z^3 T. 35 S., R.11 W.

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BOOK A-358

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... , *Chainman.*

..... , *Chainman.*

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

SEAL

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

.....

..... , *Moundman.*

..... , *Moundman.*

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

SEAL

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

.....

..... , *Axman.*

..... , *Axman.*

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

SEAL

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

..... , *Flagman.*

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

SEAL

Retracement of Subdivision of T.35 S.,R.10 W.

Chains.

Survey commenced November 16,1908,and executed with the Instrument described in the notes of the retracement of the 7th.Standard Parallel South,through R.10 W.

I know the instrument to be in adjustment from tests made November 9,1908,at the Standard Cor.of Tps.35 S., Rs.10 and 11 W.,and recorded in the field notes of the Retracement of the 7th.Standard Parallel South,through R.10 W.

Note.-Before commencing the subdivision of this Tp.,I proceed to retrace the old subdivision lines adjacent to my work,as follows:

November 16,1908:At 8^h45^m a.m.,l.m.t.,I set off 37°46' N.on the lat.arc;18°43' S.on the decl.arc;and determine a meridian with the solar,at the cor.of secs.18,and 19 on W.bdy.of Tp.,heretofore described.

Thence I run

East on a retracement line bet.secs.18 and 19.

Over nearly level land.

Ascend gradually.

1.50 Cedar-Parowan road bears NE and SW.

31.00 Wood road bears NW and SE.

32.00 Foot of mountain bears NW and SE.

Ascend through dense sage brush.

40.45 Fall 6 lks.S.of the 1/4 sec.cor.,bet.secs.18 and 19, which is a black rock 5x10x6 ins.,above ground,firmly set and marked and witnessed as described by the Surveyor General.

I mark bearing trees as follows:

A cedar 6 ins.dia.,bears N.16 1/4° E.75 lks.dist. mkd.1/4 S 18 B T.

A cedar 6 ins.dia.,bears S.33° W.36 lks.dist.

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

mkd.1/4 S 19 B T.

The course of this line is therefore,N.89°55' E.40.45 chs.

Land mountainous and nearly level.

Soil,gravelly loam;2nd.rate.

No timber.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth, 8.45 chs.

From the cor.of secs.7 and 18 on W.Bdy.of Tp.,heretofore described.

I run

N.89° 50' E.on a retracement line bet.secs.7 and 18.

40.15 Fall 2 lks.N.of the 1/4 sec.cor.bet.secs.7 and 18, which is a porphyry stone 8x10x5 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base/1 1/2 ft.high N.of cor.

80.45 Fall 5 lks.N.of the cor.of secs.7,8,17 and 18,which is a black granite rock 9x12x8 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

The course of this line is therefore,N.89°52' E.80.45 chs.

Note.-No change in topography from old notes.

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

November 16,1908:At this cor.I set off 18°45' S.on the decl.arc;and,at 11h45m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 47' N.

South on a retracement line bet.secs.17 and 18.

Over nearly level land;through dense sage brush.

Ascend gradually.

17.00 Wash 30 lks.wide 6 ft.deep,course W.

Enter scattering cedar and nut pine timber.

34.75 Wood road bears N.80° W.and S.80° E.

40.50 Foot of mountain bears NE and SW.

Fall 6 lks.E.of the 1/4 sec.cor.,bet.secs.17 and 18, which is a granite stone 11x10x6 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I mark bearing trees as follows:

A cedar 6 ins.dia.,bears N.88° E.110 lks.dist., mkd.1/4 S 17 B T.

A cedar 6 ins.dia.,bears S.5 1/2° W.191 lks.dist. mkd. 1/4 S 18 B T.

The course of this line is therefore,S.00° 5' W.40.50 chs.

Land nearly level.

Soil,gravelly loam;2nd.rate.

Timber,cedar and nut pine.

Undergrowth,sage brush.

Land covered with dense undergrowth,40.50 chs.

East on a retracement line bet.secs.8 and 17.

40.34 Fall 9 lks.S.of the 1/4 sec.cor.bet.secs.8 and 17,

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

which is a granite stone 10x12x4 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I mark bearing trees as follows:

A cedar 10 ins.dia.,bears N.23 1/2° W.140 lks. dist.,mkd.1/4 S 8 B T.

A cedar 24 ins.dia.,bears S.10 3/4° E.37 lks.dist. marked 1/4 S 17 B T.

80.60 Fall 19 lks.S.of the cor.of secs.8,9,16 and 17,which is a yellow sandstone 10x18x12 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I mark bearing trees as follows:

A cedar 5 ins.dia.,bears N.20 1/2 ° E.38 lks.dist., mkd. T 35 S R 10 W S 9 B T.

A cedar 5 ins.dia.,bears S.56° E.38 lks.dist., mkd. T 35 S R 10 W S 16 B T.

A cedar 6 ins.dia.,bears S.36 1/2 ° W.42 lks.dist., mkd.T 35 S R 10 W S 17 B T.

A cedar 6 ins.dia.bears N.51 1/2° W.66 lks.dist., mkd. T 35 S R 10 W S 8 B T.

The course of this line is therefore,N.89°52' E.80.60 chs.

Note.-No change in topography from old notes.

North on a retracement line bet.secs.8 and 9.

40.15 Fall 12 lks.W.of the 1/4 sec.cor.bet.secs.8 and 9, which is a granite stone 8x10x6 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

Retracement of Subdivision of T.3[illegible] S.,R.16 W.-Continued.

Chains.

80.20 Fall 23 lks.W.of the cor.of secs.4,5,8 and 9,which is a granite stone 9x10x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

The course of this line is therefore,N.69° 16' E.80.20 chs.

Note.- No change in topography from old notes.

November 16,1908.

November 17,1908:At 8h45m a.m.l.m.t.,I set off 37°46'N. on the lat arc;18°58' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.4,5,8 and 9.

Thence I run

East on a retracement line bet.secs.4 and 9.

40.27 Fall 20 lks.N.of the 1/4 sec.cor.bet.secs.4 and 9,which is a white sandstone 8x10x4 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.

80.60 Fall 40 lks.N.of the cor.of secs.3,4,9 and 10,which is a granite stone 9x14x12 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.

The course of this line is therefore,N.89°43' E.80.60 chs.

Note.-No change in topography from original notes.

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

North on a retracement line bet.secs.3 and 4.

40.20 Fall 5 lks.W.of the 1/4 sec.cor.bet.secs.3 and 4,which is a limestone 8x10x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

79.83 Fall 12 lks.W.of the cor.of secs.3,4,33 and 34,on N. bdy.of T.,heretofore described.

The course of this line is,therefore,N.0° 5' E.79.83 chs.

Note.-No change in topography from original notes.

November 17,1908;At this cor.I set off 19°1' S.on the decl.arc;and,at 11h 45m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 49' N.,which is the proper lat.nearly.

From the cor.of secs.2,3,34 and 35 on N.bdy.of Tp. heretofore described.

I run

South on a retracement line bet.secs.2 and 3.

Over nearly level land;through dense sage brush bet. two cultivated fields.

The line runs along W.side of a row of trees.

30.00 Corner of fence about 15 lks.W.of line;the fence bears W.and S.

40.13 Fall 13 lks.W.of the 1/4 sec.cor.bet.secs.2 and 3,which is a white sandstone 8x8x8ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	I mark a bearing tree as follows:
	A poplar 10 ins.diam.bears N.39 3/4° E.38 lks.dist., marked 1/4 S 2 B T.
	No other trees within limits;raise a mound of stone 2 ft/base ,1 1/2 ft.high W.of cor.
40.43	Fence bears E.and W.;leave field.
40.85	Wash 10 lks.wide,15 ft.deep,course NW.
45.00	Reservoir bears E.about 5.00 chs.dist.,
58.00	Wash 25 lks.wide,6 ft.deep,course NE.
	Enter broken bench covered with large boulders carried by floods.
74.65	Wash 25 lks.wide,8 ft.deep,course NE.Enter cedars.
80.27	Fall 26 lks.W.of the cor.of secs.2,3,10 and 11,which is a white sandstone 8x10x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I mark bearing trees as follows:
	A cedar 6 ins.dia.bears N.62° E.57 lks.dist., mkd.T 35 S R 10 W.S 2 B T.
	A cedar 8 ins.dia.,bears N.20 1/2° W.51 lks.dist., mkd. T 35 S R 10 W S 3 B T.
	No other trees within limits;raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	The course of this line is therefore,S.0° 11' E.80.27 chs.
	Land nearly level and rolling.
	Soil,gravelly loam and rocky;1st.and 4th.rate.
	Timber,scattering cedars;there is a row of cultivated shade trees on the first 1/2 mile.
	Undergrowth,sage brush.
	Land covered with dense undergrowth,80.27 chs.

Retracement of Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	From the cor.of secs.1,2,35 and 36 on N.bdy.of Tp., heretofore described,
	I run
	South on a retracement line bet.secs.1 and 2.
	Over nearly level land;through dense sage brush.
	Descend gradually along fence line.
20.13	Corner of fence bears N.and W.
20.20	Wood road bears NE and SW.
32.00	Foot of Wahsatch Mountain bears NE and SW.
	Ascend.
35.25	Wash 10 lks.wide,5 ft.deep,course NW.
40.26	Fall 19 lks.W.of 1/4 sec.cor.bet.secs.1 and 2,which is a granite stone 10x9x5 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	The course of this line is,therefore,S.0° 16' E.40.26 chs.
	Land nearly level and mountainous.
	Soil,gravelly loam and rocky;1st.and 4th.rate.
	No timber.
	Undergrowth sage brush.
	Land covered with dense undergrowth,40.26 chs.
	November 17,1908.

Mayhew H. Dalley

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ retracement of the Subdivision of T.35 S., R.11 W. and T.35 S., R.10 W. of the Salt Lake Base and Mer. showing the respective capacities in which they acted:

Hillman Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the Subdivision of T.35 S., R.11 W. and T.35 S., R.10 W. of of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

Subscribed and sworn to before me this 21st. day of December, 1908.

SEAL

Senora C. Dalley
Notary Public.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11th. day of April, 1901 ###, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~xxxxxx~~ retraced all those parts or portions of the Subdivision of T.35 S., R.11 W. and T.35 S., R.10 W.

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

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 21st. day of December, 1908. ###, 189

Senora C. Dalley
Notary Public.

SEAL
My Commission Expires May 16th, A. D. 1911.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 189

The foregoing field notes of the survey of

executed by

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

United States Surveyor General.

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

United States Surveyor General.

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

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

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

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

day of ....., 190

SEAL

.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H.Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H.Anderson United States Surveyor General for Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement of subdivisional lines in Tps.34 and 35 S., R. 9 W.; Tp.35 S.Rs.8.10 and 11 W.; and retracement and resurvey of subdivisional lines in Tp.35 S., R. 8 W.

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

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H.Dalley, and sworn to before me this 19th day of July, 1909

Wm. T. Morris
County Clerk of Iron Co.
Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb.25, 1911.

The foregoing field notes of the survey of retracement of the Subdivisional lines, Township No. 35 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H.Dalley under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor General.

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

United States Surveyor General.

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FIELD NOTES

OF THE SURVEY OF THE

M.S.B.

SUBDIVISION

of

Township No.35 South, Range No.10 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew H.Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11,1901. ~~188~~

Survey commenced November 18,1908. ~~189~~

Survey completed December 6,1908. ~~189~~

6—151

high 47-66-61
closing 73'03

BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,	Chainman.
Edward H. Parry,	Chainman.
Maeser Dalley,	Moundman.
George Frith,	Moundman.
Bert Nelson,	Axman.
Glen Macfarlane,	Axman.
David Hunter,	Flagman.

For preliminary affidavits see book "Z^2" T.35 S., R. 10 W.

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BOOK A-358

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

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

.....

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

Subdivision of T.35 S.,R.10 W.

Chains.

Survey commenced November 18,1908,and executed with a W.and L.E.Curley Light Mountain Solar Transit No.31, provided with R.M.Jones double latitude arc,and reversible level bubble.

The horizontal limb is provided with two double verniers,placed opposite to each other,which read to single minutes of arc;the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds respectively.

The instrument was examined,tested on the True Meridian,at Salt Lake City,Utah,found correct,and was approved by the Surveyor for Utah,July 27,1901.

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

November 18,1908:At the cor.of secs.25,30,31 and 36, on the E.bdy.of the Tp.,heretofore described,latitude 37°44' 16" N.,longitude 112°52' 56" W.;at 2h45m p.m.,l. m.t.,I set off 37°44' N.on the lat.arc;19°16' S.on the decl.arc;and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs.N.of the cor.

November 18,1908.

November 19,1908:At 3h 28m a.m.,l.m.t.,I observe Polaris at Western Elongation in accordance with the Manual of Instructions,and mark a point in the line thus determined by a groove cut in a wooden plug driven in the ground 5.00 chs.N.of my station.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

At 8^h 30^m a.m.,l.m.t.,I lay off the Azimuth of Polaris 1° 30' to the East and mark the meridian thus determined by a tack driven in the wooden plug already set 5.00 chs.N.of the cor..,on which the meridian falls 0.38 ins. E.of the mark determined by the solar.

At 8^h 45^m a.m.,l.m.t.,I set off 37°44' N.on the lat. arc; 19°27' S.on the decl.arc;and mark a point in the meridian determined with the solar by a cross cut on the plug already set 5.00 chs.N.of my station;this mark falls 0.32 ins.E.of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0'20" W.and 0' 17" E.of the meridian established by Polaris observation; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 9^h 0^m a.m., l.m.t.,is N.16°05' W.;the angle thus determined gives the mag.decl.16°05' E.

Note.-The 7th.Standard Parallel South or South Boundary of this Township is out of limits in measurement; I therefore deem it necessary to run a Sectional Correction Line W.from the cor.of secs. 25,30,31 and 36; therefore,

I run

West on Sectional Correction Line bet.secs.25 and 36.

Over mountainous land;through dense sage brush.

Ascend.

2.50 Top of knoll on ridge 40 ft.above sec.cor.;ridge bears N.30° E.and S.30° W.

7.50 Fence bears N.and S.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
10.00	Bottom of hollow,150 ft.below knoll,course N.
	Ascend.
20.00	Begin more gradual ascent bears N.and S.
	Enter heavy aspen timber bears N.and S.
40.00	Set a volcanic stone 16x10x8 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	An aspen 10 ins.dia.,bears N.45° E.45 lks.dist., mkd.1/4 S 25 B T.
	An aspen 5 ins.dia.,bears S.24 1/2 ° E.76 lks.dist. mkd.1/4 S 36 B T.
41.50	Top of ridge 100 ft.above hollow,bears N.and S.
	Descend.
49.10	Spring branch 2 lks.wide,1 in.deep in hollow 100 ft.below ridge,course S.
	Ascend.
55.00	N.end of small lake bears S.2.00 chs.dist.
64.25	Road bears NW and S.20° E.
73.00	A small lake or pond bears N.150 lks.dist.
77.50	Top of ridge,75 ft.above hollow,bears NE and SW.
	Descend.
80.00	Set a volcanic stone 16x8x8 ins.,11 ins.in the ground, for cor.of secs.25,26,35 and 36,marked with 1 notch on S.and 1 notch on E.edges;from which
	An aspen 4 ins.dia.,bears N.24°30' E.35 lks.dist., mkd. T 35 S R 10 W S 25 B T.
	An aspen 6 ins.dia.,bears N.44 3/4° W.6 lks.dist., mkd.T 35 S R 10 W S 26 B T.
	No other trees within limits;raise a mound of stone# 2 ft.base,1 1/2 ft.high W.of cor.
	Land mountainous.
	Soil,gravelly loam;2nd.rate.
	Timber,aspen.
	Undergrowth,sage brush.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense sage brush,80.00 chs.
	November 19,1908:At this cor.I set off 19° 29' S.on the decl.arc;and,at 11h45m a.m.l.m.t.,observe the sun on the meridian;the resulting lat.is 37°44' N.,which is the proper lat.nearly.
	West on Sectional Correction Line bet.secs.26 and 35.
	Over mountainous land;through scattering pine and aspen timber and dense oak brush.
	Descend abruptly.
3.00	Leave timber bears N.and S.
31.00	Creek 5 lks.wide 6 ins.deep,rapid current,rocky bottom, clear fresh water,in bottom of East Fork of Braffits Canon 600 ft.below sec.cor.,course N.
	Ascend abruptly;through oak and serviceberry brush.
33.00	Old road bears N.and S.
40.00	Set a yellow sandstone 24x8x4 ins.,18 ins.in the ground for 1/4 sec.cor.,marked 1/4 on N.face [illegible];and raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor. This cor.is 200 ft.above canon.
80.00	Set a yellow sandstone 20x10x4 ins.,15 ins.in the ground,for cor.of secs.26,27,34 and 35,marked with 1 notch on the S.and 2 notches on the E.edges;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor. This cor.is 400 ft.above 1/4 sec.cor.
	Land mountainous.
	Soil,sandy and clay loam;2nd.rate.
	Timber,pine and aspen.
	Undergrowth,oak and serviceberry.
	Good grass for grazing.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	November 19,1908.

	November 20,1908:At 8h46m a.m.,l.m.t.,I set off 37°44' N.on the lat.arc;19°40' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.26,27,34 and 35.
	Thence I run
	West on Sectional Correction Line bet.secs.27 and 34.
	Over mountainous land;through dense oak,serviceberry and sage brush.
	Ascend.
14.00	Road bears N.20° W.and S.20° E.
18.00	Divide bet.E.and W.Forks of Braffits Canon 200 ft .above sec.cor.,bears N.and S.
	Descend.
28.90	Road bears NE and SW.
40.00	Set a sandstone 24x12x4 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 1 1/2 ft.high N.of cor.
55.00	Road bears NE and SW.
56.85	Creek 2 lks.wide 2 ins.deep in W.Fork of Braffits Canon 400 ft.below ridge,course N.10° E.
	Ascend.
57.00	Leave undergrowth,bears N.and S.
58.50	Road bears NW and SE.
	From this point a log cabin bears S.100 lks.dist.;also a log cabin bears SE about 9.00 chs.dist.
60.00	Enter heavy aspen timber bears N.and S.
80.00	Set a trachyte stone 16x10x6 ins.,11 ins.in the ground

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	for cor.of secs.27,28,33 and 34,marked with 1 notch on the S.and 3 notches on the E.edges;from which
	An aspen 5 ins.dia.,bears N.26 3/4 ° E.44 lks.dist. mkd. T 35 S R 10 W S 27 B T.
	An aspen 4 ins.dia.,bears S.9 1/2° E.18 lks.dist., mkd. T 35 S R 10 W S 34 B T.
	An aspen 4 ins.dia.,bears S.85 1/2 ° W.18 lks.dist. mkd. T 35 S R 10 W S 33 B T.
	An aspen 4 ins.dia.,bears N.34° W.18 lks.dist., mkd. T 35 S R 10 W S 28 B T.
	Land mountainous.
	Soil,clay and gravelly loam;2nd.rate.
	Timber,aspen.
	Undergrowth,sage,,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	November 20,1908:At this cor.I set off 19° 43' S.on the decl.arc;and,at 11h 46m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 44' N.,which is the proper lat.nearly.
	West on Sectional Correction Line bet.secs.28 and 33.
	Over mountainous land;through heavy aspen timber.
	Ascend.
5.75	Top of divide ridge,bet.W.Fork of Braffits Canon and hollows draining into valley,200 ft.above sec.cor., bears N.30° E.and S.30° W.
	Descend.
17.50	Head of hollow 250 ft.below ridge,course NW.
	Leave timber and enter dense undergrowth bears N.and S.
	Ascend

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
37.00	Enter scattering pine timber bears NW and SE.
40.00	Top of divide ridge,50 ft.above hollow,bears N.60° W. and S.60° E.
	Set a trachyte stone 16x10x6 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A pine 8 ins.dia.,bears S.40° W.77 lks.dist., mkd. 1/4 S 33 B T.
	No other trees within limits;raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.
	Descend.
45.00	Enter heavy cedar and nut pine timber,bears N.and S.
50.00	Bottom of hollow,400 ft.below ridge,bourse S.
	Ascend abruptly over red ledges.
62.00	Top of ridge 300 ft.above hollow,bears N.and S.
	Leave ledges bears N.and S.
	Descend abruptly.
80.00	Set a quartzite stone 18x16x8 ins.,12 ins.in the ground for cor.of secs.28,29,32 and 33,marked with 1 notch on the S.and 4 notches on the E.edges;from which
	A nut pine 8 ins.dia.,bears N.21° E.59 lks.dist., mkd.T 35 S R 10 W S 28 B T.
	A nut pine 16 ins.dia.,bears S.60° E.6 lks.dist., mkd. T 35 S R 10 W S 33 B T.
	A nut pine 16 ins.dia.,bears S.60° W.19 lks.dist., mkd. T 35 S R 10 W S 32 B T.
	A nut pine 14 ins.dia.,bears N.31° W.39 lks.dist., mkd. T 35 S R 10 W S 29 B T.
	This cor.is 300 ft.below ridge.
	Land mountainous.
	Soil,gravelly loam and rocky;2nd.and 4th.rate.
	Timber,aspen,cedar and pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	November 20,1908.
	November 21,1908:At 8^h46^m a.m.,l.m.t.,I set of $37^o44'$N. on the lat.arc;$19^o54'$ S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.28,29,32 and 33.
	Thence I run
	West on Sectional Correction Line bet.secs.29 and 32.
	Over mountainous land;through heavy cedar and nut pine timber.
	Descend abruptly.
1.00	Bottom of hollow 40 ft.below sec.cor.,course S.30° W.
	Ascend.
17.75	Top of divide ridge 200 ft.above hollow,bears NE and SW.
	Leave heavy timber and enter scattering timber and scattering undergrowth,bears NE and SW.
	Descend.
39.00	Bottom of hollow 300 ft.below ridge,course NW.
	Ascend.
40.00	Set a trachyte stone 18x12x6 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.
47.00	Top of spur 100 ft.above hollow,bears N.and S.
	Descend abruptly.
60.00	Bottom of hollow,500 ft.below spur,course N.
	Ascend gradually.
65.00	Enter heavy cedar and nut pine timber bears N.and S.
80.00	Set a sandstone 18x12x7 ins.,12 ins.in the ground,for cor.of secs.29,30,31 and 32,marked with 1 notch on S.and 5 notches on E.edges;from which

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
	A nut pine 8 ins.dia.,bears N.45° E.21 lks.dist., mkd.T 35 S R 10 W S 29 B T.
	A nut pine 8 ins.dia.,bears S.70° E.19 lks.dist., mkd. T 35 S R 10 W S 32 B T.
	A nut pine 12 ins.dia.,bears S.10° W.67 lks.dist., mkd.T 35 S R 10 W S 31 B T.
	A nut pine 8 ins.dia.,bears N.10° W.8 lks.dist., mkd.T 35 S R 10 W S 30 B T.
	Land mountainous.
	Soil,clay loam and rocky;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,80.00 chs.
	November 21,1908:At this cor.I set off 19°56' S.on the decl.arc;and,at 11h 46m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat is 37°44' N.,which is the proper lat.nearly.
	West on Sectional Correction Line bet.secs.30 and 31.
	Over mountainous land;theough heavy cedar and nut pine timber.
	Ascend gradually.
9.00	Top of ridge,75 ft.above sec.cor.,bears N.and S.
	Descend abruptly over rocks and boulders.
40.00	Set a sandstone 18x8x6 ins.,12 ins.in the ground,for 1/4 sec.cor.,mkd.1/4 on N.face;from which
	A nut pine 8 ins.dia.,bears N.20° E.12 lks.dist., mkd. 1/4 S 30 B T.
	A nut pine 4 ins.dia.,bears S.30° E.16 lks.dist., mkd. 1/4 S 31 B T.
	This cor.is 700 ft.below ridge
46.25	Bottom of hollow 300 ft.below 1/4 sec.cor.,course SW.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Ascend.

58.00 Top of ridge 150 ft.above hollow,bears NE and SW.

Leave rocks and boulders.

Descend.

78.00 Bottom of hollow,300 ft.below ridge,course N.

Continue descend.

86.00 Intersect W.bdy.of Tp.99 lks.S.of the cor.of secs.25, 30,31 and 36,heretofore described.

Set a trachyte stone 20x16x4 ins.,15 ins.in the ground, for closing cor.of secs.30 and 31,marked CC on E.with 5 grooves on N.and 1 groove on S.faces;from which

A cedar 8 ins.dia.,bears N.61 1/2° E.25 lks.dist., mkd. T 35 S R 10 W S 30 B T.

A cedar 4 ins.dia.,bears S.39° E.53 lks.dist., mkd. T 35 S R 10 W. S 31 B T.

Note.-I destroy all marks on the cor.of secs.25,30,31 and 36,which pertain to secs.30 and 31.

Land mountainous.

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

Timber,cedar and nut pine.

Good grass for grazing.

Mountainous or heavily timbered land,86.00 chs.

November 21,1908.

November 23,1908:At 8h46m a.m.,l.m.t.,I set off 37°44' N.on the lat.arc;20° 20' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.25, 26,35 and 36,

Note.-Knowing from previous connections that the line bet.secs.35 and 36 will not close within limits on the 7th.Standard Parallel South,

I run

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	South on a true line bet.secs.35 and 36.
	Over mountainous land;through scattering sage and oak brush.
	Ascend.
2.50	Top of ridge,50 ft.above sec.cor.,bears NE and SW.
	Descend.
7.00	Enter scattering pine and aspen timber bears E.and W.
40.00	Set a trachyte stone 18x12x7 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face ,from which;
	An aspen 10 ins.dia.,bears N.84° E.55 lks.dist. mkd.1/4 S 36 B T.
	Aspen 6 ins.dia.,bears N.63° W.19 lks.dist., mkd. 1/4 S 35 B T.
	This cor.is 400 ft.below ridge.
41.20	Creek 2 lks.wide,1 in.deep,in bottom of E.Fork of Braffits Canon 20 ft.below 1/4 sec.cor.,course NW.
	Ascend.
43.00	Enter heavy pine and aspen timber bears NW and SE.
80.20	Intersect 7th.Standard Parallel South,2.20 chs.E.of the standard cor.of secs.35 and 36,heretofore described . Point for cor.falls on stationary trachyte boulder , 3x3x2 ft.above ground,on which I cut a cross(x)at the exact point for closing cor.of secs.35 and 36,marked CC on N.,with 1 groove on E.and 5 grooves on W.faces;from which
	A balsam 16 ins.dia.,bears N.31° E.43 lks.dist., mkd. T 35 S R 10 W S 36 B T.
	An aspen 9 ins.dia.,bears N.79° W.30 lks.dist., mkd. T. 35 S R 10 W. S 35 B T.
	I destroy all marks on the standard cor.of secs.35 and 36,which pertain to secs.35 and 36.
	Land mountainous.
	Soil,gravelly loam and rocky;2nd.and 4th.rate.
	Timber ,pine and aspen.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Undergrowth,oak and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.20 chs.

November 23,1908:At the noon hour the sky is overcast and solar observations are impossible.

North bet.Secs.25 and 26 .

Over mountainous land;through heavy pine and aspen timber.

Descend.

40.00 Set a volcanic stone 14x8x4 ins.,9.ins.in the ground, for 1/4 sec.cor.,mkd.1/4 on W.face;from which

A balsam 12 ins.dia.,bears N.52 ^{o} E.75 lks.dist., mkd.1/4.S 25 B T.

A balsam 12 ins.dia.,bears S.20 3/4° W.76 lks.dist. mkd.1/4 S 26 B T.

70.25 Bottom of hollow,600 ft.below sec.cor.,course W.

Enter dense mahogany and serviceberry brush,bears E.and W.

Leave heavy and enter scattering timber bears E.and W.

Ascend.

80.00 Set a volcanic stone.16x12x6 ins.11 ins.in the ground, for cor.of secs.23,24,25 and 26,marked with 2 notches on the S.and 1 notch on the E.edges;from which

A yellow pine 24 ins.dia.,bears N.55 1/2° E.145 lks.dist.,mkd. T 35 S R 10 W S 24 B T.

A cedar 6 ins.dia.,bears N.51° W.,39 lks.dist., mkd. T 35 S R 10 W S 23 B T.

No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

Land mountainous.

Soil,gravelly loam and rocky;2nd.and 4th.rate.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains	
	Timber, pine, aspen, and cedar.
	Undergrowth, serviceberry and mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land 80.00 chs.
	November 23, 1908.
	Knowing from retracement of E.bdy.of this Tp. that the line bet.secs.24 and 25 will not intersect E.bdy.of Tp.within limits, I run
	East on a random line bet.secs.24 and 25, for distance only.
40.00	Set temp. ¼ sec.cor.
80.20	Intersect E.bdy.of Tp.138 lks.S.0° 1'W.of the cor.of secs.19,24,25, and 30, heretofore described.
	Set a volcanic stone 15 x 8 x 5 ins., 10 ins.in the ground for closing cor.of secs.24 and 25, marked C C on W., with 4 grooves on N. and 2 grooves on S.faces; from which
	An aspen 6 ins.dia., bears S.35° 45' W.10 lks. dist., mkd.T 35 S R 10 W S 25 B T
	An aspen 5 ins.dia., bears N.33° 30' W. 17 lks. dist., mkd.T 35 S R 10 W S 24 B T
	I destroy all marks on the cor.of secs.19,24,25, and 30 which pertain to secs.24 and 25.
	Thence I run
	West on true line bet.secs. 24 and 25,
	Over meadow,
5.20	Leave meadow, bears N. and S. Enter aspen,bears N. & S.
18.95	Creek, 4 lks.wide, 2 ins.deep, in bottom of wash, 20 lks.wide, 6 ft.deep, course N.
	Descend.
28.95	Road bears N. and S., in bottom of hollow, 150 ft.below ridge, course N.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains.	
31.20	Leave aspen timber; enter dense undergrowth and scattering timber, bears E. and W.
40.10	Set a volcanic stone 16 x 8 x 6 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Ascend.
42.21	Top of ridge 500 ft.above cor.secs.23,24,25, and 26, bears N. and S. Descend.
80.20	The cor.of secs.23,24,25, and 26.
	Land, mountainous.
	Soil, gravelly; 3d rate.
	Timber, aspen.
	Undergrowth, serviceberry, larb, and mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth 80.20 chs.
	November 23, 1908.

November 24, 1908: At 8 h. 47 m.a.m.l.m.t.I set off 37° 45' N.on the lat.arc; 20° 32'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.23,24,25, and 26.

Thence I run

North bet.secs.23 and 24,

Over mountainous land; through dense mahogany and larb undergrowth and scattering pine and cedar timber.

5.00	Top of ridge, 50 ft.above sec.cor., bears E. and W.
	Descend.
12.00	Bottom of hollow, 200 ft.below ridge, course N.80° W.
	Ascend.
40.00	Set a volcanic stone 16 x 10 x 4 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

Subdivision of T. 35 S., R. 10 W.- Continued.

44.00	Top of ridge, 50 ft.above ¼ sec.cor., bears N.40° W. and S.40° E.
	Descend along E.slope of ridge.
80.00	Set a granite stone 18 x 8 x 5 ins., 12 ins.in the ground, for cor.of secs.13,14,23, and 24, mkd.with 3 notches on the S. and 1 notch on the E.edges; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, pine and cedar.
	Undergrowth, mahogany and larb.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	For reasons already explained, I run
	East on random line bet.secs.13 and 24, for distance only.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp. 2.90 chs.S.0° 1'W.of the cor.of secs.13,18,19, and 24, heretofore described.
	Set a granite stone 18 x 12 x 6 ins., 12 ins.in the ground, for closing cor.of secs.13, and 24, mkd.C C on W., with 3 grooves on N. and 3 grooves on S.face; and raise a mound of stone 2 ft.base, 1½ ft.high W. of cor.
	I destroy all marks on the cor.of secs.13,18.19, and 24, which pertain to secs.13 and 24,
	Thence I run
	West on a true line bet.secs 13 and 24,
	Ascending, over mountainous land.
3.00	Enter pine and aspen timber, bears N. and S.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains.

10.45 Road, bears N.10° W. and S.10° E.

Leave pine and aspen timber, bears N. and S.

12.10 Road bears N. and S.

14.25 Enter dense mahogany bears NE. and SW.

Ascend.

21.00 Top of ridge 100 ft.above swale, bears NE. and SW.

Leave mahogany, bears NE. and SW.

30.00 Descend through heavy aspen timber bears N. and S.

37.000 Old road and trail bears NE. and SW., in bottom of swale 25 ft.below ¼ sec.cor., course NE.

40.00 Set a granite stone 18 x 12 x 6 ins., 12 ins.in the ground, for ¼ sec.cor., marked ¼ on N.face; from which

A birdseye pine, 24 ins.dia., bears N.83° W. 217 lks.dist., mkd.¼ S 13 B T

No other bearing trees within limit; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor.

Ascend.

49.50 Top of ridge, 250 ft.above hollow, bears NE. and SW.

Descend.

67.60 Creek, 2 lks.wide, 2 ins.deep, in bottom of hollow, 150 ft.below sec.cor., course NW.

Ascend.

80.00 The cor.of secs.13,14,23, and 24.

Land, mountainous.

Soil, gravelly;3d rate.

Timber, pine and aspen.

Undergrowth, serviceberry, oak and mahogany.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth 80.00 chs.

Nov.24, 1908: At this cor.I set off 20° 34' S.on the decl.arc; and at 11 h. 47 m.a.m.l.m.t.observe the

Subdivision of T. 35 S., R. 10 W- Continued.

Chains.	
	sun on the meridian; the resulting lat.is 37° 46'N. which is the proper lat.nearly.
	North bet.secs.13 and 14,
	Over mountainous land; through dense oak and service-berry brush; descending.
15.15	Bottom of ravine, 50 ft.deep, course NE. Ascend.
19.50	Top of spur, 50 ft.above ravine, bears E. and W. Descend.
24.85	Bottom of hollow, 150 ft.below spur, course NW.; creek 2 lks.wide, 1 in.deep, in bottom. Ascend.
31.40	Leave undergrowth and enter heavy timber, bears NW. and SE.
36.00	Leave timber; enter dense undergrowth bears NW. and SE.
40.00	Set a granite stone 16 x 12 x 6 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on W.face; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
41.45	Top of ridge, 150 ft.above hollow, bears NE. and SW. Descend.
52.25	Enter heavy timber, bears NE. and SW.
53.50	Bottom of hollow, 10 ft.below ridge, course N.60° W. Ascend.
58.00	Top of ridge, 100 ft.above hollow, bears N.70° W. and S.70° E.
	Leave timber, bears N.70° W. and S.70° E. Descend.
65.00	Enter heavy timber, bears NW. and SE.
68.50	Bottom of hollow, 200 ft.below ridge, course N.70° W. Ascend.
75.00	Begin more gradual ascent along W.slope of ridge, bears NW. and SE.
80.00	Set a yellow sandstone 24 x 14 x 6 ins., 18 ins.in the ground, for cor.of secs.11,12,13, and 14, marked with

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains.	
	4 notches on S. and 1 notch on E.edges; from which A nut pine, 10 ins.dia., bears N.15° E. 74 lks. dist., mkd.T 35 S R 10 W S 12 B T A nut pine, 22 ins.dia., bears S.35° 45'E. 16 lks. dist., mkd.T 35 S R 10 W S 13 B T A cedar 14 ins.dia., bears S.8° W. 38 lks.dist. mkd.T 35 S R 10 W S 14 B T A cedar 30 ins.dia., bears N.84° W. 19 lks.dist. mkd.T 35 S R 10 W S 11 B T. Land, mountainous. Soil, gravelly and stony; 3d and 4th rate. Timber, cedar and nut pine. Undergrowth, serviceberry and oak brush. Good grass for grazing. Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	For reasons already explained, I run East on a random line bet.secs.12 and 13, for distance only.
40.00	Set temp. ¼ sec.cor.
79.90	Intersect E.bdy.of Tp.4.28 chs.S.0° 1'W.of the cor.of secs.7,12,13, and 18, heretofore described. Set a sandstone 2 0 x 12 x 4 ins., 15 ins.in the ground for closing cor.of secs.12 and 13, marked C C on W. with 2 grooves on N. and 4 grooves on S.faces; and raise a mound of stone 2 ft.base, 1½ ft.high W.of cor. I destroy all marks on the cor.of secs.7,12,13, and 18, that pertain to cor.of secs.12 and 13, Thence I run West on a true line bet.secs.12 and 13, Over mountainous land; ascending.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains.	
26.90	Top of rocky ridge, bears N. and S. Descend.
31.90	Bottom of hollow, 75 ft.below top of ridge, course N. Small pond of water 5.00 chs.S.of line in bottom of hollow. Ascend.
39.95	Top of ridge, 100 ft.above hollow, bears N. and S. Set a granite stone 20 x 14 x 4 ins., 15 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. Descend.
55.00	Bottom of swale 400 ft.below top of ridge, course N. Ascend.
61.40	Top of ridge, 250 ft.above swale, bears N. and S. Descend.
69.95	Bottom of hollow, 300 ft.below ridge, course N. Enter timber, bears N. and S. Ascend.
78.90	Top of spur, 100 ft.above hollow, bears N. and S. Descend; through heavy cedar and nut pine timber, and scattering undergrowth.
79.90	The cor.of secs.11,12,13, and 14. Land, mountainous. Soil, gravelly; 3d rate. Timber, cedar and nut pine. Undergrowth, mahogany, serviceberry and oak. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth 79.90 chs. November 24, 1908.

Nov.25, 1908: At 8 h. 47 m.a.m. .m.t.I set off 37° 48' N.on the lat.arc; 20° 44'S.on the decl.arc; and determine a meridian with the solar at the ¼ sec.cor. bet.secs.1 and 2, heretofore described.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains. Note: Before running the line bet.secs.11 and 12, I proceed to complete the survey of sec.1 as follows:

From the above described ¼ sec.cor.I run

South, between the south halves of secs.1 and 2,

Over mountainous land; through dense sage, serviceberry and oak brush.

Ascend.

2.20 Wood road bears N.30° E. and S.30° W.

15.00 Top of ridge, 100 ft.above cor., bears NE. and SW.

Descend.

16.65 Enter heavy cedar and nut pine timber, bears NE. and SW.

29.00 Wood road bears N.20° E. and S.20° W.

Foot of ridge, bears N.20° E. and S.20° W.

Ascend NW.slope of ridge.

40.00 Set a yellow sandstone 16 x 12 x 4 ins., 11 ins.in the ground, for cor.of secs.1 and 2, marked with 5 notches on the S. and 1 notch on the E.edges; from which

A nut pine 9 ins.dia., bears N.14° E. 46 lks.dist. mkd.T 35 S R 10 W S 1 B T

A nut pine 10 ins.dia., bears N.43½° W. 28 lks. dist., mkd.T 35 S R 10 W S 2 B T

Note: I set this cor.for secs.1 and 2 only, knowing from retracement of the E. and N.bdys.of the Tp.that a closing cor.will be required for secs.11 and 12.

Land, mountainous.

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

Timber cedar and nut pine.

Undergrowth, sage, serviceberry and oak.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth 40.00 chs.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Note.-Knowing from connections already made that the line bet.secs.1 and 12 will not close on the E.bdy. within limits, and will be excessive in length
	I run
	East on a true line bet.secs 1 and 12.
	Over mountainous land;through heavy cedar and nut pine timber and scattering serviceberry and oak brush.
18.00	Top of ridge 400 ft.above cor.bears N.75° E.and S.75°W.
	Descend gradually.
30.75	Begin abrupt descent,bears NW. and SE.
	Leave timber and emter dense undergrowth,bears NW and SE.
36.25	Bottom of hollow 300 ft.below ridge,course NW.
	Enter scattering timber bears NW and SE.
	Ascend over rocky ground.
40.00	Set a yellow sandstone 15x10x5 ins.,10 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A nut pine 6 ins.dia.,bears N.75 1/4° E .110 lks.dist.,marked 1/4 S.1 B.T.
	A nut pine 8 ins.dia.,bears S.85° E.165 lks. dist.mkd. 1/4 S 12 B T.
45.60	Top of ridge 100 ft.above 1/4 sec.cor.bears N.and S.
	Enter heavy timber bears N.and S.
	Descend.
48.75	Bottom of hollow,100 ft.below ridge,course NE.
	Ascend.
60.60	Wash 15 ft.deep,20 lks.wide,course N.15° E.
62.00	Trail bears N.and S.
72.75	Top of ridge 150 ft.above hollow,bears N.and S.
	Descend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

81.78 Intersect E.bdy.of Tp.2.74 chs. N.0° 46' W.of the cor. of secs.1,6,7 and 12,heretofore described.

Set a yellow sandstone 24x12x10 ins.,18 ins.in the ground,for closing cor.of secs.1 and 12,marked CC on W.,with 1 groove on N.and 5 grooves on S.faces;from which

A nut pine 16 ins.dia.,bears N.72 1/2 ° W.120 lks.dist.,mkd.T 35 S.. R 10 W S 1 B T.

A nut pine 6 ins.dia.,bears S.84 1/2 ° W.102 lks. dist.,mkd.T 35 S R 10 W S 12 B T.

Note.-I destroy all marks on the cor.of secs.1,6,7 and 12,which pertain to secs. 1 and 12.

Land mountainous.

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

Timber,cedar and nut pine.

Undergrowth,serviceberry and oak brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,81.78.

November 25,1908:At this cor.I set off 20°46'S.on the decl.arc;and,at 11h47m a.m.l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 48' N.,which is the proper lat.nearly.

From the cor.of secs.11,12,13 and 14,for reasons already explained,

I run

N.on a true line bet.secs.11 and 12.

Over mountainous land;through heavy timber and scattering oak and serviceberry undergrowth.

Descend.

Subdivision of T.35 S.,R.10 W. Continued.

Chains.	
7.00	Bottom of ravine 150 ft.below cor.,course NW.
	Leave timber and enter dense undergrowth,bears NW and SE.
	Ascend.
13.40	Top of ridge,50 ft.above ravine,bears NW and E.
	Descend.
30.60	Bottom of hollow 300 ft.below ridge,course W.
	Ascend.
40.00	Set a granite stone 14x10x8 ins.,9 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face; and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
44.50	Top of ridge 150 ft.above hollow,bears N.70° E.and S. 70° W. Descend through heavy timber.
52.75	Bottom of hollow,250 ft.below ridge,course W.
	Ascend.
70.25	Top of ridge 200 ft.above hollow,bears N.70° W.and S. 70° E.
	Descend.
82.75	Bottom of ravine 400 ft.below ridge,course NW.
	Ascend.
84.40	Wood road bears NW and SE.
86.75	Top of spur 250 ft.above ravine,bears E.and W.
	Descend.
88.25	Intersect E.and W.line 175 lks.E.of the cor.of secs.1 and 2,
	Set a yellow sandstone 24x14x8 ins.,18 ins.in the ground,for closing cor.of secs 11 and 12,marked with CC and 5 grooves on S. and 1 groove on E.faces;from which
	A cedar 18 ins.dia.,bears S.58 1/2° E.40 lks.dist. mkd. T 35 S R 10 W S 12 B T .
	A nut pine 7 ins.dia.,bears S.60 1/2 ° W.20 lks. dist.,mkd.T 35 S R 10 W S 11 B T.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Land mountainous.

Soil,gravelly and stony;3rd.and 4th.rate.

Timber,cedar and nut pine.

Undergrowth,oak and serviceberry.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,88.25.

November 25,1908.

November 26,1908:At 8^h47^m a.m.,l.m.t.,I set off 37°44' N.on the lat.arc; 20°55' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.26, 27,34 and 35,heretofore described.

Thence I run,for reasons already explained,

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

Over mountainous land;through dense oak and serviceberry brush.

Ascend gradually along E.slope of ridge.

40.00 Set a sandstone 22x12x4 ins.,16 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face ;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

65.00 Top of divide ridge,bet.East Fork of Braffits Canon and Fiddler's Canon 150 ft.above 1/4 sec.cor.,bears NW and SE.

Descend.

74.00 Road bears NW and SE.

80.16 Intersect 7th.Standard Parallel South 3.19 chs.N.89°53' E.of the standard cor.of secs.34 and 35,heretofore described.

Set a sandstone 20x12x4 ins.15 ins.in the ground,for closing cor.of secs.34 and 35,marked CC on N.;with 2 grooves on E.and 4 grooves on W.faces;and raise a

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	mound of stone 2 ft.base,1 1/2 ft.high N.of cor.
	Note.-I destroy all marks on the standard cor.of secs. 34 and 35,which pertain to secs.34 and 35.
	Land mountainous.
	Soil,sandy and gravelly loam;2nd.rate.
	No timber.
	Undergrowth,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	80.16 chs.

	North 0° 1' W.bet.secs.26 and 27.
	Over mountainous land;through dense serviceberry,sage and oak brush.
	Ascend gradually.
4.00	Top of spur 20 ft.above sec.cor.,bears E.and W.
	Enter dense aspen saplings bears E.and W.
	Descend gradually along E.slopw of ridge.
30.00	Leave aspen saplings bears E.and W.
40.00	Set a yellow sandstone 14x9x5 ins.,9 ins.in the ground, for 1/4 sec.cor.,mkd.1/4 on W.face;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
50.00	Begin abrupt descent bears E.and W.
51.00	Enter heavy aspen timber bears E.and W.
76.00	Bottom of hollow 500 ft.below 1/4 sec.cor.,course E.
	Leave timber bears E.and W.
	Ascend.
80.00	Set a yellow sandstone 20x10x8 ins.,15 ins.in the ground,for cor.of secs.22,23,26 and 27,marked with 2 nothhes 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.
	Land mountainous.
	Soil,sandy and gravelly loam;2nd.rate.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Timber,aspen.
	Undergrowth ,oak,serviceberry and sage brush,and aspen saplings.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	November 26,1908:At the noon hour the sky is overcast and solar observations are impossible.
	— ----------
	East on a random line bet.secs.23 and 26.
40.00	Set temp.1/4 sec.cor.
80.16	Intersect N.and S.line 5 lks.N.of the cor.of secs.23, 24,25 and 26.
	Thence I run
	N.89°58' W.on a true line bet.secs.23 and 26.
	Over mountainous land;through dense oak,serviceberry and mahogany brush.
	Ascend.
20.00	Top of spur 200 ft.above sec.cor.bears N.and S.
	Descend.
40.08	Set a yellow sandstone 20x8x5 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.
44.00	Creek 5 lks.wide 3 ins.deep,rocky bottom rapid current in bottom of East Fork of Braffits Canon,400 ft.below ridge,course N.5° W.
	Ascend.
80.16	The cor.of secs.22,23,26 and 27.
	This cor.is 600 ft.above canon.
	Land mountainous.
	Soil,gravelly;3rd.rate.
	No timber.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Undergrowth,oak,serviceberry and mahogany.
	Good grass for grazing.
	Mountainous or land or land covered with dense undergrowth,80.16 chs.
	November 26,1908.

	November 27,1908:At 8h48m a.m.,l.m.t., set off 37°45' N.on the lat.arc;21° 7' S.on the decl.arc;and determine a meridian with the solar ,at the cor.of secs.22,23,26 and 27.
	Thence I run
	North 0° 1' W.bet.secs.22 and 23.
	Over mountainous land;through dense undergrowth.
	Ascend.
14.50	Top of spur 300 ft.above sec.cor.bears E.and W.
	Descend.
24.50	Bottom of hollow 150 ft.below spur,course E.
	Ascend.
40.00	Top of spur 200 ft.above hollow,bears E.and W.
	Set a yellow sandstone 18x8x4 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.
	Descend.
60.00	Bottom of hollow 100 ft.below spur,course E.
	Ascend. through scattering timber.
76.50	Top of ridge 100 ft.above hollow,bears NE and SW.
	Descend.Leave timber.bears NE and SW.
80.00	Set a yellow sandstone 16x8x4 ins.,11 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.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
	Land ,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar and nut pine.
	Undergrowth,sage,oak,and service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,80.00 chs.
	S.89°58'E.,on a random line bet.secs.14 and 23.
40.00	Set temp.1/4 sec.cor.
80.24	Intersect N.and S.line ,30 lks.S.of the cor.of secs. 13,14,23,and 24.
	Thence I run
	S.89°49'W.,on a true line bet.secs.14 and 23 .
	Over mountainous land;through dense undergrowth .
	Asc.
8.55	Enter heavy timber,bears N.and S.
10.25	Top of ridge,200 ft.above sec.cor.bears N.and S.
	Desc.abruptly.
30.00	Leave heavy and enter scattering timber ,bears N.and S.
40.12	Point for 1/4sec.cor.falls on stationary sandstone boulder,3x2x1 ft.above ground,on which I cut a cross (x)at the exact point for 1/4 sec .cor.mkd.1/4 on N. face:from which
	A nut pine 12 ins.dia.,bears N.7°W.,14 lks. dist.,mkd.1/4 S.14 B T .
	No other trees within limits:raise a mound of stone, 2 ft.base,1 1/2 ft.high,N.of the cor.
,	This cor.is 400 ft.below top of ridge.
40.65	Desc.abruptly over ledges,bears N.and S.
44.00	Creek,2 lks.wide,2 ins.deep, in bottom of east fork of Braffits Canon,300 ft.below 1/4 sec.cor.,course

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
	N.
	Ascend abruptly over broken ledges.
48.00	Top of ledge 30 ft.high bears N.and S.
	Leave ledges.
70.00	Leave timber bears N.and S.
77.50	Top of ridge 600 ft.above canon bears NE and SW.
	Descend.
80.24	The cor.of secs.14,15,22 and 23.
	Land mountainous.
	Soil,gravelly and rocky;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,oak,serviceberry and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.24 chs.
	November 27,1908:At this cor.I set off 21° 9' S.on the decl.arc;and,at 11h 48m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°46' N .which is the proper lat.nearly.
	North 0° 1' W.bet.secs .14 and 15.
	Over mountainous land;through dense undergrowth.
	Descend.
31.85	Bottom of hollow 150 ft.below sec.cor.course NE.
	Enter heavy timber bears NE and SW.
	Ascend.
37.55	Leave heavy and enter scattering timber bears NE and SW.
38.75	Top of ridge 50 ft.above hollow,bears N.70° E.and S. 70° W.
	Descend.
40.00	Set a yellow sandstone 24x12x4 ins.,18 ins.in the

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	ground,for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A branch of a double nut pine 8 ins.dia.,bears N. 81 1/4° E.,161 lks.dist.,mkd.1/4 S 14 B T.
	No other trees within limits;raise a mound of stone 2 ft base,1 1/2 ft.high W.of cor.
	This cor.is 50 ft.below top of ridge.
60.65	Enter heavy timber bears NE and SW.
66.00	Begin abrupt descent bears E.and W.
80.00	Set a limestone 20x14x12 ins.,15 ins.in the ground, for cor.of secs.10,11,14 and 15,marked with 4 notches on S.and 2 notches on E.edges;from which
	A branch 6 ins.dia.of cedar 30 ins.dia.bears N.47° E.42 lks.dist.,mkd.T 35 S R 10 W S 11 B T.
	A nut pine 6 ins.dia.,bears S.11° E.58 lks.dist., mkd.T 35 S R 10 W S 14 B T.
	A nut pine,12 ins .dia.,bears S.11°W.,48 lks. dist.,mkd.T 35 S R 10 W S 15 B T.
	A nut pine,10 ins.dia.,bears N.16 1/2°W 61 lks. dist.,mkd.T 35 S R 10 W S 10 B T .
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate .
	Timber,cedar and nut pine.
	Undergrowth,sage,service berry,and oak brush.
	Good grass for grazing .
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

November 27,1908.

November 28,1908: At 8h48m a.m.,l.m.t.,I set off 37° 47' N.on the lat.arc;21° 18' S.on the decl.arc;and

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
	determine a meridian with the solar,at the cor.of secs. 10,11,14 and 15.
	Thence I run
	N.89° 49' E.on a random line bet.secs.11 and 14.
40.00	Set temp.1/4 sec.cor..
80.24	Intersect N.and S.line at the cor.of secs.11,12,13 and 14.
	Thence I run
	S.89° 49' W.on a true line bet.secs.11 and 14.
	Over mountainous land;through heavy cedar and nut pine timber.
	Descend.
6.00	Bottom of ravine 150 ft.below.sec.cor.,course NW..
	Ascend.
13.85	Top of ridge 100 ft.above ravine ,bears NW and SE.
	Descend.
24.30	Bottom of hollow 200 ft.below.ridge,course NW.
	Ascend.
26.40	Leave timber,bears NW and SE.
	Enter dense oak brush bears NW and SE.
30.00	Top of spur 100 ft.above hollow,bears N.and S.
	Descend.
37.55	Bottom of hollow 100 ft.below spur,course S.70° W.
	Enter heavy timber and leave undergrowth,bears N.70° E. and S.70° W.
	Ascend.
40.12	Set a sandstone 14x12x8 ins.,9 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;from which;
	A nut pine 9 ins.dia.,bears N.68 1/2 ° W.57 lks. dist.,mkd.1/4 S 11 B T.
	A nut pine 9 ins.dia.,bears S.71° W.59 lks.dist., mkd. 1/4 S 14 B T.
	This cor.is 100 ft.above hollow.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
48.00	Top of spur 50 ft.above 1/4 sec.cor.,bears N.and S.
	Descend.
58.60	Descend abruptly over perpendicular ledge bears NW and SE.
66.35	Creek 2 lks.wide 6 ins.deep,rapid current,in bottom of E.Fork of Braffits Canon 300 ft.below spur,course N.60° W.
	Ascend abruptly over ledges .
71.00	Top of steep ascent about 300 ft.above canon bears N. 60° W.and S.60° E.
	Leave ledges bears N.60° W.and S.60° E.
	Ascend gradually along NE slope of ridge.
80.24	The cor.of secs.10,11,14 and 15.
	Land,mountainous.
	Soil,gravelly and rocky;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,oak.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.24 chs.

Note.-Before running the line bet.secs.10 and 11,I complete the survey of sec.2 as follows:

From the cor.of secs.2,3,10 and 11,heretofore described I run

N.89° 49' E.on a random line bet.secs.2 and 11.

40.00	Set temp.1/4 sec.cor.
80.34	Intersect N.and S.line,at the cor.of secs.1 and 2, heretofore described.

Thence I run

S.89° 49' W.on a true line bet.secs.2 and 11.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Over mountainous land;through heavy timber and scattering undergrowth.
	Descend.
.03	Old wood road bears N.30° W.and S.30° E.
1.20	Wash 20 lks.wide,10 ft.deep,in bottom of ravine 50 ft. below sec.cor.,course N.30° W.
	Ascend abruptly.
3.65	Begin more gradual ascent,bears N.and S.
4.35	Wood road bears N.and S.
5.60	Top of spur 100 ft.above hollow,bears N.and S.
	Descend.
8.00	Bottom of hollow,75 ft.below spur,course N.
	Ascend.
10.00	Begin more gradual ascent,bears N. and S.
12.00	Wood road bears N.30° E.and S.30° W.
17.00	Top of spur 250 ft.above hollow,bears N.and S.
	Descend.
26.50	Bottom of hollow 200 ft.below ridge,course N.30° W.
	Ascend abruptly.
33.50	Begin more gradual ascent bears N.and S.
40.17	Set a volcanic stone 18x12x4 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A nut pine 4 ins.dia.,bears N.44 1/2 ° W.38 lks. dist.;mkd.1/4 S 2 B T.
	Raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor. No other bearing trees within limit.
53.00	Top of ridge 50 ft.above 1/4 sec.cor.,bears NE and SW.
	Descend.
65.00	Leave heavy and enter scattering timber,bears N.and S.
67.20	Foot of ridge bears NE and SW.
	Thence over nearly level land.
	Enter dense undergrowth bears NE and SW.
72.80	Wood road bears N.30° E.and S.30° W.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
80.34	The cor.of secs.2,3,10 and 11.
	Land mountainous and nearly level.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.34 chs.
	November 28,1908: At this cor.I set off 21° 20' S.on the decl.arc;and,at 11h 48m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 48' N.,which is the proper lat.nearly.

	Note.-For reasons already explained,
	I run
	North 0° 1' W.on a true line bet.secs.10 and 11.
	Over mountainous land;through heavy timber and dense undergrowth.
	Descend abruptly.
14.10	Creek 2 lks.wide 3 ins.deep,rapid current,clear water in bottom of E.Fork of Braffits Canon,400 ft.below sec.cor.,course NW.
	Ascend SW slope of volcanic ridge.
27.75	Begin more abrupt ascent,bears E .and W.
35.25	Ascend more gradually bears E.and W. Leave timber.
37.30	Top of spur 400 ft.above creek bears E.and W.
	Descend.
40.00	Set a volcanic stone 18x10x7 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.
	This cor.is 100 ft.below spur.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
41.00	Bottom of ravine 50 ft.below 1/4 sec.cor.,course W.
	Ascend.
51.75	Top of spur 150 ft.above ravine,bears N.70° W.and S. 70° E.
	Top of high knoll bears S.70° E. 5.00 chs.dist.
	Descend abruptly.
74.00	Foot of steep descent 400 ft.below spur bears NE and SW.
	Descend more gradually.
76.30	Wood road bears NE and SW.
	Foot of mountain bears NE and SW.
	Thence over nearly level land.
88.40	Intersect E.and W.line 1.91 chs.N.89° 49' E.of the cor. of secs.2,3,10 and 11,heretofore described.
	Set a volcanic stone 30x18x14 ins.,22 ins.in the ground,for closing cor.of secs.10 and 11,marked CC and 5 grooves on S. and 2 grooves on E.faces;from which
	A cedar 6 ins.dia.bears S.34 1/2 ° E.201 lks.dist., mkd. T 35 S R 10 W S 11 B T.
	A nut pine 10 ins.dia.,bears S.65 1/2° W.137 lks. dist.,mkd. T 35 S R 10 W S 10 B T.
	Note.-I destroy all marks on the old cor.of secs.2,3,10 and 11,which pertain to secs.10 and 11.
	Land, mountainous and nearly level.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,serviceberry,oak and sage.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,88.40 chs.
	November 28,1908.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	November 29,1908:At 8h 48m a.m.,l.m.t.,I set off 37°44' N.on the lat.arc; 21° 28' S.on the decl.arc; and determine a meridian with the solar at the cor.of secs.27,28, 33 and 34.
	Thence I run,for reasons already explained,
	South 0° 1' E.on a true line bet.33 and 34.
	Over mountainous land;through heavy aspen timber.
	Ascend.
3.00	Leave timber and enter dense undergrowth bears E.and W.
4.50	Top of spur 100 ft.above sec.cor.,bears E .and W.
	Ascend gradually along E.slope of ridge
32.75	Top of divide ridge bet.W.Fork of Braffits Canon and Fiddler's Canon,bears N.60° W.and S.60° E.
	Descend gradually.
35.00	Enter scattering aspen timber bears NW and SE.
39.00	Leave timber bears E.and W.
40.00	Set a quartzite stone 16x12x7 ins.,11 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on W.face;from which
	An aspen 16 ins.dia.,bears N.18 1/2° E.158 lks. dist.,mkd.1/4 S 34 B T.
	An aspen 16 ins.dia.,bears N.8° W.161 lks.dist., mkd.1/4 S 33 B T.
79.92	Intersect 7th.Standard Parallel South 3.57 chs.S.89° 45' E.of the Standard cor.of secs.33 and 34.,heretofore described.
	Set a trachyte stone 20x10x7 ins 15 ins.in the ground, for closing cor.of secs.33 and 34,marked CC on N.;with 3 grooves on E.and 3 grooves on W.face;from which
	An aspen 10 ins.dia.,bears N.64° E.52 lks.dist., mkd. T 35 S R 10 W.S 34 B T.
	No other trees within limits;raise a mound of stone 2 ft base 1.1/2 ft.high N.of cor.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Note.-I destroy all marks on the standard cor.of secs. 33 and 34 which pertain to secs.33 and 34.
	Land mountainous.
	Soil,sandy and gravelly loam;2nd.rate.
	Timber,aspen.
	Undergrowth,oak serviceberry and mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth,79.92 chs.
	— ——— ———
	North 0° 1' W.bet.secs.27 and 28.
	Over mountainous land;through heavy aspen timber.
	Ascend gradually.
4.50	Leave timber and enter dense oak,sage and serviceberry brush bears E.and W.
9.00	Old road bears N.60° W.and S.60° E.,on top of divide ridge 50 ft.above sec.cor.,bears N.30° E.and S.30° W.
	Descend gradually along W.slope of ridge.
40.00	Top of same divide ridge,bears N.20° W.and S.20° E.
	Set a trachyte stone 20x14x9 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 1 1/2 ft.high W.of cor.
	Continue descent along E.slope of ridge.
50.00	Top of same divide ridge,bears N.30° E.and S.30° W.
	Descend along W.slope of ridge.
55.00	Enter dense aspen timber bears E.and W.
76.50	Bottom of hollow 600 ft.below ridge,course N.65° W.
	Leave timber bears N.65° W.and S.65° E.
	Ascend.
80.00	Set a trachyte stone 20x14x5 ins.,15 ins.in the ground, for cor.of secs.21,22,27 and 28,marked with 2 notches

Chains.

on S.and 3 notches on E.edges;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

Land mountainous.

Soil,gravelly and sandy loam;2nd.rate.

Timber,aspen.

Undergrowth,oak,serviceberry and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

November 29,1908: At the noon hour the sky is overcast and solar observations are impossible.

East on a random line bet.secs.22 and 27.

40.00 Set temp.1/4 sec.cor.

79.96 Intersect N.and S.line 5 lks.S of the cor.of secs.22,23, 26 and 27.

Thence I run

S.89° 58' W.on a true line bet.secs. 22 and 27.

Over mountainous land;through dense serviceberry and oak brush.

Ascend steep E.slope of ridge.

16.75 Top of divide ridge bet.E.and W.Forks of Braffits Canon 500 ft.above sec.cor.'bears N.10° E.and S.10° W.

Descend.

35.00 Enter scattering timber bears N.and S.

39.98 Set a sandstone 20x11x6 ins.15 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;from which

A balsam 6 ins.dia.,bears S.1° E.52 lks.dist.,mkd. 1/4 S 27 B T.

No other trees within limits;raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.

41.60 Old road bears N. and S.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
43.75	Gulch 30 ft.deep,course N.
	Ascend.
45.00	Top of spur,30 ft.above gulch bears NW and SE.
	Descend.
52.00	Creek 3 lks.wide 4 ins.deep,rocky bottom,in bottom of W.Fork of Braffits Canon 300 ft.below 1/4 sec.cor.,800 ft.below divide ridge,course N.
	Ascend.
72.75	Top of divide ridge 400 ft.above canon,bears N.and S.
	Leave timber bears N.and S.
	Descend.
79.96	The cor.of secs.21,22,27 and 28.
	Land mountainous.
	Soil,gravelly ;3rd.rate.
	Timber,pine and aspen.
	Undergrowth,oak serviceberry and mahogany.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 79.96 chs.
	November 29,1908.

November 30,1908:At $8^h 49^m$ a.m.,l.m.t.,I set off 37°45' N.on the lat.arc121° 38' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.21,22,27 and 28.

Thence I run

North 0° 1' W.bet.secs.21 and 22.

Over mountainous land;through dense undergrowth.

Ascend.

6.00	Top of spur 30 ft.above sec.cor.,bears E.and W.
	Descend.
12.00	Bottom of swale 50 ft.below spur,course W.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Ascend.
30.00	Top of divide ridge 200 ft.above swale,bears N.20° W. and S.20° E.
	Descend.
38.00	Head of swale 200 ft.below ridge,course NE.
	Ascend.
40.00	Set a trachyte stone 18x12x6 ins.,12 ins.in the ground, for 1/4 sec.cor.marked 1/4 on W.face;from which
	A lone nut pine 12 ins.dia.,bears N.18° W.129 lks. dist.mkd.1/4 S 21 B T.
	No other trees within limits;raise a mound of stone 2 ft base 1 1/2 ft.high W.of cor.
45.00	Same divide ridge,bears N.20° E.and S.20° W.
	Descend.
53.00	Head of swale 200 ft.below ridge ,course W.
	Ascend.
63.50	Top of spur 100 ft.above swale bears E.and W.
	Descend gradually.
77.00	Leave undergrowth and enter heavy cedar and nut pine timber bears E.and W.
80.00	Set a trachyte stone 20x6x6 ins.,15 ins.in the ground, for cor.of secs.15,16,21 and 22,marked 35 S on NE, and 10 W.on SE faces;with 3 notches on S.and 3 notches on E.edges;from which
	A nut pine 12 ins.dia.,bears N.4 1/2° E.32 lks. dist.mkd.T 35 S R 10 W S 15 B T.
	A nut pine 10 ins.dia.,bears S.65° E.40 lks.dist. mkd.T 35 S R 10 W S 22 B T.
	A nut pine 5 ins.dia.,bears S.[illegible]° W.[illegible] lks.dist., mkd. T 35 S R 10 W S 21 B T.
	A nut pine 11 ins.dia.,bears N.[illegible]° W.[illegible] lks.dist., mkd. T 35 S R 10 W S 16 B T.
	Land mountainous.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Soil,gravelly;3rd.rate.
	Timber,cedar and nut pine.
	Undergrowth,oak serviceberry and mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth,80.00 chs.
	——— ———
	N.89°58' E.on a random line bet.secs.15 and 22.
40.00	Set temp.1/4 sec.cor.
79.84	Intersect N.and S.line 19 lks.N.of the cor.of secs.14,15 22 and 23.
	Thence I run
	N.89° 54' W.on a true line bet.secs.15 and 22.
	Over mountainous land;through heavy cedar and nut pine timber.
	Descend.
5.00	Head of hollow 15 ft.below sec.cor.,course N.
	Ascend.
11.85	Top of divide ridge bet.E.and W.Forks of Braffits Canon 25 ft.above hollow bears N.10° W.and S.10° E.
	Descend.
37.75	Creek 3 lks.wide 2 ins.deep,in Bottom of W.Fork of Braffits Canon,300 ft.below ridge ,course N.5° E.
	Ascend. Leave heavy and enter scattering timber bearsN&S
38.25	Trail bears N.and S.
39.92	Set a granite stone 16x10x5 ins.11 ins.in the ground, for 1/4 sec.cor.,mkd.1/4 on N.face;from which;
	A nut pine 8 ins.dia.,bears S 1 1/2 o E.59 lks.dist mkd. 1/4 s 22 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.

Subdivision of T.35 S.,R.10 W.-Continued.

chains.

57.75 Old road bears N.15° E.and S.15° E.

73.00 Top of divide ridge 400 ft.above canon bears N.and S.

Descend.through heavy cedar and nut pine timber.

79.84 The cor.of secs.15,16,21 and 22,150 ft.below ridge.

Land mountainous.

Soil,gravelly ;3rd.rate.

Timber,cedar and nut pine.

Good grass for grazing.

Mountainous or heavily timbered land,79.84 chs.

November 30,1908:At this cor.I set off 21°40' S.on the decl.arc;and,at 11h49m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 46' N.,which is the proper lat.,nearly.

North 0° 1' W.bet.secs.15 and 16.

Over mountainous land;through heavy cedar and nut pine timber and scattering undergrowth.

Descend gradually along W.slope of ridge.

40.00. Set a volcanic stone 15x10x5 ins.10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which

A nut pine 5 ins.dia.,bears S.63 1/4° E.77 lks. dist.,mkd.1/4 S 15 B T.

A nut pine 8 ins.dia.,bears S.81 1/2° W.,30 lks. dist.mkd.1/4 S 16 B T.

70.00 Begin more abrupt descent bears E.and W.

Leave timber bears E.and W.

80.00 Set a volcanic stone 16x8x4 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 1 1/2 ft.high W.of cor.

Land mountainous.

Soil,gravelly;3rd.rate.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Timber,nut pine and cedar.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	November 30,1908.

	December 1,1908:At 8h 49m a.m.,l.m.t.,I set off 37°47' N.on the lat.arc;21° 47' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.9,10,15 and 16.
	Thence I run
	S.89° 54' E.on a random line bet.secs.10 and 15.
40.00	Set temp.1/4 sec.cor.
79.70	Intersect N.and S.line 14 lks.S of the cor.of secs. 10,11,14 and 15;
	Thence I run
	West on a true line bet.secs.10 and 15.
	Over mountainous land;through heavy cedar and nut pine timber.
	Ascend.
12.50	Top of divide ridge bet.E.and W.Forks of Braffits Canon 150 ft.above sec.cor.,bears N.and S.
	Descend.
30.00	Creek 3 lks.wide 2 ins.deep,in bottom of W.Fork of Braffits Canon 300 ft.below ridge,course N.5° E.
	Ascend.
39.85	Set a granite stone 14x10x6 ins.,9 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A cedar 10 ins.dia.,bears N.85 1/2 ° E.99 lks.dist. mkd. 1/4 S 10 B T.
	A cedar 6 ins.dia.,bears S.31° W.98 lks.dist., mkd. 1/4 S 15 B T.

Subdivision of T.35 S.,R.10 W.-continued.

Chains.	
45.85	Road on top of ridge,bears N.15° E.and S.15° W.
	Descend.
56.00	Begin abrupt descent bears N.and S.
79.70	The cor.of secs.9,10,15 and 16.
	Land mountainous.
	Soil,gravelly;3rd.rate.
	Timber,cedar and nut pine.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.70 chs.
	Note.-Before running the line bet.secs.9 and 10,I complete the survey of sec.3.as follows:
	Begin at the cor.of secs.3,4,9 and 10 heretofore described.
	Thence I run East on a random line bet.secs.3 and 10.
40.00	Set temp.1/4 sec.cor.
80.80	Intersect N.and S.line 40 lks.N.of the cor.of secs. 2 and 3,heretofore described.
	Thence I run N.89°43' W.on a true line bet.secs.3 and 10.
	Over rolling bench land;through scattering timber and dense undergrowth.
1.25	Wash 35 lks.wide 10 ft.deep;small stream 3 lks.wide 4 ins.deep in bottom,course N.30° W.
	This creek is from Braffits Canon.
2.00	Wash 25 lks.wide 10 ft.deep,course N.30° W.
17.25	Wood road bears N.and S.
22.50	Wash 70 lks.wide 6 ft.deep,course N.30° W.
31.50	Wood road bears NW and SE.
37.80	Road at foot of ridge bears N.30° W.and S.30° E.
	Ascend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
40.40	Top of spur 50 ft.above foot of ridge,bears N.20°E. and S.20° W.
	Set a granite stone 14x10x10 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.
	Descend.
43.20	Bottom of hollow 50 ft.below spur,course N.
	Ascend.
48.00	Enter heavy timber bears N.and S.
	Leave dense and enter scattering undergrowth, bears N.and S.
58.20	Top of spur 100 ft.above hollow bears N.30° W.,and S.30° E.
	Descend.
68.10	Bottom of ravine 150 ft.below ridge,course NW.
	Ascend.
70.00	Top of spur,75 ft.above ravine,bears NW and SE.
	Descend.
73.50	Leave heavy and enter scattering timber bears N.and S.
75.50	Foot of ridge 150 ft.below top bears NE and SW.
	Enter dense undergrowth,bears NE and SW.
	Descend gradually.
80.80	The cor.of secs.3,4,9 and 10.
	This cor.is 50 ft.below foot of ridge.
	Land mountainous and rolling.
	Soil,gravelly and stony;3rd.and 4th.rate.

Chains.	
	Timber,cedar and nut pine.
	Undergrowth,sage and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.80 chs.
	December 1,1908:At the noon hour the sky is overcast and solar observations are impossible.

	For reasons already explained,
	I run
	North 0° 1' W.on a true line bet.secs.9 and 10.
	Over mountainous land.
	Through heavy timber and dense undergrowth.
	Ascend.
40.00	Set a volcanic stone 18xEx4 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.
	This cor.is 100 ft.above the sec.cor.
51.90	Top of ridge 75 ft.above the 1/4 sec.cor.,bears E. and W.
	Descend.
76.80	Bottom of hollow,300 ft.below ridge,course N.75° W.
	Ascend.
81.00	Top of spur 100 ft.above hollow,bears N.75° W.and S.75° E.
	Descend.
88.25	Foot of ridge 100 ft.below spur,bears NE and SW.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Descend gradually.

89.00 Intersect E.and W.line 3.00 chs.S.89°43' E.of the cor. of secs.3 ,4 ,9 and 10,heretofore described.

Set a sandstone 20x12x4 ins.,15 ins.in the ground, for closing cor.of secs.9 and 10,marked with CC and 5 grooves on S. and 3 grooves on E.faces; from which

A cedar 5 ins.dia.,bears S.53 1/2° E.113 lks. dist.,mkd. T 35 S R 10 W S 10 B T.

A nut pine 6 ins.dia.,bears S.36 3/4° W.137 lks., dist.,mkd. T 35 S R 10 W S 9 B T.

This cor.is 25 ft.below foot of ridge.

Note.-I destroy all marks on the cor.of secs.3,4,9 and 10,which pertain to secs.9 and 10.

Land mountainous.

Soil,gravelly;3rd.rate.

Timber,cedar and nut pine.

Undergrowth,sage,oak and serviceberry brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,89.00 chs.

December 1,1908.

December 2,1908:At 8h 49m a.m.,l.m.t.,I set off 37°44' N.on the lat.arc;21° 56' S.on the decl.arc;and determine a meridian with the solar at the cor.of

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	secs.28,29,32 and 33.
	Thence I run,for reasons already explained, South 0° 2' E.on a true line,bet.secs.32 and 33.
	Over mountainous land.
	Through heavy cedar and nut pine timber and scattering sage brush.
	Ascend.
10.00	Top of spur 150 ft.above the sec .cor.,bears E.and W.
	Descend.
11.75	Bottom of swale 100 ft.below spur,course SW.
	Ascend.
13.50	Top of ridge ,50 ft.above swale,bears N.30 ° E.and S.30° W.
	Descend.
30.00	Bottom of hollow,250 ft.below ridge,course S.30° W.
	Ascend.
35.50	Top of spur 200 ft.above hollow,bears E.and W.
	Descend.
38.75	Bottom of hollow 100 ft.below spur,course S.80° W.
	Ascend.
40.00	Point for cor.falls on stationary sandstone boulder 2x2x 1 1/2 ft.above ground;on which I cut a cross(X) at the exact point for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A nut pine 6 ins.dia.,bears N.18° E.60 lks. dist.,mkd.1/4 S 33 B T.
	A cedar 6 ins.dia.,bears N.26° W.60 lks.dist., mkd. 1/4 S 32 B T.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
44.00	Top of spur 200 ft.above hollow ,bears E.and W.
	Descend.
74.50	Bottom of hollow 350 ft.below spur,course S.60° W.
	Ascend.
79.65	Intersect 7th.Standard Parallel South,5.05 chs.S.89°47' E.from the standard cor.of secs.32 and 33,heretofore described.
	Set a yellow sandstone 14x12x7 ins.,9 ins.in the ground for closing cor.of secs.32 and 33,marked CC on N.,with 4 grooves on E.and 2 grooves on W.faces;from which
	A nut pine 8 ins.dia.,bears N.30 ° E.26 lks.dist., mkd. T 35 S R 10 W S 33 B T.
	A cedar 14 ins.dia.,bears N.30 1/2 ° W.31 lks.dist. mkd. T 35 S R 10 W S 32 B T.
	Note.-I destroy all marks on the standard cor.of secs. 32 and 33 which pertain to secs.32 and 33.
	Land mountainous.
	Soil,clay and gravelly loam and rocky;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,79.65 chs.
	North 0° 2' W.bet.secs.28 and 29.
	Over mountainous land;through heavy cedar and nut pine timber.
	Descend.
1.25	Bottom of hollow 25 ft.below sec.cor.,course S.30° W.
	Ascend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
8.00	Top of divide ridge 300 ft.above hollow bears N.80° E. and S.80° W.
	Leave timber and enter dense undergrowth,bears N.80° E. and S.80° W.
	Descend.
29.00	Old road bears NW and SE.
40.00	Set a trachyte stone 18x12x6 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.
48.00	Top of ridge 200 ft.below divide ridge,bears N.W and S. 20° W.
	Descend.
59.00	Bottom of hollow 200 ft.below ridge,course N.30° W.
	Ascend.
63.50	Top of spur 100 ft.above hollow bears E.and W.
	Descend.
69.00	Bottom of hollow 150 ft.below spur,course N.30° E.
	Continue descent along W.side of hollow.
70.00	Enter scattering timber bears E.and W.
80.00	Set a trachyte stone 16x10x6 ins.,11 ins.in the ground, for cor.of secs.20,21,28 and 29,marked with 2 notches on S.and 4 notches on E.edges from which;
	A nut pine 6 ins.dia.,bears N.40 3/4 ° E.69 lks. dist.mkd. T 35 S R 10 W S 21 B T.
	A nut pine 6 ins.dia.,bears S.36 ° W.106 lks. dist.,mkd.t 35 S R 10 W S 29 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Land mountainous.
	Soilgravelly loam and stony;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainoys or heavily timbered land,or land covered

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
	with dense undergrowth,80.00 chs.
	December 2,1908:At this cor.I set off 21°58' S.on the decl.arc;and,at 11h49m a.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°45' N.,which is the proper lat.nearly .
	East on a random line bet.secs.21 and 28.
40.00	Set temp.1/4 sec.cor.
80.02	Intersect N.and S.line 7 lks.S.of the cor.of secs.21,22, 27 and 28.
	Thence I run
	S.89°57' W.on a true line bet.secs.21 and 28.
	Over mountainous land;through dense oak and serviceberry brush.
	Descend.
6.50	Bottom of hollow 150 ft.below sec.cor.,course N.30° W.
	Ascend.
11.00	Top of spur 100 ft.above hollow,bears N.and S.
	Descend.
20.50	Bottom of hollow 100 ft .below spur course N?
	Ascend.
30.00	Trail on top of ridge 100 ft.above hollow,bears N.and S.
	Descend.
39.00	Enter scattering timber bears N.and S.
40.01	Set a trachyte stone 16x12x10 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A nut pine 6 ins.dia.,bears N.58° E.72 lks.dist., mkd. 1/4 S 21 B T.
	A nut pine 14 ins.dia.,bears S.1° E.25 lks.dist., mks. 1/4 S 28 B T.
69.50	Bottom of hollow 300 ft.below spur ,course N.30° W.
	Ascend abruptly.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
71.00	Top of spur 150 ft.above hollow bears N.and S.
	Enter heavy timber bears N.and S.
	Descend.
75.00	Bottom of hollow 100 ft.below spur ,course N.10° E.
	Leave heavy and enter scattering timber,bears N.10° E. and S.10° W.
	Ascend.
78.00	Top of spur 75 ft.above hollow bears N.and S.
	Descend.
79.00	Bottom of hollow 100 ft.below spur,course N.
	Ascend.
80.02	The cor.of secs.20,21,28 and 29.
	Land mountainous.
	Soil,clay loam and gravelly;2nd.and 3rd.rate.
	Timber,cedar and nut pine.
	Undergrowth,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.02 chs.
	December 2,1908.

December 3,1908: At 8h 50m a.m.,l.m.t.,I set off 37°45' N.on the lat.arc;22° 5' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.20,21,28 and 29.

Thence I run

North 0° 2' W.bet.secs.20 and 21.

Over mountainous land;through scattering timber and dense undergrowth.

Descend gradually along W.side of hollow.

10.00	Enter heavy timber bears E.and W.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
30.00	Begin more abrupt descent over ledges bears N.10° W.and S.10° E.
40.00	Set a trachyte stone 20x14x12 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which A nut pine 12 ins.dia.,bears S.1° E.11 lks.dist., mkd. 1/4 S 21 B T. A cedar 10 ins.dia.,bears N.40° W.5 lks.dist., mkd. 1/4 S 20 B T.
41.00	Bottom of canon 500 ft.below sec.cor.,course N.10° W. Ascend over ledges.
49.50	Top of rocky spur 100 ft.above canon bears NW and SE. Descend over ledges.
57.50	Bottom of canon 250 ft.below spur,course NE. Ascend over ledges.
62.75	Top of rocky spur 100 ft.above canon bears E.and W. Descend abruptly over ledges.
66.00	Bottom of canon 200 ft.below spur,course NW. Ascend over ledges.
80.00	Set a trachyte stone 22x12x4 ins.,16 ins.in the ground, for cor.of secs.16,17,20 and 21,marked with 3 notches on S.and 4 notches on E.edges;from which A cedar 10 ins.dia.,bears N.60° E.13 lks .dist., mkd. T 35 S R 10 W S 16 B T. A nut pine 10 ins.dia.,bears S.38° E.22 lks.dist., mkd. T 35 S R 10 W S 21 B T. No other trees within limits;raise a mound of stone 2 ft ft.base 1 1/2 ft.high W.of cor. This cor.is 400 ft.above canon. Land mountainous. Soil,gravelly and rocky;3rd.and 4th.rate. Timber,cedar and nut pine. Undergrowth,sage,oak and serviceberry brush. Good grass for grazing.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	N.89° 57' E.on a random line bet.secs.16 and 21.
40.00	set temp.1/4 sec.cor.
80.10	Interesect N.and S.line 12 lks.N.of the cor.of secs.15, 16,21 and 22.
	Thence I run
	N.89°58' W.on a true line bet.secs.16 and 21.
	Over mountainous land;through heavy cedar and nut pine timber and scattering sage brush.
	Descend abruptly.
10.00	Bottom of hollow 250 ft.below sec.cor.,course N.30° W.
	Ascend.
15.00	Top of spur 100 ft.above hollow bears NW and SE.
	Descend.
18.75	Bottom of hollow 200 ft.below spur,course N.10° W.
	Ascend.
24.00	Top of spur 200 ft.above hollow ,bears N.and S.
	Descend.
36.00	Bottom of hollow ,300 ft.below spur,course N.20° E.
	Ascend.
40.05	Set a trachyte stone 16x11x7 ins.,11 ins.in the ground, for 1/4 sec.cor.mkd.1/4 on N.face;from which
	A nut pine 6 ins.dia.,bears N.5° E.152 lks.dist.m mkd. 1/4 S 16 B T.
	A cedar 10 ins.dia.,bears S.67 1/2 ° W.,92 lks. dist.,mkd. 1/4 S 21 B T.
41.00	Top of spur 50 ft.above hollow bears N.and S.
	Descend.
46.25	Bottom of hollow 150 ft.below spur,course NW.
	Ascend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
59.00	Top of ridge 200 ft.above hollow bears NW and SE.
	Descend.
63.00	Trail bears NW and SE.
64.50	Same trail bears NE and SW.
74.50	Same trail bears NW and SE.,in bottom of hollow 150 ft. below ridge,course NW.
	Ascend.
79.10	Top of rocky ridge 100 ft.above hollow,bears N.20° W.and S.20° E.
	Descend abruptly over ledges.
80.10	The cor.of secs.16,17,20 and 21.
	Land mountainous.
	Soil,gravelly loam and rocky;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.10 chs.
	December 31,1908:At the noon hour the sky is overcast and solar observations are impossible.

Note.-Before running the line bet.secs.16 and 17 I proceed to complete the survey of sec.9.

Begin at the cor.of secs.8,9,16 and 17,heretofore described.

Note.-knowing from closings already made that the line bet.Secs.9 and 16 will not close within limits;

I run

S.89° 58' E.on a true line bet.secs.9 and 16.

Over mountainous land;through dense sage brush.

Ascend.

29.25 Top of ridge 300 ft.above sec.cor.bears N.15° W.and S. 15° E.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	Enter scattering timber bears N.15° W.and S.15° E.
	Descend.
40.00	Set a granite stone 14x10x10 ins.9 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which .
	A nut pine 7 ins.dia.,bears N.1 1/2° E.105 lks. dist.,mkd. 1/4 S.9 B T.
	A cedar 10 ins.dia.,bears S.72 1/2° E.44 lks.dist. mkd. 1/4 S 16 B T.
45.00	Center of old lake basin 5.00 chs.across,in hollow, course N.20° W. . This basin fills to a depth of about 25 ft.in early spring with waters from melting snow, and dries up in the summer. .
	Ascend.
60.00	Enter heavy cedar and nut pine timber bears N. and S.
75.00	Leave heavy and enter scattering timber bears N.and S.
84.00	Intersect N.and S.line 9.38 chs.N.0° 1' W.of the cor.of secs.9,10,15 and 16.
	Set a volcanic stone 15x10x4 ins.,10 ins.in the ground for closing cor.of secs.9 and 16,marked CC on W.,with 4 grooves on S.and 3 grooves on E.faces;from which
	A cedar 8 ins.dia.,bears N.35° W.152 lks.dist., mkd. T 35 S R 10 W S 9 B T.
	A cedar 5 ins.dia.,bears S. 65° W.87 lks.dist., mkd. T 35 S R 10 W S 16 B T.
	Note.-I destroy all marks on the cor.of secs.9,10,15 and 16,which pertain to secs.9 and 16.
	Land mountainous.
	Soil,gravelly;3rd.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,84.00 chs.

Chains.	
	For reasons already explained,
	I run
	North 0° 2' W.on a true line bet.secs.16 and 17.
	Over mountainous land;through scattering timber and dense undergrowth.
	Ascend abruptly.
2.00	Top of ridge 75 ft.above cor.,bears N.10° W.and S.10°E.
	Descend.
27.50	Old road bears NW and SE.
40.00	Set a volcanic stone 20x10x4 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A cedar 8 ins.dia.,bears N.65 1/2°W.34 lks.dist., mkd.1/4 S 17 B T.
	A nut pine 8 ins.dia.,bears S.46 3/4° E.20 lks. dist.mkd.1/4 S 16 B T.
61.00	Old road bears NW and SE,in bottom of hollow,800 ft. below sec.cor.,course NW.
	Ascend gradually.
82.00	Wash 20 lks.wide,3 ft.deep,course W.
84.00	Top of spur 100 ft.above hollow,bears N.80° W.and S. 80° E.
	Descend.
89.10	Intersect E.and W.line 3.90 chs.,S.89° 58' E.from the cor.of secs.8,9,16 and 17,heretofore described.
	Set a granite stone 18x12x5 ins.,12 ins.in the ground, for closing cor.of secs.16 and 17,marked with CC and 4 grooves on S.and 4 grooves on E.faces;from which
	A cedar 7 ins.dia.,bears S.58 1/2° E.128 lks.dist. mkd. T 35 S R 10 W S 16 B T.
	A cedar 5 ins.dia.,bears S.52 1/4° W.112 lks.dist. mkd. T 35 S R 10 W S 17 B T.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Note.-I destroy all marks on the cor.of secs.8,9,16 and 17,which pertain to secs.16 and 17.

Land mountainous.

Soil,gravelly;3rd.rate.

Timber,cedar and nut pine.

Undergrowth,sage and oak brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth, 89.10 chs.

December 3,1908.

December 4,1908: At 8h 50m a.m.,l.m.t.,I set off 37°44' N.on th e lat.arc; 22° 13' S.on the decl.arc;and determine a meridian with the solar at the cor.of secs.29, 30,31 and 32.

Thence I run,for reasons already explained, South 0° 3' E.on a true line bet.secs.31 and 32.

Over mountainous land;through heavy cedar and nut pine timber and scattering sage brush.

Ascend gradually along E.slope of ridge.

40.00 Set a sandstone 24x14x4 ins.,18 ins.in.the ground,for 1/4 sec.cor.,marked 1/4 on W.face ;from which

A nut pine 18 ins.dia.,bears N.70° E.12 lks.dist. mkd. 1/4 S 32 B T.

A nut pine 18 ins.dia.,bears N.62 ° W.4 lks.dist. mkd. 1/4 S 31 B T.

This cor.is 200 ft.above sec.cor.

41.00 Top of divide ridge 20 ft.above 1/4 sec.cor.,bears E. and W.

Descend abruptly over a series of sandstone ledges and boulders.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
79.40	Intersect 7th.Standard Parallel South,5.90 chs.S.89°48' E.from the standard cor.of secs.31 and 32,heretofore described.
	Set a sandstone 24x12x9 ins.,18 ins.in the ground,for closing cor.of secs.31 and 32,marked CC on N.;with 5 grooves on E.and 1 grooves on W.faces;from which
	A nut pine 18 ins.dia.,bears N.19° E.17 lks.dist., mkd. T 35 S R 10 W S 32 B T.
	A nut pine 14 ins.dia.,bears N.36 3/4 ° W.69 lks. dist.,mkd. T 35 S R 10 W S 31 B T.
	Note.-I destroy all marks on the standard cor.of secs.31 and 32 ,which pertain to secs.31 and 32.
	Land mountainous.
	Soil,sandy loam and rocky;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,79.40 chs.
	North 0° 3' W.bet.Secs.29 and 30.
	Over mountainous land;through heavy cedar and nut pine timber and scattering sage brush.
	Descend.
3.00	Begin abrupt descent over ledges,bears E.and W.
19.00	Bottom of hollow 600 ft.below sec.cor.,course N.60° W.
	Ascend over ledges.
25.50	Top of rocky spur 150 ft.above hollow bears NW and SE.
	Leave ledges bears NW and SE.
	Descend.
30.50	Bottom of rocky gulch 250 ft.below spur,course NW.
	Ascend.
40.00	Top of rocky ridge 200 ft.above gulch,bears E.and W.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Set a yellow sandstone 14x12x12 ins.9 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which

A nut pine 14 ins.dia.,bears N.10° E.14 lks.dist., mkd.1/4 S 29 B T.

A nut pine 7 ins.dia.bears N.60° W.14 lks.dist., mkd. 1/4 S 30 B T.

Descend.

46.25 Bottom of rocky ravine 200 ft.Below ridge,course W.

Ascend.

60.00 Top of ridge 250 ft.above ravine bears N.60° W.and S. 60° E.

Descend.

73.75 Bottom of rocky gulch 400 ft. below ridge,course N.30°W.

Ascend over sandstone ledges.

80.00 Set a limestone 18x12x8 ins.,12 ins.in the ground,for cor.of secs.19,20,29 and 30,marked with 2 notches on S. and 5 notches on E.edges;from which

A nut pine 6 ins.dia.,bears N.21 1/2 ° E.59 lks. dist.,mkd. T 35 S R 10 W S 20 B T.

A nut pine 6 ins.dia.,bears S.74 1/2 ° E.34 lks. dist.,mkd. T 35 S R 10 W S 29 B T.

A nut pine 10 ins.dia.,bears S.60° W.38 lks.dist., mkd. T 35 S R 10 W S 30 B T.

A nut pine 8 ins.dia.,bears N.27 ° W.62 lks.dist., mkd. T 35 S R 10 W S 19 B T.

Land mountainous.

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

Timber,cedar and nut pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

December 4,1908 : At this cor.I set off 22°14' S.on the decl.arc;and,at 11h 50m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 45' N.,which is

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
	the proper lat.nearly.
	East on a random line bet.secs.20 and 29.
40.00	Set temp.1/4 sec.cor.
79.80	Intersect N.and S.line 19 lks.S.of the cor.of secs.20, 21,28 and 29.
	Thence I run
	S.89°52' W.on a true line bet.secs.20 and 29.
	Over mountainous land;through scattering timber and dense undergrowth.
	Ascend.
11.00	Top of ridge 100 ft.above sec.cor.bears N.and S.
	Descend.
17.00	Bottom of swale 200 ft.below ridge,course N.
	Ascend.
24.80	Top of ridge 200 ft.above swale,bears N.10° E.and S. 10° W.
	Descend.
35.00	Bottom of hollow 250 ft.below ridge,course N.10° W.
	Ascend.
37.00	Old road bears N.10° W.and S.10° E.
39.90	Set a trachyte stone 16x12x8 ins.,11 ins.in the ground, for 1/4 sec.cor.,mkd.1/4 on N.face;from which
	A nut pine 5 ins.dia.,bears N.30° W.22 lks.dist., mkd. 1/4 S 20 B T.
	A nut pine 7 ins.dia.,bears S.60° W.65 lks.dist., mkd. 1/4 S 29 B T.
40.75	Top of ridge 250 ft.above hollow,bears N.and S.
	Enter heavy cedar and nut pine timber bears N.and S.
	Descend abruptly.
70.00	Bottom of hollow 600 ft.below ridge,course N.70° W.
	Ascend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
74.50	Top of spur 50 ft.above hollow bears N.80° W.and S.80°E.
	Descend.
79.80	The cor.of secs.19,20,29 and 30.
	Land mountainous.
	Soil,gravelly and rocky;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,/79.80 chs.
	West on a random line bet.secs.19 and 30.
45.95	Fall 7.09 chs.S.of the 1/4 sec.cor.,bet.secs.19 and 30, which is a granite stone 10x8x6 ins.,above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
	The falling is out of limits,therefore I begin at this cor.,and run
	East on a true line bet.the East halves of secs.19 and 30.
	Over mountainous land;through dense sage brush.
	Ascend gradually.
32.00	Top of spur 200 ft.above 1/4 sec.cor.,bears NW and SE.
	Descend.
37.00	Bottom of rocky gulch,100 ft.below spur,course NW.
	Enter heavy cedar and nut pine timber bears NW and SE.
	Ascend abruptly.
45.95	Intersect N.and S.line 7.09 chs.N.0° 3' W.from the cor. of secs.19,20,29 and 30.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.

Set a sandstone 22x9x7 ins.,16 ins.in the ground,for closing cor.of secs.19 and 30,marked CC on W.;with 2 grooves on S.and 5 grooves on E.faces;from which

A nut pine 8 ins.dia.,bears S.25° W.78 lks.dist., mkd. T 35 S R 10 W S 30 B T.

A nut pine 6 ins.dia.,bears N.54° W.36 lks.dist., mkd.t 35 S R 10 W S 19 B T.

Note.-I destroy all marks on the cor.of secs.19,20,29, and 30,which pertain to secs.19 and 30.

Land mountainous.

Soil,clay and gravelly loam and rocky;2nd.and 4th.rate.

Timber,cedar and nut pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,45.95 chs.

December 4,1908.

December 5,1908:At 8h51m a.m.,l.m.t.,I set off 37°46' N on the lat.arc; 22° 21' S.on the decl.arc;and determine a meridian with the solar,at the 1/4 sec.cor.bet.secs. 17 and 18,heretofore described.

Note.-Before running the line bet.secs.19 and 20,I complete the survey.of secs.17 and 18.

Thence I run

South bet.secs.17 and 18.

Over mountainous land;through dense sage brush and scattering timber.

Ascend.

1.50 Wash 20 lks.wide 5 ft.deep,course W.

9.50 Wash 20 lks.wide. 4 ft.deep,course N.80° W.

22.50 Begin steep ascent of ridge bears E.and W.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
24.00	Enter heavy timber bears E.and W.
37.00	Top of spur 250 ft.above 1/4 sec.cor.,bears NW and SE.
	Descend.
37.25	Wood road bears NW and SE.
40.00	Set a trachyte stone 18x9x6 ins.,12 ins.in the ground, for cor.of secs.17 and 18,marked with 3 notches on S. and 5 notches on E.edges;from which;
	A cedar 8 ins.dia.,bears N.62 1/2 ° E.13 lks.distt mkd. T 35 S R 10 W S 17 B T.
	A cedar 8 ins.dia.,bears N.47 ° W.37 lks.dist., mkd. T 35 S R 10 W S 18 B T.
	Note.-I mark this cor.for secs.17 and 18 only,knowing from the length of the line bet.secs.19 and 30 that the line bet.secs.19 and 20 will not close on this cor. within limits.
	Land mountainous.
	Soil,gravelly loam and stony;2nd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Mountainous,or heavily timbered land,or land covered with dense undergrowth,40.00 chs.

	Note.-Knowing from the length of the line bet.secs.16 and 17.that the line bet.secs.17 and 20,wil not close within limits.
	I run
	N.89° 52' E.on a true line bet.secs.17 and 20.
	Over mountainous land;through heavy cedar and nut pine timber and scattering sage brush.
	Ascend.
2.25	Top of spur 25 ft.above sec.cor.,bears N.40° W.and S.40° E.
	Descend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
4.00	Bottom of swale 20 ft.below spur,course NW.
	Ascend.
7.00	Top of spur,30 ft.above swale bears N.30° W.and S.30°E.
	Descend.
12.25	Bottom of hollow,100 ft.below spur,course N.10° W.
	Ascend.
17.00	Top of ridge 100 ft.above hollow,bears NW and SE.
	Descend.
21.25	Bottom of hollow 50 ft.below ridge,course N.
	Ascend.
25.60	Top of spur 150 ft.above hollow,bears N.and S.
	Descend.
30.80	Bottom of hollow 75 ft.below spur,course N.5 ° E.
	Ascend.
35.10	Top of ridge 200 ft.above hollow bears N.and S.
	Descend.
40.00	Set a trachyte 18x12x8 ins.,12 ins.in the ground,for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A nut pine 10 ins.dia.,bears N.55 1/2° W.153 lks.dist. mkd.1/4 S 17 B T.
	A nut pine 12 ins.dia.,bears S.12 1/2° W.110 lks. dist.,Mkd. 1/4 S 20 B T.
40.75	Bottom of swale 50 ft.below spur,course N.
	Ascend.
44.25	Top of spur 50 ft.above swale bears N.and S.
	Descend.
47.50	Bottom of swale 60 ft.below spur,course N.
	Ascend.
62.25	Top of spur 100 ft.above swale,bears N.10° W.and S.10° E.
	Descend abruptly.
72.00	Bottom of rocky canon 200 ft.below spur,course N.30°W.
	Ascend abruptly.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains.	
82.50	Top of ridge,700 ft.above canon,bears N.30° W.and S. 30° E.
	Descend.
84.70	Intersect N.and S.line 8.85 chs.,N.00.2' W.of the cor. of secs.16,17,20 and 21.
	Set a trachyte stone 20x14x6 ins.,15 ins.in the ground for closing cor.of secs.17 and 20,marked CC on W.;with 3 grooves on S.and 4 grooves on E.faces;from which
	A nut pine 6 ins.dia.,bears S.51° W.20 lks.dist., mkd. T 35 S R 10 W. S 20 B T.
	A cedar 12 ins.dia.,bears N.68° W.72 lks.dist., mkd. T 35 S R 10 W S 17 B T.
	Note.-I destroy all marks on the cor.of secs.16,17 ,20 and 21,which pertain to secs.17 and 20.
	Land mountainous.
	Soil,gravelly and rocky;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,84.70 chs.
	December 5,1908:At the noon hour the sky is overcast and solar observations are impossible.

	West on a random line bet.secs.18 and 19.
40.25	Intersect the 1/4 sec.cor.bet.secs.18 and 19,heretofore described.
	Thence I run
	East on a true line bet.the East halves of secs.18 and 19.
	Over mountainous land;through scattering timber and dense sage brush.
	Ascend.

Subdivision of T.35 S., R. 10 W.- Continued.

Chains.	
5.00	Enter heavy timber, bears N. and S.
23.50	Top of ridge, 300 ft.above ¼ sec.cor., bears NW. and SE.
	Descend.
27.00	Bottom of hollow, 50 ft.below ridge, course NW.
	Ascend.
33.00	Wood road on top of spur, 150 ft.above hollow,bears NW. and SE.
	Descend.
38.25	Bottom of hollow, 50 ft.below spur, course NW.
	Ascend.
40.25	The cor.of secs.17 and 18.
	Land, mountainous.
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	Timber, cedar and nut pine.
	Undergrowth sagebrush.
	Mountainous or heavily timbered land, or land covered with dense undergrowth 40.25 chs.

Note: For reasons already explained I run N.0° 3'W.on a true line bet.secs.20 and 30, Over mountainous land; through heavy cedar and nut pine timber and scattering sagebrush.

	Ascend.
1.00	Top of rocky spur, 25 ft.above sec.cor., bears N.80° W. and S.80° E.
	Descend abruptly.
3.25	Rocky gulch 200 ft.deep, course N.70° W.
	Ascend abruptly.
7.09	The closing cor.of secs.19 and 30,heretofore described.
	Thence N.0° 03'W.bet.secs.19 and 20,
17.75	Top of rocky spur, 250 ft.above gulch, bears NW. and SE. Descend.
25.00	Bottom of hollow, 150 ft.below spur, course NW.

Subdivision of T. 35 S., R. 10 W.- Continued.

Chains.	
	Ascend.
30.50	Road on top of ridge, 200 ft.above hollow, bears NW. and SE. Descend.
34.25	Same road, bears NE. and SW.
36.50	Head of hollow, 150 ft.below ridge, course NW.Ascend.
37.50	Same road, bears NW. and SE.
39.50	Top of spur, 25 ft.above hollow, bears NW. and SE. Descend.
40.00	Set a trachyte stone 22 x 12 x 9 ins., 16 ins.in the ground, for ¼ sec.cor.for sec.20, mkd.¼ on E.face; from which A nut pine 6 ins.dia., bears S.16° E. 20 lks.dist. mkd.¼ S 20 B T; and Raise a mound of stone 2 ft.base, 1½ ft.high E.of cor.
47.09	Set a granite stone 16 x 10 x 7 ins., 11 ins.in the ground, for ¼ sec.cor.sec.19, mkd.¼ on W.face;from which A nut pine 8 ins.dia., bears S.57° W. 16 lks.dist. mkd.¼ S 19 B T; and Raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
50.00.	Bottom of hollow,200 ft.below spur, course N.60° W. Ascend.
52.00	Top of spur,50 ft.above hollow,bears NW.and SE. Descend.
56.00	Bottom of hollow, 50 ft.below spur, course NW. Ascend.
60.00	Top of ridge, 50 ft.above hollow,bears NW. and SE. Descend.
76.25	Bottom of hollow, 100 ft.below ridge,course NW. Leave heavy, enter scattering timber and dense sage-brush, bears NW. and SE. Ascend.
79.00	Wood road on top of ridge,75 ft.above hollow,bears NW. and SE. Descend.
83.00	Head of hollow, 50 ft.below ridge, course NW. Ascend.

Subdivision of T.35 S.,R.10 W.-Continued.

Chains	
87.00	Top of spur 50 ft.above hollow bears NW and SE.
-	Descend.
88.20	Head of hollow 50 ft.below spur,course NW.
-	Ascend.
88.55	Intersect E.and W.line 4.95 chs. N.89° 52' E.of the cor.of secs.17 and 18.
-	Set a trachyte stone 16x14x11 ins.,11 ins.in the ground for closing cor.of secs.19 and 20,marked CC and 3 grooves on S.and 5 grooves on E.faces;from which
-	A nut pine 12 ins.dia.,bears S.75° E.128 lks.dist,
-	mkd. T 35 S R 10 W S 20 B T.
	A cedar 12 ins.dia.,bears S.53° W.133 lks.dist.,
-	mkd. T 35 S R 10 W S 19 B T.
	Land mountainous.
	Soil,gravelly and rocky;3rd.and 4th.rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,88.55 chs.
	December 5,1908.

December 6,1908:I return to the meridian established November 5,1908,at the cor.of secs.24 and 25,on E.
- bdy.of T.35 S.,R.11 W.,and at 8h 51m a.m.,l.m.t.,I set off 37°45' N.on the lat.arc;22° 28' S.on the decl.arc;
- and determine a meridian with the solar,which falls 0.30 ins.E.of the Polaris Meridian,therefore I conclude that the adjustments of the instrument are satisfactory

December 6,1908.

Subdivision of T.35 S.,R.10 W.-Continued.

GENERAL DESCRIPTION:

This township lies in a range of the Wahsatch mountains and on the slopes adjoining the Parowan Valley.

The soil is generally rich sand or clay loam intermixed with gravel, and stony or rocky.

In the higher elevations there is an abundance of pine, aspen and balsam timber, and on the slopes adjoining the valley a good supply of cedar and nut pine timber.

The land throughout the township is generally covered with undergrowth and shrubbery and rich and nutritious grasses.

Coal was found in the SW 1/4 of sec.31, in the bottom of Fiddler's Canon; but not sufficient to classify as coal lands.

The township is well watered by Summit Creek and its tributaries, and the streams running in the East and West Forks of Braffits Canon and small tributaries thereto; and by a number of small springs and ponds or lakes distributed throughout the township.

Sarah A.W.Wood has a cabin and corralls in SW 1/4 of sec.18 not seen from line.

Thomas Webster has a cabin in NW 1/4 of sec.19 not seen from line.

William Dalley Sen., now deceased, in NE 1/4 sec.25; has a dwelling house, dairy house and cellar, corral and calf pen of the value of about $300.00.

There are two cabins in NW 1/4 sec.34; claimants unknown.

The land is agricultural in character and most valuable for grazing purposes.

Mauhew H. Dalley,

December 6,1908. U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H.Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of T.35 S.,R.11 W.and T.35 S.,R.10 W.of the Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Hillman Dalley, *Chainman.*
Edward H.Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen Macfarlane, *Axman.*
David Hunter, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H.Dalley, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T.35 S.,R.11 W.and T.35 S.,R.10 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley, *Chainman.*
Edward H Parry, *Chainman.*
Maeser Dalley, *Moundman.*
George Frith, *Moundman.*
Bert Nelson, *Axman.*
Glen MacFarlane, *Axman.*
David Hunter, *Flagman.*

Subscribed and sworn to before me this 21st. day of December, 1908. ~~1907~~

SEAL

My Commission Expires May 16th, A. D. 1911.

Lenora G Dalley
Notary Public.

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BOOK A-358

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11th. day of April, 1901, ~~189~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of T.35 S., R. 11 W. and T.35 S., R.10 W. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 21st. day of December, 1908, ~~189~~

SEAL

My Commission Expires May 16th, A. D. 1911.

Lenora C. Dalley
Notary Public.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 189

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

executed by .....

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

United States Surveyor General.

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

United States Surveyor General.

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

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

SEAL

6-151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

[illegible] H. Dalley, United States Deputy Surveyor, do [illegible] received from Edward [illegible] Anderson [illegible] Utah, bearing date of the [illegible] April [illegible] 1901 I have well, faithfully, and truly, in my own [illegible] with the instructions furnished by the United States Surveyor [illegible] Utah, the Manual of Surveying Instructions, and the laws of the [illegible] the subdivisional lines of Town- [illegible] 34, [illegible] and 36 South, Range 9 West; [illegible] S., Rs. 16 & 17 W.; [illegible] Ranges [illegible], 10, and 11 West

[illegible] of the Salt Lake [illegible] State of Utah, which are represented in the [illegible] 1 and 2 [illegible] by me, and under my direction; and I do further solemnly [illegible] of said survey have been established and perpetuated in strict accordance with [illegible] Instructions and the special written instructions of the United States Surveyor [illegible] Utah and in the specific manner described in the field notes, and that [illegible] the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor.

[illegible] Mayhew H. Dalley, and sworn to before me [illegible] day of July, 1902.

[illegible]
County Clerk of [illegible]
County Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Feb. 25, 1911.

[illegible] of the survey of the Subdivisional lines of Township [illegible] South, Range No. 10 West of the Salt Lake Base and Meridian, [illegible]

[illegible] Mayhew H. Dalley [illegible] April 11, 1901, having been [illegible] field notes, and the [illegible] approved.

[illegible]
United States Surveyor General.

[illegible] field notes of the above described surveys in [illegible] from the original notes on file in this office.

United States Surveyor General.

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BOOK A-358

FILED
DEC 13 1909
WJH

M.S.B.
M.B.
E.R.

FIELD NOTES

OF THE ~~SURVEY~~ RETRACEMENT OF THE

SOUTH, WEST, AND FRACTIONAL NORTH BOUNDARIES

of

Township No. 34 South, Range No. 7 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew R. Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11th., 1901.

Retracement
~~Survey~~ *commenced* August 1st., 1909.

Retracement
~~Survey~~ *completed* August 9th., 1909.

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Retr. & Res. E. Bdy	1-44-20	5-27-01
" West Bdy	2-37-20	8-69-19
" North "		3-02-65

BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

Homer Dalley,	Chainman.
Edward H.Farrar,	Chainman.
James Tweedie,	Roundman.
Erastus Macfarlane	Roundman.
James Tweedie,	Axman.
Bert Nelson,	Axman.
Hercules Macfarlane	Flagman.

BOOK A-358

INDEX DIAGRAM.

Township No. 34 South, *Range* No. 7 West.

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

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Maeser Dalley and Edward H. Parry do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the ~~survey~~ retracement of S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W. of the Salt Lake Base and Meridian.

Maeser Dalley, Chainman.
Edward H Parry, Chainman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

WE, James Tweedie and Erastus Macfarlane do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the ~~survey~~ retracement of S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W., of the Salt Lake Base Meridian.

James Tweedie, Moundman.
Erastus Macfarlane, Moundman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

WE, James Tweedie and Bert Nelson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the ~~survey~~ retracement of S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W., of the Salt Lake Base and Meridian.

James Tweedie, Axman.
Bert Nelson, Axman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

I, Menzies Macfarlane, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey~~ retracement of S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W., of the Salt Lake Base and Meridian.

Menzies Macfarlane, Flagman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public.

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Retracement of South Boundary of Tp.34 S.,R.7 W.

Survey commenced August 1st.1909,and executed with a W.and L.E.Gurley Light Mountain Solar Transit No.31, provided with R.M.Jones' double latitude arc,and reversible level bubble.

The horizontal limb is provided with two double verniers,placed opposite to each other,which read to single minutes of arc;the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds respectively.

The instrument was examined,tested on the True Meridian,at Salt Lake City,Utah,found correct,and was approved by the Surveyor General for Utah,July 27,1901.

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

August 1,1909:At the corner of Tps.34 and 35 S.,Rs. 6 and 7 W.,which is a granite stone 10x10x5 ins.above ground,marked and witnessed as described by the Surveyor General,latitude 37°48'37" N.,longitude 112°33'13" W; at $4^h 5^m$ p.m.,l.m.t.,I set off 37°48'37" N.on the lat. arc;18°1'20" N.on the decl.arc;and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5.00 chs.N.of the cor.

August 1,1909:At $10^h 50.3^m$ p.m.,l.m.t.,I observe Polaris at Eastern Elongation in accordance with the Manual of Instructions,and mark a point in the line thus determined by a groove cut in a wooden plug driven in the ground 5.00 chs.N.of my station.

August 1,1909.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains. August 2,1909:At 6^h45^m a.m.,l.m.t., I lay off the Azimuth of Polaris 1°30' to the West and mark the meridian thus determined by a cross(x)cut in the stone already set 5.00 chs.N.of my station,on which the true meridian falls 0.35 ins.E.of the mark determined by the solar.

At 7^h 6^m a.m.,l.m.t.,I set off 37°48'37" N.on the lat.arc;17°52' N.on the declination arc;and mark a point in the true meridian determined by the solar by a groove cut on the stone set August 1,1909,5.00 chs. N.of my station;this mark falls 0.25 ins.E.of the true meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations,defines positions for true meridians respectively about 18" W.and 13" E.of the meridian established by Polaris observation;therefore,I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7^h30^m a.m. is N.16°33' W.;the angle thus determined gives the mag.decl.16°33' East.

Note:-Before Commencing the Survey of the East and Fractional North Boundaries of this Tp.I proceed to retrace the S.,W.,and fract.N.bdys.of this Tp.as follows:

Begin at the cor.of Tps.34 and 35 S.,Rs.6 and 7 W., heretofore described.

Thence I run

S.89°40' W.on retracement line bet.secs.1 and 36 .

Descend N.slope of ridge,through dense sage brush under growth.

15.00 Road in hollow 200 ft.below Tp.cor.bears N.30°W.and S.30° E.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
15.50	Creek 5 links wide,3 ins.deep,flows S.30° E.in Canon. Ascend.
16.35	Road to Panguitch bears S.30° E.and N.30° W.
18.00	Enter scattering mahogany bears N.and S.
38.97	Fall 2.33 chs.S.of the old cor.of secs.1 and 36,which is a volcanic stone 10x4x5 ins.above ground firmly set, and marked and witnessed as described by the Surveyor General.
43.30	Top of spur,400 ft.above Creek,bears N.and S. Descend.
52.80	Bottom of hollow,100 ft.below spur,course S.40° E. Ascend.
52.85	Enter heavy quakingasp timber bears N.and S.
54.05	Leave quakingasp.timber bears N.and S.
55.00	Top of ridge ,75 ft.above hollow,bears SE and NW. Descend.
77.94	Fall 4.26 chs.S.of the old cor.of secs.1,2,35 and 36, which is a volcanic stone12x8x5 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.
	The course of the first half mile is therefore N.86°55' W.,39.03 chs.;and the course of the second half mile is N.87° 30' W.39.01 chs.
	Land mountainous and rolling.
	Soil,gravel and loam;1st.and 3rd.rate.
	Timber,aspen.and mahogany.
	Undergrowth,sage brush.
	Mountainous land or land covered with dense undergrowth 78.04 chs.

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

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
.	S.89°40' W.on retracement line between Secs.2 and 35. Through dense sage brush undergrowth,scattering service berry and mahogany.
	Descend.
12.30	Hollow 100 ft.below the sec.cor.,course SW.
	Ascend.
32.00	Ridge,100 ft.above hollow,bears NE and SW.
	Descend.
40.12	Fall 140 lks.S.of the old 1/4 cor.bet.secs.2 and 35, which is a conglomerate stone,12x8x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
43.00	Branch of Dodd's Creek,4 lks.wide,3 ins.deep,in hollow, 150 ft.below ridge,course SW.
47.30	Dodd's Creek,10 lks.wide,4 ins.deep,course S.
	Ascend.
79.64	Fall 382 lks.S.of the old cor.of secs.2,3,34 and 35, which is a volcanic stone 15x6x24 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
	The course of the first half mile is therefore N.88°20' W.,40.14 chs.;and the course of the second half mile is N.86°50' W.39.58 chs.
	Land mountainous and rolling.
	Soil gravelly loam;2nd.rate.
	No timber.
	Undergrowth,sage brush,serviceberry brush and mahogany
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 79.72 chs.
	August 2,1909: At this cor.I set off 17°48' N.on the declination arc;and at 10h6m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°49' N., which is the proper lat.nearly.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
	S.89°40' W.on retracement line bet.secs.3 and 34.
	Through dense sage brush,serviceberry and oak under-growth.
	Ascend.
1.50	Top of ridge about 300 ft.high,bears N.and S.
	Descend.
8.00	Road in hollow,150 ft.below top of ridge,bears SE and NW. Course of hollow SE.
	Ascend.
9.50	Enter scattering quakingasp timber bears N.and S.
22.00	Spur 150 ft.high,bears NE and SW.
	Descend.
30.00	Enter dense pine and quakingasp timber bears N.and S.
39.90	Fall 209 lks.S.of the old 1/4 cor.bet.secs.3 and 34, which is a quartzite stone 10x4x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
52.00	Leave heavy timber bears NE and SW.
59.00	Hollow,200 ft.below top of ridge,course SW.
	Ascend.
60.50	Enter heavy aspen timber bears N.and S.
61.50	Leave aspen timber bears N and S.
72.25	Road bears N.and S.
77.50	Enter heavy quakingasp timber bears N.and S.
79.92	Fall 383 lks.S.of the old cor.of secs.3,4,33 and 34,, which is a volcanic stone 10x6x5 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
	The course of the first half mile is therefore N.87° 20' W.,39.94 chs.;and the course of the second half mile is N.87°50' W.40.05 chs.
	Land mountainous,and rolling.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.

Soil, loam and gravelly; 1st and 3rd rate.

Timber, aspen and pine.

Undergrowth, sage brush, serviceberry and oak.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 79.99 chs.

August 2, 1909.

August 3, 1909: At the old cor. of secs. 3, 4, 33 and 34, on the S. bdy. of the Tp., heretofore described, I set off 37°48' 30" N. on the lat. arc; 17°36' N. on the decl. arc; and at 8h6m a.m., l.m.t., determine a meridian with the solar.

Thence I run

S. 89°40' W. on retracement line bet. secs. 4 and 33.

Over nearly level land.

Through dense sage and oak undergrowth.

Gradually ascend.

5.26 Enter heavy aspen timber bears N. and S.

13.75 Leave heavy aspen timber bears N. and S.

28.36 Enter mahogany and heavy pine timber bears N. and S.

39.10 Wire fence bears S. 87° E. and N. 87° W.

42.38 Fall 262 lks. S. of the old 1/4 cor. secs. 4 and 33, which is a volcanic stone 12x7x5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

I mark new bearing tree as follows:

A balsam 6 ins. dia. bears S. 14°30' E. 33 lks. dist.; marked 1/4 S. 4 S. 7.

The course of this line is therefore N. 87°30' W. 42.42 chs.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
	Land rolling.
	Soil,loam and gravelly,1st.and 3rd.rate.
	Timber,aspen and pine and balsam.
	Undergrowth,sage,oak and mahogany.
	Good grass for grazing.
	Land heavily timbered or covered with dense undergrowth 42.42 chs.
	From the 1/4 cor.secs.4 and 33,heretofore described, I run
	S.89° 40' W.on retracement line bet.the W.halves of Secs.4 and 33.
40.00	Find no trace of the old cor.of secs.4,5,32 and 33. Set temporary cor.
	I continue line on same course bet.secs.5 and 32.
80.00	Find no trace of the old 1/4 cor.secs.5 and 32. Set temp.1/4 sec.cor.
124.05	Fall 5.42 chs.N.of the old cor.of secs.5,6,31 and 32, which is a volcanic stone,12x4x5 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.
	August 3,1909: At this cor.I set off 17°33' N.on the decl.arc;and at 10h6m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°49' N.,which is the proper lat.nearly.
	I calculate the course from this cor.to the old 1/4 cor.bet.secs.4 and 33 and re-establish the corners on line, as follows:
	The old bearing trees are dead and partly decayed:I mark new bearing trees as follows:

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains	
	A quakingasp 8 ins.dia.bears N.23 3/4° E.31 lks. dist.,marked T.34 S.,R.7 W.,S.32 B.T.
	A quakingasp 8 ins.dia.,bears S.52 1/2° E.45 lks. dist.,marked T.35 S.,R.7 W.,S.5 B.T.
	A quakingasp,4 ins.dia.bears S.21 1/2° W.39 lks. dist.,marked T.35 S.,R.7 W.,S.6 B.T.
	A quakingasp 4 ins.dia.,bears N.21° W.,22 lks.dist., marked T.34 S.,R.7 W.,S.31 B.T.
	Thence I run
	N.87° 10' E.on true line bet.secs.5 and 32.
	Through heavy aspen timber.
	Ascend.
8.50	Top of ridge 150 ft.above sec.cor.bears NE and SW.
	Descend.
	Leave aspen timber bears NE and SW.
	Enter dense sage and oak and serviceberry underbrush., bears NE and SW.
20.50	Ravine 150 ft.below ridge ,course S.
	Ascend.
30.00	Top of ridge 50 ft.above ravine,bears SE. and NW.
	Descend.
35.00	Enter heavy aspen timber bears NW and SE.
39.50	Ravine 50 ft.below ridge,course SE.
	Leave aspen timber,bears NW and SE.
	Ascend.
41.40	Find no trace of the old 1/4 sec.cor.
	Set a volcanic stone 16x10x6 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.
	No bearing trees within limits.
50.50	Top of ridge,200 ft.above ravine bears N.and S.
	Descend.
50.60	Enter heavy pine and aspen timber bears N.and S.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
64.80	Ravine 200 ft.below ridge,course N.
	Ascend.
73.40	Top of ridge 300 ft.above ravine bears N.and S.
	Leave quakingasp and pine timber bears N and S.
	Descend.
82.80	Find no trace of the old cor.of secs.4,5,32 and 33.
	Set a volcanic stone 18x10x7 ins.,12 ins.in the ground, for re-established cor.of secs.4,5,32 and 33,marked with 4 notches on the E.and 2 notches on the W.edges;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	Land mountainous.
	Soil gravelly and stony;3rd.and 4th.rate.
	Timber,aspen and pine.
	Undergrowth,sage brush,serviceberry and oak.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 82.80 chs.

	N.87°10' E.on a true line bet.the W.halves of Secs.4 and 33.
	Through dense sage brush,serviceberry,oak and mahogany.
	Descend.
36.50	Ravine 25 ft.deep,course NE.
	Enter scattering pine and aspen timber bears NE and SW.
41.40	The old 1/4 sec.cor. secs.4 and 33,heretofore described
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,pine and aspen and balsam.
	Undergrowth,sage brush,serviceberry ,oak and mahogany.

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 41.40 chs.
	August 3,1909.

	August 4,1909: At the old cor.of secs.5,6,31 and 32, on S.bdy.of Tp.,heretofore described,I set off 37°49' N.on the lat.arc;17°20' N.on the declination arc;and at 8h 6m a.m.,l.m.t.,determine a meridian with the solar.
	Thence I run
	S.89°40' W.on retracement line bet.secs.6 and 31.
	Through heavy aspen timber,and dense undergrowth.
	Descend.
5.50	Ravine 100 ft.below the sec.cor.,course S.15°W.
	Ascend.
27.15	Ridge 150 ft.above ravine bears N.and S.
	Descend.
38.60	Road bears N.E.and SW.
40.30	Fall 58 lks.S.of the old 1/4 cor.secs.6 and 31,which is a volcanic stone 9x7x8 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	As the old bearing tree is badly decayed,I mark new bearing tree as follows:
	A balsam 12 ins.dia.bears N.89 1/2° W.9 lks.dist., marked 1/4 S31 B T ;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
40.40	Leave timber bears NE and SW.
	Enter small swampy meadow bears NE and SW.
46.70	Bottom of hollow 200 ft.below ridge,with small spring

Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.	
	run;course S. Leave swampy meadow bears N.and S. Ascend.
54.50	Enter dense aspen timber bears N.and S.
80.80	Fall 117 lks.S.of the old N.E.cor.of Tp.35 S.,R.8 W., which is a quakingasp tree,10 ins.dia.,marked and witnessed as described by the Surveyor general,with a sand stone 10x10x6 ins.above ground along side of cor. As the SE bearing tree is decayed I mark new bearing tree as follows:
	A quakingasp 6 ins.dia.bears S.62 3/4° E.18.5 lks. dist.,marked T.35 S. R 7 W S 6 B T.
	The course of this line is therefore N.89°30' W.80.80 chs.
	Land mountainous.
	Soil,gravelly,2nd.rate.
	Timber,aspen.
	Undergrowth,chokecherry,serviceberry and oak.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.80 chs.
	August 4,1909: At this cor.I set off 17°17' N.on the decl.arc;and at 10h6m p.m.l.m.t.,observe the sun on the meridian,the resulting lat.is 37°49' N.,which is the proper lat.nearly.

From the NE cor.of Tp.35 S. R.8 W.,on the S.side of Tp. 34 S.,R.7 W.,heretofore described,I run

West on retracement line bet.secs.1 and 31.

Through heavy quakingasp and scattering balsam timber.

Ascend.

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Retracement of South Boundary of Tp.34 S.,R.7 W.

Chains.

21.00 Top of ridge 100 ft.above the Tp.cor.bears NE and SW.

Descend.

23.50 Old road bears NE and SW.

28.55. Leave timber bears NE and SW.

Thence over nearly level land.

36.50 Road bears N.70° E.and S.70° W.

38.00 Bottom of hollow 75 ft.below ridge ,course S.70° W.

Ascend.

40.54 The old 1/4 cor.sec.1,which is a limestone 8x6x 5ins. above ground,firmly set and marked and witnessed as described by the Surveyor General.

41.00. Enter heavy quakingasp timber bears NE and SW.

43.20 Top of spur 50 ft.high bears N.and S.

Leave timber bears N.and S.

Descend.

50.00 Foot of descent 25 ft.below spur,bears N.and S.

Thence over nearly level ground.

51.50 Begin gradual ascent bears N.and S.

52.50 Enter heavy quakingasp and scattering pine timber bears N.and S.

56.04. The closing cor.of Tps. 34 and 35 S.,Rs.7 and 8 W., which is a volcanic stone 8x6x4 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.

Land mountainous and rolling.

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

Timber quaking asp and balsam.

Good grass for grazing.

Mountainous or heavily timbered land 56.04 chs.

August 4,1909.

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.	
	August 5,1909: At the closing cor.of Tps.34 and 35 S., Rs.7 and 8 W.,on E.bdy.of Tp.34 S.,R.8 W.,at 50.40 chs.N.of the S.E.cor.of Tp.35 S.,R.8 W.,I set off 37° 49' N.on the lat.arc;17° 4' N.on the decl.arc;and at 8h6m a.m.,l.m.t.,determine a meridian with the solar. Thence I run
	North on retracement line on E.bdy.of sec.36.
14.12	Crest of mountain and ledge of granite 75 ft.high bears NE and SW.
	Descend abruptly.
29.12	The old cor.of secs.25,30,31 and 36,which is a volcanic stone 20x8x8 ins.in a mound of stone,marked and witnessed as described by the Surveyor general.
	Note:-Knowing that closing corners will be necessary on the latitudinal lines in Tp.34 S.,R.7 W., closing on the E.bdy.of Tp.34 S.,R.8 W.,I destroy the marks on the old corners pertaining to the East Tp.
	Note:-There is no change in topography on this line from that given in the original field notes.
	North on retracement line on E.bdy.of sec.25.
41.02	Fall 161 lks.W.of the old 1/4 cor.secs.25 and 30,which is a volcanic stone 18x10x9 ins.,firmly set in a mound of stone,and marked and witnessed as described by the Surveyor general.
	Note:-For reasons already explained I destroy all marks on this cor.pertaining to Tp.34 S.,R.7 W.
80.24	Fall 2.81 chs.W.of the old cor.of secs.24,25,19 and 30, which is a granite stone 10x7x5 ins.above ground, firmly set and marked and witnessed as described by the

Chains.

Surveyor general.

The course of this line is therefore on 1st.half mile N.2°15' E.41.05 chs.,and on second half mile N.1°45' E.39.24 chs.

Note:-I destroy all marks on this old cor.which pertain to T.34 S.,R.7 W.

As the bearing trees for secs.24 and 25 are badly decayed,I mark new bearing trees as follows:

A balsam 12 ins.dia.bears S.11 1/2° W.42.3 lks.dist. marked T.34 S.,R 8 W S 25 B T.

A balsam 4 ins.dia.bears N.51 1/2° W.8.2 lks.dist. marked T.34 S. R 8 W S 24 B T.

Note:-Topography on this line practically agrees with that given in original field notes.

August 5,1909: At this cor.I set off 17° 1' N.on the decl.arc;and at 0h6mp.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°50' N.,which is the proper lat.nearly.

North on retracement line on E.bdy.of Sec.24.

Through pine and balsam and quakingasp timber and chokecherry,serviceberry and quakingasp undergrowth.

Descend.

39.86 Fall:28 lks.E.of the old 1/4 cor.secs.19 and 24, which is a volcanic stone 8x8x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.

Note:-I destroy the marks on the old cor.pertaining to sec.19.

Note:-A stump of yellow pine 30 ins.dia.30 lks.N.of cor. Tree chopped and lying across the corner.

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.	
44.40	Foot of descent 150 ft.below sec.cor.course W.
	Ascend.
51.40	Top of ridge 100 ft.above foot of descent ,bears E. and W.
	Descend.
59.90	Bottom of swale 75 ft.below ridge,course W.
	Ascend.
64.90	Road bears N.80° E.and S.80° W.
69.90	Top of ridge 75 ft.above swale,bears E.and W.
	Descend.
78.90	Fall 221 lks.E.of the old cor.of secs.13,24,18 and 19, which is a granite stone 10x6x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor general.
	The course of the first half mile is therefore N.0°24'W 39.85 chs.;and the course of the second half mile is N.2°50' W.39.09 chs.
	Note:-I destroy all marks on this cor.pertaining to T. 34 S.,R.7 W.
	Land mountainous and rolling.
	Soil,gravelly with some volcanic rocks,2nd.and 4th.rate
	Timber,yellow pine,balsam and quakingasp.
	Undergrowth,chokecherry,quakingasp,mahogany and service berry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 78.95 chs.
	August 5,1909.

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.

August 6,1903: At the old cor.of secs.13,18,19 and 24,as established for cor.of secs.13 and 24,
I set off 37°51' N.on the lat.arc;16°46' N.on the decl.arc and at8h6ma.m.,l.m.t.determine a meridian with the solar.
Thence I run
North on retracement line on E.bdy.of Sec.13.
40.83 Fall 51 lks.E.of the old 1/4 cor.secs.13 and 18,which is a balsam 8 ins.dia.marked and witnessed as described by the Surveyor general.
The course of this line is therefore N.0°43' W.40.83 chs.
I destroy all marks on this cor.pertaining to sec.18.
Note:The topography on this line practically agrees with that given in the original field notes.

From the old 1/4 cor.on E.bdy.sec.13, I run
North on retracement line on E.bdy.of N.1/2 of Sec.13.
40.00 Find no trace of the old cor.secs.12,13,,7 and 18.
Set.temporary cor.
I continue my line North.
80.00 Find no trace of the old 1/4 cor.sec.7 and 12.
Set temp.1/4 sec.cor.
120.00 Find no trace of the old cor.secs.1,12,6 and 7.
Set.temp.sec.cor.
197.15 Fall 453 lks.W.of the old cor.of Tps.33 and 34 S. ,Rs.7 and 8 W.,which is a limestone 24x12x10 ins.,,set 18 ins.in a mound of stone,and marked and witnessed as described by the Surveyor general.
Note:-The falling answers to a correction of 1°20'

Chains.	
	and the whole distance 197.20 chs. or 78.88 chs.per mile;therefore I re-establish the corners on this 2 and 1/2 miles as follows:
	August 6,1909.
	August 7,1909:At the old cor.of Tps.33 and 34 S., Rs.7 and 8 W.,I set off 37°54' N.on the lat arc;16°30' N.on the decl.arc,and at 9h6m a.m.,l.m.t.,determine a meridian with the solar.
	Thence I run
	S.1°20' W.on true line on E.bdy.of sec.1.
	Through nut pine and cedar timber
	Descend rapidly along W.slope of ridge.
16.00	Foot of ridge 250 ft.below Tp.cor.bears N.70°W.and S. 70° E..
	Enter creek bottom bears N.70° W.and S.70° E.
	Leave timber bears E.and W.
	Enter dense oak,serviceberry,rose and chokecherry brush bears E.and W.
21.00	Paragoonah Canon road bears N.70° W.and S.70° E.
25.00	Red creek 10 lks.wide,6 ins.deep,rapid current,course N.75° W.
27.00	Begin ascent of ridge bears N.75° W.and S.75° E.
	Leave creek bottom,bears N.75° W.and S.75° E.
	Leave rose brush undergrowth,bears E.and W.
35.00	Enter mahogany bears NE and SW;continue in oak serviceberry and chokecherry undergrowth.
37.65	Top of ridge 400 ft.above the creek,bears NE and SW.
	Descend.
39.44	Find no trace of the old 1/4 sec.cor.
	Set a granite stone 16x8x6 ins.,11 ins.in the ground for re-established 1/4 cor.sec.1,marked 1/4 on W.face

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.	
	from which.
	A mahogany 4 ins.dia.bears S.580 W.5 lks.dist., marked 1/4 S 1 B T ;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
45.65	Ravine 75 ft.below ridge course NE.
	Ascend.
	Enter grove scattering yellow pine timber bears NE and SW.
64.50	Leave grove yellow pine timber bears NW and SE.
76.65	Top of ridge 150 ft.above ravine bears E.and W.
	Descend.
78.88	Find no trace of the old cor.secs.1,12,7 and 18.
	Set a granite stone 18x12x4 ins.,12 ins.in the ground, for cor.of secs.1 and 12,marked with one notch on N.and 5 notches on S.edges,from which
	A black pine 18 ins.dia.bears S.880 W.80 lks.dist., marked T.34 S.,R.8 W.S 12 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Land mountainous and creek bottom.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber;nut pine,cedar and yellow pine and scattering trees of black pineand mahogany.
	Undergrowth,oak,serviceberry,chokecherry,rose brush and scrubby mahogany;with willows and birch along creek.
	Good grass for grazing on S.side of canon.
	Mountainous land or land covered with dense undergrowth to 78.88 chs.

Chains.	
	S.10°20' W.on true line on E.bdy.of sec.12.
	Through dense oak,serviceberry and chokecherry.
	Descend.
3.00	Ravine 50 ft.below sec.cor.,course N.80° W.
	Ascend.
35.00	Top of ridge 30 ft.high bears E.and W.
	Descend.
38.44	North side of pond 40 lks.across,bears N.70° E.and S. 70° W.
38.84	South side of pond bears N.70° E.and S.70° W.
	Ascend.
39.44	Find no trace of the old 1/4 cor.secs.7 and 12.
	Set a granite stone 18x10x5 ins.,12 ins.in the ground, for 1/4 cor.sec.12,marked 1/4 on W.face;and raise a mound of stone ,2 ft.base 1 1/2 ft.high W. of corner.
	August 7th.1909:-At this cor I set off 16°28' N.on the decl.arc;and at 10h6mp.m.,l.m.t.,observe the sun on the meridian;the resulting lat is 37°52'N., which is the proper lat.nearly.
51.60	Top of ridge 150 ft.above 1/4 sec.cor.,bears N.80° E. and S.80° W.
	Descend.
57.50	Pond 150 lks.across,150 lks.E.of line.
61.50	Bottom of swale 50 ft.below ridge,course S.50° W.
	Enter heavy quakingasp timber bears NE and SW.
	Ascend.
65.50	Leave quakingasp timber bears NE and SW.
78.88	Find no trace of the old cor.of secs.7,12,13 and 18.
	Set a granite stone 20x10x8 ins.,15 ins.in the ground for re-established cor.of secs.12 and 13,marked with two notches on the N.and 4 notches on the S.edges, from which

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.	
	A yellow pine 36 ins.dia.bears S.14 1/2° W.429 lks. dist.,marked T 34 S R 8 W S 13 B T.
	A yellow pine 36 ins.dia.bears N.29° W.414 lks.dist. marked T 34 S R 8 W S 12 B T.
	Raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.
	Land mountainous and rolling.
	Soil gravelly,2nd.rate.
	Timber,small grove quakingasp and a few trees of yellow pine.
	Undergrowth,oak,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 78.88 chs.
	S.1°20' W.on E.bdy.of N.half of Sec.13.
	Through dense oak,serviceberry and choke cherry undergrowth.
	Ascend.
5.00	Enter medium heavy timber bears E.and W.
8.50	Old road bears E.and W.
30.50	Top of ridge 150 ft.above the sec.cor.,bears E.and W.
	Descend.
35.50	Hollow 75 ft.below ridge,course East.
37.50	North foot of bench 75 ft.high,bears E.and W.
	Ascend steep North slope.
39.44	The 1/4 sec.cor.on E.bdy.of sec.13 ,heretofore described.
	Land mountainous and rolling.

Retracement of West Boundary of Tp.34 S.,R.7 W.

Chains.

Soil gravelly,2nd.rate.

Timber,pine,balsam and quakingasp.

Undergrowth,oak,serviceberry and chokecherry.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth

39.44 chs.

August 7,1909.

Retracement of Fractional North Boundary of T.34 S.,R.7 W.

August 9,1909:At the old cor.of secs.5,6,31 and 32 on the North boundary of the Tp.,which is a granite stone 10x5x5 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General,I set off 37°53' N.on the lat.arc;15°59' W.on the decl.arc; and at 7h5m a.m.l.m.t.,determine a meridian with the solar.

Note:-Knowing from retracement of the S.and W.bdys. of the Tp.that that the subdivisional line in this Tp. will not close on the old corners,I destroy all marks pertaining to Tp.34 S.,R.7 W.and mark bearing trees as follows:

A nut pine 6 ins.dia.bears N.32°W.56 lks.dist., marked T 33 S R 7 W S 31 B T.

A nut pine 16 ins.dia.bears N.60°10' E.74 lks.dist., marked T 33 S R 7 W S 32 B T.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.

Chains.	
	Thence I run
	East on retracement line on S.bdy.sec.32.
	Through medium heavy timber-nut pine and cedars- and dense oak,sage brush,choke cherry and serviceberry.
	Ascend.
3.35	Cⁱd road bears N.and S.
23.50	Ravine 50 ft.deep,course N.
28.25	Top of ridge 300 ft.above the sec.cor. ,and 100 ft. above ravine,bears N.and S.
	Leave timber bears N.and S.;continue in dense under-growth.
	Descend.
40.20	Fall 44 lks.N.of the old cor.of secs.5 and 32,which is a granite stone 10x5x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	Note:- For reasons already explained I destroy all marks on this cor.pertaining to sec.5;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
45.00	Enter heavy cedar and nut pine timber bears N.and S.
60.70	Leave timber bears N.and S.
	Enter Little Creek valley.
61.80	Wash at foot of ridge,300 ft.below top of last ridge, 15 lks.wide,10 ft.deep,course NE.
	Descend more gradually.
73.50	Wash 15 lks.wide,10 ft.deep,course N.20° E.
	Ascend.
75.50	Junction of Bear Valley and Canon roads bears N.about 15.00 chs.dist.
78.50	Top of spur ,50 ft.above wash bears N.and S.
	Descend.
80.50	Fall 35 lks.N.of the old cor.of secs.4,5,32 and 33, which is a granite stone,10x8x6 ins.above ground,marked and witnessed as described by the Surveyor General.
	Note:I destroy all marks on this cor.pertaining to

Chains	
	Secs.4 and 5;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	The course of the first half mile is therefore S. 89°22' E.40.20 chs.;and the course of the second half mile N.89°52' E.40.30 chs.
	Land mountainous and rolling.
	Soil gravelly and loam;3rd and 2nd rate.
	Timber,cedar and nut pine.
	Undergrowth,sage brush,oak,serviceberry and choke-cherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.50 chs.
	East on retracement line on S.bdy.of sec.33.
	Through dense sage undergrowth and scattering oak and serviceberry.
	Descend.
4.00	Foot of spur 50 ft.below sec.cor.,bears N.and S.
	Thence over nearly level ground in creek bottom.
5.20	Creek 1 link wide 1 inch deep,course N.20° E.
6.30	Old road from Paragoonah to Mountain ranches and Panguitch,bears N.20° W.and S.20° E.
7.40	Little Creek 15 lks.wide,6 ins.deep,course N.20° W.
	Begin ascent of low ridges.
13.40	Old road bears N.20° W.and S.20° E.
13.80	Road bears N.20° W.and S.20° E.
14.50	Top of spur 25 ft.high,100 ft.above creek,bears N.20°W. and S.20° E.
	Continue ascent.

Chains.

40.70 Fall 57 lks.N.of the old 1/4.cor.secs.4 and 33,which is a granite stone 8x6x5 ins.above ground,firmly set, and marked and witnessed as described by the Surveyor General.

Note:-I destroy all marks on this cor.pertaining to sec.4;and raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.

81.05 Fall 42 lks.N.of the old cor.of secs.3,4,33 and 34, which is a granite stone 12x7x5 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor General.

Note:I destroy the marks on this cor.pertaining to secs 3 and 4,and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

The course of this line is therefore on the first 1/2 mile S.89°12' E.40.70 chs.and on the second half mile N.89°47' E.40.35 chs.

Land creek bottom and low ridges.

Soil,rich loam and gravelly;1st.and 3rd.rate.

No timber.

Undergrowth,dense sage and scattering oak and serviceberry brush.

Good grass for grazing.

Land covered with dense undergrowth to 81.05 chs.

August 9,1909:At this cor.I set off 15°54' N.on the decl.arc;and at 10h5m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°54' N., which is the proper lat.nearly.

Retracement of Fractional North Boundary of Tp.34 S.,R.7 W.

Chains.	
	East on retracement line on South boundary of Sec.34.
	Through dense sage brush,scattering oak and serviceberry brush.
	Ascend gradually.
5.00	Top of spur about 10 ft.high and 50 ft.above sec.cor. bears N.and S.
	Continue ascent.
40.70	Fall 23 lks.S.of the old 1/4 sec.cor.bet.secs.3 and 34, which is a granite stone 8x8x6 ins.above ground,firmly set,and marked and witnessed as described by the Surveyor general.
	Note:-I destroy all marks on this cor.pertaining to sec.3,and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
81.10	Fall 54 lks.S.of the old cor.of secs.2,3,34 and 35,at the W.foot of Little Creek Peak,Which is a volcanic stone 12x8x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
	I raise a mound of stone 2 ft.base 1 1/2 ft.high W. of cor.
	Note:-I destroy all marks on this corner pertaining to secs.2 and 3.
	The course of this line is therefore on first half mi. N.89° 41' E.40.70 chs.;and onthe second half mile N.89° 34' E.40.40 chs.
	Land foot hills adjoining Little Creek Peak and gently sloping to West.
	Soil,gravelly loam,3rd.and 2nd.rate.
	No timber.
	Undergrowth,dense sagebrush and scattering oak and serviceberry brush.
	Good grass for grazing.
	Dense undergrowth 81.10 chs.

Retracement of Fractional North Boundary of Tp.34 S.R 7 W.

Chains.

August 9,1969.

Mayhew H. Dalley
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey of~~ retracement the S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W. of the Salt Lake Base and Meridian, showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
James Tweedie, *Moundman.*
Erastus Macfarlane, *Moundman.*
James Tweedie, *Axman.*
Bert Nelson, *Axman.*
Menzies Macfarlane, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in ~~surveying~~ retracing all those parts or portions of the S. and W. bdys. and fractl. N. bdy. of T. 34 S., R. 7 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Maeser Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
James Tweedie, *Moundman.*
Erastus Macfarlane, *Moundman.*
James Tweedie, *Axman.*
Bert Nelson, *Axman.*
Menzies Macfarlane, *Flagman.*

Subscribed and sworn to before me this 10th. day of September, 19 09.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

[illegible] United States Deputy Surveyor, [illegible] solemnly swear that in pursuance of a contract entered from [illegible] United States Surveyor General for [illegible] bearing date of the [illegible] day of [illegible] 19[illegible] I have well, faithfully, and truly, in my own person, and in strict conformity with the instructions furnished by the United States Surveyor General for [illegible], the Manual of Surveying Instructions, and the laws of the United States, [illegible] all those parts or portions of [illegible] of the [illegible] of the [illegible] in the State of [illegible] which are represented in the foregoing field notes as having been surveyed by me, and under my direction, and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for [illegible] and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

[illegible]
United States Deputy Surveyor.

Subscribed by said [illegible] and sworn to before me this [illegible] day of [illegible] 19[illegible].

[illegible]
[illegible] Clerk, [illegible]

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, Feb. [illegible], 1912

The foregoing field notes of the survey of [illegible] the South, West [illegible] Principal Meridian [illegible] No. [illegible] South, Range No. 7 West of the Salt Lake Base and Meridian, Utah.

[illegible] by [illegible]
[illegible] contract No. [illegible] dated [illegible] 19[illegible] having been duly examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

[illegible]
United States Surveyor General.

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

United States Surveyor General.

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BOOK A-358

FIELD NOTES

X.I.B.

OF THE SURVEY OF THE

EAST AND FRACTIONAL NORTH BOUNDARIES

of

Township No.34 South, Range No.7 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew R. Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11th, 1901. ~~19~~

Survey commenced August 9th, 1909. ~~19~~

Survey completed March 4, 1910. ~~19~~

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Light

E. Bdy 5-28-80

N. Bdy 3-63-58

BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

1909:	Maeser Dalley,	Chainman.
	Edward H.Parry,	Chainman.
	James Tweedie,	Moundman.
	Erastus Macfarlane	Moundman.
	James Tweedie,	Axman.
	Bert Nelson,	Axman.
	Menzies Macfarlane	Flagman.
1910:	Maeser Dalley,	Chainman.
	Arthur Pratt,	Chainman.
	Maeser Dalley,	Moundman.
	Arthur Pratt,	Moundman.
	Maeser Dalley,	Axman.
	Arthur Pratt,	Axman.

BOOK A-358

INDEX DIAGRAM.

Township No.34 South, *Range* No.7 West.

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley and Edward H. Parry do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the E.bdy.and Fractl.N.bdy.of T.34 S.,R.7 W.,of the Salt Lake Base and Meridian, Utah.

Maeser Dalley, Chainman.
Edward H. Parry, Chainman.

Subscribed and sworn to before me this 30th. day of July, 1909.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

We, James Tweedie and Erastus Macfarlane do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the E.bdy.and Fractl.N.bdy.of T.34 S.,R.7 W.of the Salt Lake Base and Meridian, Utah.

James Tweedie, Moundman.
Erastus Macfarlane, Moundman.

Subscribed and sworn to before me this 30th. day of July, 1909.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

We, James Tweedie and Bert Nelson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the E.bdy.and Fractl.N.bdy.of T.34 S.,R.7 W.of the Salt Lake Base and Meridian, Utah.

James Tweedie, Axman.
Bert Nelson, Axman.

Subscribed and sworn to before me this 30th. day of July, 1909.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

I, Menzies Macfarlane, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the E.bdy.and Fractl.N.bdy.of T.34 S.,R.7 W.of the Salt Lake B Base and Meridian, Utah.

Menzies Macfarlane, Flagman.

Subscribed and sworn to before me this 30th. day of July, 1909.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

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BOOK A-358

INDEX DIAGRAM.

Township 34 South, *Range* 7 West, S.L.Mer.

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Meanders Page .....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley and Arthur Pratt

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the Corrective survey of Fractional North Boundary of T.34 S ,R.7 W.,of the Salt Lake Base and Meridian,Utah.

Maeser Dalley, Chainman.
Arthur Pratt, Chainman.

Subscribed and sworn to before me this 2nd. day of March, 1910.

My Commission Expires May 16th, A. D. 1911.

SEAL

Senora C Dalley
Notary Public, Iron County, Utah.

We, Maeser Dalley and Arthur Pratt

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the Corrective survey of Fractl.N.Bdy.of T.34 S .,R.7 W.of the Salt Lake Base and Mer. ,Utah.

Maeser Dalley, Moundman.
Arthur Pratt, Moundman.

Subscribed and sworn to before me this 2nd. day of March, 1910

My Commission Expires May 16th, A. D. 1911.

SEAL

Senora C Dalley
Notary Public, Iron County, Utah.

We, Maeser Dalley and Arthur Pratt

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the Corrective survey of Fractl.N.Bdy.of T.34 S.,R.7 W.of the Salt Lake Base and Mer. ,Utah.

Maeser Dalley, Axman.
Arthur Pratt, Axman.

Subscribed and sworn to before me this 2nd. day of March, 1910.

My Commission Expires May 16th, A. D. 1911.

SEAL

Senora C Dalley
Notary Public, Iron County, Utah.

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

....., Flagman.

Subscribed and sworn to before me this ..... day of ....., 19 .

SEAL

6—151

East Boundary of Tp.34 S.,R 7 W.

Chains.

Survey commenced August 9,1909,and executed with the Instrument used in the Retracement of the South, West and Fractional North Boundaries of this Township, and described in the field notes of the Retracement of the South Boundary of T.34 S.,R.7 W.

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

August 9,1909:I return to the meridian established August 2,1909,at the cor.of Tps.34 and 35 S.Rs.6 and 7 W.,as described in the Notes of the Retracement of the S.bdy.of this TP.,lat.37°48'37" N.,long.112°33'13" W.; at 4^h5^m p.m.,l.m.t.,I set off 37°49' N.on the lat.arc; 15°51' N.on the decl.arc;and determine a meridian with the solar and mark the point thereof on the stone already set 5.00 chs.North of the cor.;this mark falls 0.35 ins.West of the meridian established by Polaris observation.

August 9,1909.

August 10,1909:at 8^h5^m a.m.,l.m.t.,I set off 37°49'N on the lat.arc.;15°40' N.on the decl.arc;and and mark the point on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.25 ins.E.of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines

Chains.

The solar apparatus by p.m.and a.m.observations defines positions for true meridians respectively about 18" W.and 13" E.of the meridian established by Polaris observation,being the same as before;therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h30m a.m., is N.16°33' W.;the angle thus determined gives the Mag. decl. 16°33' East.

I begin at the cor.of Tps.34 and 35 S.,Rs.6 and 7 W. heretofore described.

Thence I run

North bet.secs.31 and 36.

Gradually ascending along W.slope of ridge;through short dense sage undergrowth.

40.00 Set a volcanic stone 16x12x8 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 cor.is on W.slope of ridge about 2.00 chs.W.of top of ridge and about 150 ft.above the TP.cor.

57.00 A wash in bottom of ravine 10 ft.deep,4 ft.wide and 3 ft.deep,1.00 ch.W.of line,heads N.30° W.about 5.00 chs. coarse S.20° W.

Ascend SW slope of ridge.

74.75 Enter heavy quakingasp timber bears SE and NW.

75.00 Top of ascent on SE slope of ridge about 200 ft.above the 1/4 sec.cor.,bears SE and NW.

East Boundary of Tp.34 S.,R.7 W.

Chains	
	Descend gradually along E.slope of ridge.
80.00	Set a granite stone 18x12x6 ins.,12 ins.in he ground for cor.of secs.25,30,31 and 36,marked with 1 notch on S.and 5 notches on N.edges;from which
	A quakingasp 7 ins.dia.bears N.26 1/2° E.16.4 lks. dist.,marked T.34 S.,R.6 W.S 30 B T.
	A quakingasp 8 ins.dia.bears S.31° E.144 lks.dist., marked T 34 S R 6 W.S 31 B T.
	A quakingasp 6 ins.dia.bears N.44 1/2° W.28.5 lks. dist.,marked T 34 S R 7 W S 25 B T.
	No other suitable bearing tree within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Corner in swale about 25 ft.below top of ascent.
	Course of swale S.E.
	Land mountainous.
	Soil gravelly and stony;2nd.and 3rd.rate.
	Undergrowth,sage brush.
	Timber,quakingasp.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	North bet.secs.25 and 30
	Through heavy quakingasp timber,and dense sage ,mahogany,serviceberry and chokecherry undergrowth.
	Gradually ascend.
1.60	Top of ascent on E.slope of ridge about 25 ft.above the Sec.cor.bears S.70° W.and N.70° E.
	Enter heavy pine and balsam timber bears NE and SW.
	Leave heavy and continue in scattering quakingasps.

East boundary of Tp.34 S.,R.7 W.

Chains.	
	Descend rapidly over Northerly slope of ridge.
13.00	Bottom of ravine 200 ft.below top of ascent,course NE.
	Leave heavy and enter scattering timber bears NE and SW.
	Ascend.
17.25	Top of ridge 100 ft.above ravine bears NE and SW.
	Descend.
40.00	Set a granite stone 16x12x5 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.
	Corner about 100 ft.below top of ridge.
46.00	Enter heavy quakingasp timber bears NW and SE.
48.50	Bottom of ravine 150 ft.below the 1/4 sec.cor.,and spring run 1 lk.wide 2 ins.deep,course NW.
50.00	Leave heavy quakingasp timber bears SE and NW.
	Continue in scattering pine timber.
	Ascend.
69.80	Ravine 1.00 ch.wide 25 ft.deep,course W.about 5.00 chs.to main ravine.
78.00	Top of spur on W.slope of ridge 100 ft.above spring run bears E.and W.
	Descend.
80.00	Set a granite stone 18x12x8 ins.,12 ins.in the ground, for cor.of secs.24,25,19 and 30,marked with 2 notches on the S.and 4 notches on the N.edges;from which
	A cedar 14 ins.dia.bears N.72° E.44.5 lks.dist., marked T 34 S R 6 W S 19 B T.
	A mahogany 10 ins.dia.bears S.37° E.68.5 lks.dist., marked T 34 S R 6 W S 30 B T.
	A cedar 18 ins.dia.bears N.79 3/4° W.32.8 lks.dist., marked T 34 S R 7 W S 24 B T.
	A pinion pine 5 ins.dia.bears S.57 1/4°W.118 lks.dist. marked T 34 S R 7 W S 25 B T.
	Raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor

East Boundary of Tp.34 S.,R.7 W.

Chains	
	Corner about 50 ft.below top of spur.
	Land mountainous.
	Soil gravelly and stony;3rd.and 4th.rate.
	Timber,quakingasp,pine and balsam.
	Undergrowth,sage,oak,serviceberry and choke cherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 10,1909: The sky is overcast at the noon hour and latitude observations are impracticable.
	North bet.secs.19 and 24.
	Through scattering pine and cedar timber,and dense oak sage brush,serviceberry and chokecherry brush.
	Descend.
1.50	Enter heavy quakingasp and pine timber bears SE and NW.
2.50	Ravine about 75 ft.deep,course NW.about 4 chs.to main ravine.
3.00	Leave heavy quakingasp and pine timber bears NE and SW.
	Enter scattering mahogany bears E.and W.
	Continue in scattering pine and cedar timber.
7.00	Top of spur on W.slope of ridge 50 ft.high bears E.and W.
18.47	Bottom of main ravine 200 ft.below the sec.cor.,course N.E.
21.00	Begin ascent of SE slope of steep rocky ridge,bears NE and SW.
40.00	Set a granite stone 14x12x8 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

East Boundary of Tp.34 S.,R.7 W.

Chains.	
	Pits impracticable.
	Corner on steep E.slope of high ridge about 350 ft. above ravine.
	Old log cabin in bottom of ravine bears N.53°30' E. about 30.00 chs.dist.
54.25	Top of E.point of ledges 100 ft.above the 1/4 sec.cor, bears S.70° W.
	Old log cabin bears N.73°30' E.about 20.00 chs.dist.
	Descend rapidly over NE and NW slopes of ridge.
68.00	Enter heavy quakingasp timber bears NE and SW.
69.65	Ravine about 300 ft.below top of E.point of ledges, course E.about 10.00 chs.thence SE.
	Wash in bottom of ravine 10 lks.wide 5 ft.deep.
	Leave quakingasp timber bears NE and SW.
	Ascend SE slope of ridge.
78.00	Spur about 150 ft.above ravine bears E.and W.
	Descend.
80.00	Set a granite stone 24x10x8 ins.,18 ins.in the ground, for cor.of secs.13,24,18 and 19,marked with 3 notches on N.and S.edges;from which
	A red cedar 8 ins.dia.bears N.35° W. 45.5 lks.dist., marked T 34 S R 7 W S 13 B T.
	No other bearing trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil,stony and gravelly;3rd and 4th.rate.
	Timber,pine,cedar and quakingasp.
	Undergrowth,sagebrush,oak,mahogany,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	This cor.is about 60 ft.below top of spur.

East Boundary of Tp.34 S.,R.7 W.

Chains.	
	August 10,1909.
	August 11,1909:At 8^h5^ma.m., l.m.t.,I set off 37°51' N.on the lat.arc;15°22' N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.13,18,19 and 24.
	Thence I run
	North bet.secs.13 and 18.
	Through dense sage brush,oak and chokecherry undergrowth,and scattering cedar and pine timber.
	Descend.
2.85	Ravine 50 ft.below the sec.cor.;course SE.
	Ascend.
8.00	Top of ridge 100 ft.above ravine bears S55°E and N55°W.
	Descend.
15.80	Ravine 100 ft.below top of ridge,course S55°E.
	Ascend.
17.00	Enter dense mahogany brush bears NW and SE.
	Continue in sage brush,chokecherry and oak.
30.50	Top of ridge 200 ft.above ravine bears SE and NW.
	Enter medium heavy pine and quakingasp timber bears SE and NW.
	Leave mahogany brush bears SE and NW.
40.00	Set a granite stone 16x10x4 ins.,11 ins.in the ground, for 1/4 sec.cor.marked 1/4 on W.face;from which
	A yellow pine 36 ins.dia.bears S.40 1/4° E.11 lks. dist.,marked 1/4 S 18 B T.
	A yellow pine 15 ins.dia.bears S.39 1/2° W.26 lks. dist.,marked 1/4 S 13 B T.

East Boundary of Tp.34 S.,R.7 W.

Chains.	
	Corner about 200 ft.below top of ridge.
42.50	Ravine about 250 ft.below top of ridge,course NE.
	Ascend.
47.00	Top of ridge 100 ft.above ravine,bears NE and SW.
	Descend.
53.50	Enter swamps in bottom of hollow 100 ft.below top of ridge,bears SE and NW.
	Thence along creek bottom.
57.25	Creek 3 lks.wide,3 ins.deep,clear water,slow current, course SE.
	Leave swamps bears SE and NW.
58.00	Leave heavy timber bears SE and NW,and continue in scattering timber,and dense undergrowth.
	Leave creek bottom bears SE and NW.
	Ascend.
69.50	Enter dense mahogany brush bears E.and W.
80.00	Set a volcanic stone 20x10x6 ins.,15 ins.in mound of stone,for cor.of secs.7,12,13 and 18,marked with 4 notches on S.and 2 notches on N.edges;from which
	A mahogany 8 ins.dia.bears N.12 1/4° E.7 lks.dist. marked T 34 S R 6 W S 7 B T.
	A nut pine 15 ins.dia.bears S.7° E.113 lks.dist., marked T 34 S R 6 W S 18 B T.
	A nut pine 15 ins.dia.bears S.3 1/4° W.102 lks.dist. marked T 34 S R 7 W S 13 B T.
	A mahogany 6 ins.dia,bears N.65° W.48 lks.dist., marked T 34 S R 7 W S 12 B T.
	Corner about 300 ft.above the creek.
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,quakingasp,pine,mahogany and cedar.
	Undergrowth,sage brush,oak,serviceberry and mahogany.
	Good grass for grazing.

East Boundary of Tp.34 S.,R.7 W.

Chains	
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	North bet.secs.7 and 12.
	Over mountainous land;through scattering cedar,pine, balsam and mahogany timber and dense sage brush,oak and serviceberry undergrowth.
	Ascend.
7.50	Top of ridge 150 ft.above sec.cor., and about 450 ft. above the creek bears N.60° E.and S.60° W.
	Descend gradually.
9.50	Begin more abrupt descent bears NE and SW.
13.50	Foot of steep descent bears NE and SW.
	Descend more gradually.
24.50	Enter yellow pine and quakingasp timber bears E.and W.
	Leave cedar and nut pine timber bears E.and W.
26.50	Begin abrupt descent over steep N.slope of ridge bears E.and W.
32.25	Old road and trail bears NE and SW.
40.00	Set a volcanic stone 16x12x5 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A balsam 6 ins.dia.bears N.39° E.11 lks.dist., marked 1/4 S 7 B T.
	A red pine 8 ins.dia.bears N.74 3/4°W.13 lks.dist., marked 1/4 S 12 B T.
	August 11,1909:At this 1/4 sec.cor.,I set off 15°19' N. on the decl.arc;and at 10h5mp.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°52' N.,which is the proper lat.nearly.

East Boundary of Tp.34 S.,R.7 W.

Chains.	
41.75	Bottom of hollow 400 ft.below top of ridge bears E.and W.
43.75	Creek in bottom of hollow,2 lks.wide,3 ins.deep,clear water,rapid current,course E.
	Leave quakingasp timber bears E.and W.
	Ascend.
58.25	Top of ridge 100 ft.above the creek,bears N.60° W.and SE.
	Descend rapidly.
58.50	Enter heavy quakingasp timber bears SE and NW.
65.50	Creek in bottom of hollow at foot of ridge,100 ft.below top of ridge,2 lks.wide,3 ins.deep,in wash 15 lks.wide and 6 ft.deep,course SE.
	Leave quakingasp and enter cedar and pine timber bears SE and NW.
	Ascend steep SW slope of ridge.
67.00	Old log road bears NW and SE.
80.00	Set a volcanic stone 20x12x10 ins.,15 ins.in mound of stone for cor.of secs.1,6,7 and 12,marked with 5 notches on the S.and 1 notch on the N.edges;from which
	A nut pine 18 ins.dia.bears N.57 1/4° E.22 lks.dist. marked T 34 S R 6 W S 6 B T.
	A cedar 14 ins.dia.bears S.10 1/4° E.113 lks.dist., marked T 34 S R 6 W S 7 B T.
	A nut pine 8 ins.dia.bears S.45 1/4 °W.98 lks.dist., marked T 34 S R 7 W S 12 B T.
	A mahogany 7 ins.dia.bears N.24 1/2° W.87 lks.dist. marked T 34 S R 7 W S 1 B T.
	Corner about 250 ft.above the creek.
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,pine quakingasp,cedar and mahogany.
	Undergrowth,sage brush,oak,serviceberry,choke cherry and mahogany brush.

East Boundary of Tp.34 S.,R.7 W.

Chains	Willow and birch undergrowth along the creeks.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	North bet.secs.1 and 6.
	Over mountainous land;through scattering pine,cedar and mahogany timber and sage brush,serviceberry oak and chokecherry undergrowth.
	Ascend.
8.00	Top of ridge 150 ft.above sec.cor.bears N.60° E.and S. 60° W.
	Descend.
17.50	Wash in hollow 125 ft.below top of ridge,10 lks.wide, 6 ft.deep,course SW.
	Ascend gradually.
18.00	Trail bears NE and SW.
29.60	Set temp.cor.for NE corner of Tp.34 S.,R.7 W.
	August 11th.1909.
	I afterwards establish permanent cor at
28.80	North of cor.of secs.1,6,7 and 12.
	See notes of Survey of Fractional North Boundary of this Tp.
	Land mountainous.
	Soil gravelly and stony;3rd and 4th.rate.
	Timber,pine,cedar and mahogany.
	Undergrowth,sage brush,oak,serviceberry and choke cherry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 28.80 chs.
	August 12,1909.

chains	
	August 12,1909: At the temp.cor.set for N. cor.of Tp.34 S.,R.7 W.,I set off 37°54' N.on the lat.arc; 15°4' N.on the decl.arc;and at 8h5m p.m.,l.m.t., determine a meridian with the solar.
	Thence I run
	West on a random line on North boundary of Tp.,setting regular 1/4 sec.and sec.corners,and at
205.00	Fall 80 lks.N.of the old cor.of secs.2,3,34 and 35, heretofore described.
	Aug.12,1909:At this cor.the sky is overcast at the noon hour and latitude observation impossible.
	I begin at the old cor.of secs.2,3,34 and 35,and run
	East on a true line on N.bdy.of E.part of Sec.3.
	Over mountainous land;through dense oak,serviceberry and choke cherry undergrowth.
	Ascend steep W.slope of Little Creek Peak.
5.00	Set a trachyte stone 16x10x8 ins.,11 ins.in the ground, for 1/4 cor.sec.3,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.
	Cor.about 125 ft.above old sec.cor.
21.00	Enter heavy mahogany timber bears N.and S.
31.00	Enter heavy quakingasp and scattering pine timber bears N.and S.
	Leave mahogany bears N.and S.
44.60	Leave timber and undergrowth bears N.and S.
	Enter bed of volcanic rocks bears N.and S.
45.00	Set a trachyte stone 16x12x8 ins.,11 ins.in mound of stone in bed of volcanic rocks for cor.of secs.2 and 3,marked with 4 notches on the W.and 2 notches on the E.

correction see p.22 note.

Chains.

edges, from which

A quakingasp 6 ins.dia.bears S.72° E.137 lks.dist., marked T 34 S R 7 W S 2 B T.

A quakingasp 4 ins.dia.bears S.52° W.34 lks.dist., marked T 34 S R 7 W S 3 B T.

Corner about 1100 ft.above the foot of Little Creek Peak on NW slope of Peak.

Land mountainous.

Soil gravelly and stony;4th.rate.

Timber, quakingasp, mahogany and pine.

Undergrowth, oak, serviceberry and chokecherry.

Good grass and shrubbery for grazing except in volcanic bed.

Mountainous or heavily timbered land or land covered with dense undergrowth 45.00 chs.

East on a true line on N.bdy.of sec.2.

Over mountainous land;through bed of volcanic rocks.

Ascend rapidly.

2.25 Leave bed of volcanic rocks bears NE and SW.

Enter heavy pine and scattering quakingasp timber, and scattering oak and serviceberry undergrowth bears NE and SW.

15.85 Top of Little Creek Peak on NE slope ,about 500 ft. above the sec.cor., bears N.22° E.and S.22° W.;from which

A triangulation point of the United States Geological Survey known as "Little Creek", as described in Special Instructions under this Contract bears

For cor
notes re
as this

Fractional North Boundary of Tp.34 S.,R.7 W.

Chains.	
	S.21°50' W. 7.19 chs.dist.
	Descend abruptly over E.slope of Little Creek Peak; through scattering quakingasp and pine timber and dense mahogany,oak and serviceberry brush.
40.00	East foot of Little Creek Peak,about 1000 ft.below the top,bears N.20° W.and S.20° E.
	Set a trachyte stone 18x10x8 ins.,12 ins.in the ground, for 1/4 cor.sec.2,marked 1/4 on N.face;from which
	A black jack pine 30 ins.dia.bears S.56° E.,20 lks. dist.,marked 1/4 S 2 B T.;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
40.20	Leave pine and quakingasp timber bears N.and S.
	Continue in mahogany and dense undergrowth.
	Descend gradually.
42.50	Hollow at foot of descent 50 ft.below the 1/4 sec.cor. course S.60° E.
	Ascend.
61.40	Head of ravine,course S.
73.00	Top of ridge 150 ft.above hollow,bears N.60° W.and S. 60° E.
	Descend.
80.00	Set a volcanic stone 14x12x8 ins.,10 ins.in the ground, for cor.of secs.1 and 2,marked with 5 notches on the W.and 1 notch on the E.edges;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Corner about 100 ft.below top of ridge.
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,quakingasp,mahogany and pine.
	Undergrowth,oak,serviceberry and chokecherry.
	Good grass and shrubbery for grazing except in bed of volcanic rocks.

Fractional North Boundary of Tp.34 S.,R.7 W.

Chains	
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	East on a true line on N.bdy.of sec.1.
	Over mountainous land;through scattering pine and quakingasp timber and dense oak,chokecherry and service-berry undergrowth.
	Descend.
5.00	Enter heavy green and dry pine timber bears N.and S.
	Continue in undergrowth and scattering quakingasp timber.
13.00	Leave heavy timber bears N.and S.
	Continue in scattering timber.
27.45	Trail bears SE and NW.
33.00	Enter heavy quakingasp timber bears N.and S.
36.25	Spring run 1 lk.wide,1 inch deep,course SE.
	Foot of ridge 350 ft.below sec.cor.,bears SE and NW.
	Thence along creek bottom,gradually descending.
37.45	Creek of pure fresh water,3 lks.wide,2 ins.deep,course S.30° E.about 2.00 chs.thence SE.
38.75	Leave creek bottom bears SE and NW.
	Ascend.
39.25	Leave heavy quakingasp timber bears SE and NW.
	Continue in dense undergrowth and scattering timber.
40.00	Set a red sandstone 18x12x6 ins.,12 ins.in the ground for 1/4 cor.sec.1,marked 1/4 on N.face,from which
	A quakingasp 6 ins.dia.bears S.83° W.87.5 lks.dist., marked 1/4 S 1 B T.
	Raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.

Fractional North Boundary of Tp.34 S.,R.7 W.

Chains.	
	1/4 cor.about 50 ft.above creek.
52.00	Top of ridge on S.slope about 250 ft.above 1/4 sec.cor. bears N.and S.
	Descend.
57.00	Bottom of ravine about 75 ft.below top of ridge,course S.
	Ascend.
60.00	Top of ridge 100 ft.above ravine,bears N.and S.
	Descend.
72.55	Ravine 150 ft.below top of ridge,course S.
	Ascend.
75.50	Top of ridge 75 ft.above ravine,bears SE and NW.
	Descend.
80.00	Intersect E.bdy.of Tp.at 80 lks.S.of the tem.cor.for N.E.cor.of Tp.34 S.,R.7 W. and at 28.80 chs.N.of the cor. of secs.1,6,7 and 12.
	Set a granite stone 18x10x10 ins.,12 ins.in the ground for N.E.cor.of Tp.34 S.,R.7 W.,marked with 6 notches on S.and W.edges;from which
	A branch of forked juniper 8 ins.dia.bears S.11 3/4° W.164 lks.dist.,marked T 34 S R 7 W S 1 B T.
	Raise a mound of stone 2 ft.base 1 1/2 ft.high S.W. of cor..
	I destroy all traces of the tem.Tp.cor.
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,quakingasp,pine,mahogany and cedar.
	Undergrowth,oak,chokecherry,serviceberry and sage brush.
	Good grass and shrubbery for grazing..
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 12,1909.

Fractional North Boundary of Tp.34 S.,R.7 W.

Chains	
	August 13,1909:
	At 8^h5^m a.m.l.m.t.;at the old cor.of secs.5,6,31 and 32 on N.bdy.of Tp.as re-established by me for cor.of secs. 31 and 32 only,I set off 37°54' N.on the lat.arc;14° 46' N.on the decl.arc;and determine a meridian with the solar .
	Thence I run
	West on a random line bet.secs.6 and 31.
40.00	Set temp.1/4 sec.cor.for sec.31.
98.58	Intersect W.bdy.of Tp.at S.1°20' W.,3.95 chs.dist., from the old cor.of Tps.33 and 34 S.,Rs.7 and 8 W., heretofore described.
	As the falling S.of the old.cor.is not within the prescribed limits of 21' of arc.,I establish my random as a true line,and at the intersection with W.bdy.of Tp. Set a limestone 24x12x6 ins.,18 ins.in the ground,for closing cor.of Tps.33 and 34 S.,R.7 W.,marked with 6 grooves on N.,S.and E.faces and C C on E.face;from which
	A double nut pine 8 ins.dia.bears S.15 1/2°E.58.5 lks.dist.,marked T 34 S R 7 W S 6 B T.
	A nut pine 8 ins.dia.bears N.43° E.36 lks.dist.,mkd. T 33 S R 7 W S 31 B T.
	I destroy all marks on the old cor.pertaining to Tps. 33 and 34 S.,R.7 W.
	August 13,1909:At this closing cor.I set off 14°43'N. on the decl .arc;and at 12^h5^mp.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°54' N., which is the proper lat.nearly.
	Thence I run
	East on a true line bet.secs.6 and 31.
	Over mountainous land;through heavy cedar and pine timber, and dense oak,serviceberry,chokecherry and sage brush undergrowth.
	Ascend abruptly over a series of broken ledges.

Fractional North Boundary of Tp.34 S.,R.7 W.

Chains.	
28.50	Top of ridge about 500 ft.above the Tp.closing cor. bears N.and S.
	Descend.
38.00	Ravine 100 ft.below top of ridge,course SE.
	Ascend.
50.50	Top of ridge 125 ft.above ravine bears N.and S.
	Leave heavy and enter scattering timber bears N.and S.
	Descend.
58.58	Set a trachyte stone 18x8x7 ins.,12 ins.in the ground for 1/4 cor.sec.31,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;no bearing trees within limits.
	Cor.about 100 ft.below top of ridge.
87.30	Ravine 100 ft.below 1/4 sec.cor.,course N.
	Ascend.
98.58	The cor.of secs.31 and 32 on S.bdy.of T.33 S.,R.7 W.
	Land mountainous.
	Soil gravelly and stony;3rd and 4th rate.
	Timber,nut pine and cedar.
	Undergrowth,oak,serviceberry,choke cherry and sage brush.
	Good grass and shrubbery for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 98.58 chs.
	August 13,1909.

Fractional North Boundary of Tp.34 S.,R.7 W.

Boundaries of Tp.34 S.,R.7 W.

Latitudes,departures and closing errors.

Line Designated.		True Bearing.	Distance.	Latitudes.		Departures.	
				North.	South.	East	West.
			Chs.	Chs.	Chs.	Chs.	Chs.
S.Bdy.	T.34 S.R7W.	N86°55'W.	39.03	2.10			38.96
" "	" " " " " "	N.87°30'W.	39.01	1.70			38.96
" "	" " " " " "	N.88°20'W.	40.14	1.17			40.12
" " "	" " " " " "	N86°50'W.	39.58	2.19			39.51
" "	" " " " " "	N87°20'W.	39.94	1.86			39.90
" "	" " " " " "	N87°50'W.	40.05	1.51			40.02
" "	" " " " " "	N87°30'W.	42.42	1.85			42.38
" "	" " " " " "	S87°10'W.	124.20		6.14		124.05
" "	" " " " " "	N89°30'W.	80.80	.71			80.80
" "	" " " " " "	West	66.04				66.04
W.Bdy.	T 34 S R7W.	North	29.12	29.12			
" "	" " " " " "	N.20°15' E.	41.05	41.02		1.61	
" "	" " " " " "	N.10°45'E.	39.24	39.22		1.20	
" "	" " " " " "	N.0°24'W.	39.86	39.86			.28
" "	" " " " " "	N.20°50'W.	39.09	39.04			1.93
" "	" " " " " "	N.0°43'W.	40.83	40.83			.51
" "	" " " " " "	N.1°20'E.	193.25	193.20		4.50	
N.Bdy.	T.34S.R7W.	East	98.58			98.58	
" "	" " " " " "	S.89°22'E.	40.20		.44	40.20	
" "	" " " " " "	N.89°52'E.	40.30	.09		40.30	
" "	" " " " " "	S89°12'E.	40.70		.57	40.70	
" "	" " " " " "	N89°47'E.	40.35	.15		40.35	
" "	" " " " " "	N89°41'E.	40.70	.23		40.70	
" "	" " " " " "	N89°34'E.	40.40	.31		40.40	
" "	" " " " " "	East	205.00			205.00	
E.Bdy.	T34S.,R7W.	South	428.80		428.80		
Convergency						.57	
Totals				436.16	435.95	554.11	553.46
				435.95		553.46	
Error in Latitude				.21			
Error in Departure						.65	

Fractional North Boundary of Tp.34 S.,R.7 W.

GENERAL DESCRIPTION:

For General Description see notes of the subdivision of this Township.

Mayhew H. Dalley,

August 13,1909. U.S. Deputy Surveyor.

Corrective Survey commenced March.3,1910,and executed with the Instrument used in the Retracement of the South West and Fractional North Boundaries of this Township and described in the original field notes of the Retracement of the South Boundary of T.34 S.,R.7 W.

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

March 3,1910:At the old cor.of secs.2,3,34 and 35 Tps.33 and 34 S.,R.7 W.,remarked by me as the cor.of secs.34 and 35 T.33 S.,R.7 W.,only,heretofore described, latitude 37°54' [illegible]" N.,longitude 112°36' 01" W.,at 3^h 12^m p.m.,l.m.t.,I set off 37°54' N.on the lat.arc; 6° 51' S.on the decl.arc.;and determine a meridian with the solar and mark a point thereof on a stone set firmly in the ground 5.00 chs.N.of the corner.

March 3,1910:At $8^h38.9^m$ p.m.,l.m.t.,I observe Polaris at Western Elongation in accordance with the Manual of Instructions,and mark a point in the line thus determined by a groove cut in a wooden plug driven in the ground 5.00 chs.N.of my station.

March 3,1910.

March 4,1910:At 8^h a.m.,l.m.t.,I lay off the azimuth of Polaris 1°30' to the East and mark the meridian thus determined by a tack driven in the plug already set 5.00 chs. N.of my station,on which the meridian falls

Corrective Survey of Fractional North Boundary of T. 34 S., R. 7 W.

Chains.

0.35 ins. W. of the mark determined by the solar.

At 9h 12m a.m., l.m.t., I set off 37°53' N. on the lat. arc; 6°34' S. on the decl. arc; and mark a point in the meridian determined by the solar by a groove cut on the wooden plug already set 5.00 chs. N. of my corner; this mark falls 0.25 ins. W. of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 18" E. and 13" W. of the meridian established by Polaris observation; therefore, I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 9h30m a.m., is N. 16°31' W.; the angle thus determined gives the magnetic decl. 16°31' E.

From the cor. of secs. 34 and 35, T. 33 S., R. 7 W., heretofore described, I run

Original on p. 12 back

East on a true line on N. bdy. of E. part of Sec. 3

5.00 The 1/4 sec. cor. on N. bdy. sec. 3.

15.00 Set a lava stone 22x10x5 ins., 17 ins. in a mound of stone in bed of volcanic rocks for re-established cor. of secs. 2 and 3, marked with 4 notches on the W. and 2 notches on the E. edges, from which

A quakingasp 8 ins. dia. bears S. 50 1/2° E. 202 lks. dist., marked T. 34 S., R. 7 W S 2 B T.

A quakingasp 5 ins. dia. bears S. 88 3/4° W. 43 lks. dist., marked T. 34 S R 7 W S 3 B T.

The cor. of secs. 2 and 3 set in the original survey of this bdy. bears N. 50 E. 33 lks. dist., I destroy all traces of this original corner.

Corrective survey of Fractional North Boundary of T.34 S.,R.7 W.

Chains.

Note:-There is no change in the topography of this line from that given in the original notes thereof.

From the re-established cor.of secs.2 and 3,I run East on a true line on the N.bdy.of sec.2.

40.00 The 1/4 sec.cor.on N.bdy.of sec.2 at foot of Little Creek Peak,as heretofore described,on my line.

80.00 The cor.of secs.1 and 2,heretofore described on my line.

Note:-There is no change in topography from that given in the original notes of this survey.

March 4,1910:At this cor.I set off 60°38' S.on the decl.arc;and at 0h12m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 58' N.,which is the proper latitude nearly.

March 4,1910.

Mayhew H. Dalley

U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the E. bdy. and Fractl. N. bdy. of T. 34 S., R. 7 W., of the Salt Lake Base and Meridian, showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
James Tweedie, *Moundman.*
Erastus Macfarlane, *Moundman.*
James Tweedie, *Axman.*
Bert Nelson, *Axman.*
Menzies Macfarlane, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all those parts or portions of the E. bdy. and Fractl. N. bdy. of T. 34 S., R. 7 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Maeser Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
James Tweedie, *Moundman.*
Erastus Macfarlane, *Moundman.*
James Tweedie, *Axman.*
Bert Nelson, *Axman.*
Menzies Macfarlane, *Flagman.*

Subscribed and sworn to before me this 10th. day of September, 1909.

Senora C. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, d solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of th 11th day of April, 19 01, I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Surveyo General for Utah, the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of the E.bdy. and fractl. N.bdy. of T. 34 S., R. 7 W.

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

Mayhew H. Dalley
United States Deputy Surveyo

Subscribed by said Mayhew H. Dalley, and sworn to before me this 30th day of November, 19 09.

Wm G Morris
County Clerk, Iron County, Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 19

The foregoing field notes of the survey of

executed by

under his contract No. , dated , 19 , having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

United States Surveyor Gener

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

United States Surveyor Gener

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the Corrective survey of Fractl. N.Bdy.of T.34 S.,R.7 W.,of the Salt Lke Base and Meridian, showing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*
Arthur Pratt, *Chainman.*
Maeser Dalley, *Moundman.*
Arthur Pratt, *Moundman.*
Maeser Dalley, *Axman.*
Arthur Pratt, *Axman.*
Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H.Dalley, United States Deputy Surveyor, in Corrective surveying all those parts or portions of the Fractional North Boundary of T.34 S.of R. 7 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Maeser Dalley, *Chainman.*
Arthur Pratt, *Chainman.*
Maeser Dalley, *Moundman.*
Arthur Pratt, *Moundman.*
Maeser Dalley, *Axman.*
Arthur Pratt, *Axman.*
Flagman.

Subscribed and sworn to before me this 10th. day of March, 1910

SEAL

My Commission Expires May.16th, A. D. 1911.

Senora C. Dalley
Notary Public, Iron County, Utah.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 11th. day of April, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for UTAH, the Manual of Surveying Instructions, and the laws of the United States, Corrective surveyed all those parts or portions of Fractl. North Bdy. of T. 34 S., R. 7 W.

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

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me this 10 day of March, 1910

Wm T. Morris
County Clerk

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 25, 1911.

The foregoing field notes of the survey of the East and Fractional North Boundaries of Township No. 34 South, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General

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

United States Surveyor General

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BOOK A-358

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 34 South, Range No. 7 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Mayhew R. Dalley, *United States Deputy Surveyor,*

Under his Contract No. 241, *dated* April 11th, *19* 01

Survey commenced August 13, *19* 09.

Survey completed March 4, *19* 10.

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BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

1909:	Maeser Dalley,	Chainman.
	Edward H.Parry,	Chainman.
	James Tweedie,	Moundman.
	Erastus Macfarlane	Moundman.
	James Tweedie,	Axman.
	Bert Nelson,	Axman.
	Menzies Macfarlane	Flagman.
1910		
	Maeser Dalley	Chainman
	Arthur Pratt	Chainman
	Maeser Dalley	Moundman
	Arthur Pratt	Moundman
	Maeser Dalley	Axman
	Arthur Pratt	Axman

BOOK A-358

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Maeser Dalley and Edward H. Parry do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision of T.34 S., R.7 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Chainman.
Edward H Parry, Chainman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Sessora C Dalley
Notary Public.

WE, James Tweedie and Erastus Macfarlane do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivision of T.34 S., R.7 W., of the Salt Lake Base and Meridian.

James Tweedie Moundman.
Erastus Macfarlane, Moundman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Sessora C Dalley
Notary Public.

WE, James Tweedie and Bert Nelson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Subdivision of T.34 S., R.7 W., of the Salt Lake Base and Meridian.

James Tweedie, Axman.
Bert Nelson, Axman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Sessora C Dalley
Notary Public.

I, Menzies Macfarlane, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision of T.34 S., R.7 W., of the Salt Lake Base and Meridian.

Menzies Macfarlane, Flagman.

Subscribed and sworn to before me this 30th. day of July, 1909.

SEAL

My Commission Expires May 16th, A. D. 1911.

Sessora C Dalley
Notary Public.

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BOOK A-358

INDEX DIAGRAM.

Township 34 South, *Range* 7 West, S.L.Mer.

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Meanders Page .....

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley and Arthur Pratt do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the Corrective survey of Subdivision of T.34 S.,R.7 W.of the Salt Lake Base and Mer.

Maeser Dalley, Chainman.
Arthur Pratt, Chainman.

Subscribed and sworn to before me this 2nd. day of March, 1910.

SEAL My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public, Iron County, Utah.

We, Maeser Dalley and Arthur Pratt do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the Corrective survey of the Subdivision of T.34 S.,R.7 W.,of the Salt Lake Base and Mer.

Maeser Dalley, Moundman.
Arthur Pratt, Moundman.

Subscribed and sworn to before me this 2nd. day of March, 1910.

SEAL My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public, Iron County, Utah

We, Maeser Dalley and Arthur Pratt do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the Corrective survey of the Subdivision of T.34 S.R.7 W.of the Salt Lake Base and Meridian.

Maeser Dalley, Axman.
Arthur Pratt, Axman.

Subscribed and sworn to before me this 2nd. day of March, 1910.

SEAL My Commission Expires May 16th, A. D. 1911.

Senora C. Dalley
Notary Public, Iron County, Utah.

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

....., Flagman.

Subscribed and sworn to before me this ..... day of ....., 19

SEAL

6—151

Subdivision of T.34 S.,R.7 W.

Chains.

Survey commenced August 13,1909,and executed with a W.and L.E.Gurley Light Mountain Solar Transit No.31, provided with R.M.Jones double latitude arc,and reversible level bubble.

The horizontal limb is provided with two double verniers,placed opposite to each other,which read to single minutes of arc;the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds respectively.

The instrument was examined,tested on the True Meridian,at Salt Lake City,Utah,found correct,and was approved by the Surveyor General for Utah,July 27,1901.

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

August 13,1909:I return to the meridian establised August 2,1909,at the cor.of Tps.34 and 35 S.,Rs.6 and 7 W.,as described in the notes of the Retracement of the South bdy.of this Tp.,lat.37°48'37" N.,long.112°33'13"W., at 4h5m p.m.,l.m.t.,I set off 37°49' N.on the lat.arc; 14°46' N.on the decl.arc;and determine a meridian with the solar and mark the point thereof on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.38 ins.W.of the mark for the meridian established by Polaris observation August 2,1909.

August 13,1909.

Subdivision of T.34 S.,R.7 W.

Chains.

August 14,1909:At 8h5m a.m.l.m.t.,I set off 37°49' N.on the lat.arc;14°28' N.on the decl.arc;and determine a meridian with the solar and mark the point thereof on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.32 ins.E.of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about 0°20' W.and 0°17'E.,of the meridian established by Polaris observation;therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h15m a.m., is N.16°33' W.;the angle thus determine gives the mag. decl.16°36' E.

Note:-The South Boundary of this Township is out of limits in alinement and measurement;I therefore deem it necessary to run a Sectional Correction Line W.from the cor.of secs.25,30,31 and 36;

August 14,1909;At this cor.I set off 37°49' N.on the lat.arc;14°27' N.on the decl.arc;and at 9h.5m a.m. l.m.t.,determine a meridian with the solar.

Thence I run

West on Sectional Correction Line bet.secs.25 and 36.

Over mountainous land;through heavy quakingasp timber, and dense oak,serviceberry and chokecherry undergrowth.

Ascend.

3.75 Top of ridge about 75 ft.above sec.cor.bears S.and N. 70° E.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Leave quakingasp timber bears N.and S.
	Descend.
8.00	Enter scattering mahogany bears N.and S.
21.50	Ravine about 300 ft.below ridge,course N.20° W.
	Ascend.
31.00	Top of ridge 150 ft.above ravaine,bears NW and SE.
	Descend.
33.00	Leave mahogany bears NW and SE.
40.00	Set a volcanic stone 12x10x6 ins.,8 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.
58.00	Old shearing corrall about 150 lks.wide E.and W.by about 100 lks.wide N.and S.
63.50	Road to Panguitch bears SE and NW.
75.50	Old road bears NE.and SW.
77.00	Creek about 2 lks.wide,2 ins.deep,in hollow,about 200 ft.below ridge,course SW.
	Ascend.
80.00	Set a volcanic stone 18x12x7 ins.,12 ins.in the ground, for cor.of secs.25,26,35 and 36,marked with 1 notch on S.and 1 notch on E.edges;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous and rolling.
	Soil gravelly and stony;2nd.and 3rd.rate.
	Timber,aspen and mahogany.
	Undergrowth,oak,serviceberry,chokecherry and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth from 80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	West on Sectional Correction Line bet.secs.26 and 35.
	Over rolling ground;through dense oak,serviceberry,sage and choke cheery undergrowth.
	Gradually ascend.
40.00	Set a volcanic stone 16x10x8 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.
	August 14,1909:At the noon hour the sky is overcast and lat.observation impracticable.
53.00	Top of ridge 100 ft.above sec.cor.bears NE and SW.
	Descend.
74.00	Ravine 75 ft.below top of ridge,course S.25° E.
	Enter scattering quakingasp timber bears N.W.and SE.
	Ascend.
80.00	Set a volcanic stone 15x10x8 ins.,10 ins.in the ground, for cor.of secs.26,27,34 and 35,marked with 2 notches on the E.and 1 notch on the S.edges;from which
	A quakingasp 6 ins.dia.bears N.21o E.215 lks.dist. marked T 34 S R 7 W S 26 B T.
	A quakingasp 4 ins.dia.bears S.12 1/4° W.147 lks. dist.,marked T 34 S R 7 W S 34 B T.
	A quakingasp 10 ins.dia.bears N.19 1/2° W.166 lks. dist.,marked T 34 S R 7 W S 27 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous and rolling.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,scattering quakingasp on W.6.00 chs.
	Undergrowth,sagebrush,oak,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth to 80.00 chs.

Subdivision of T.34 S., R.7 W.

Chains.	Corner about 125 ft. above ravine.
	West on Sectional Correction Line bet. secs. 27 and 34.
	Over mountainous land; through scattering quakingasp timber, and dense oak, serviceberry, sage and chokecherry brush.
	Ascend.
5.00	Top of ridge about 150 ft. above sec. cor., bears N. and S.
	Descend.
15.00	Foot of ridge about 150 ft. belop top of ridge, bears N. and S.
	Leave scattering quakingasp timber bears N. and S.
	Leave dense undergrowth bears N. and S.
	Thence over nearly level land.
16.15	Fence bears N. and S.
	Enter pasture and meadow.
23.45	Creek in meadow 10 lks. wide, 4 ins. deep, clear water, slow current, course S. 20° E.
40.00	Set a volcanic stone 15x10x8 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 impracticable.
	William Tebb's cabin bears N. 0°30' W. about 14.00 chs. dist.
	Corral about 5.00 chs. SW. of cabin.
	Springs adjoining cabin on the E. and NE.
44.65	Fence bears N. and S.
	Leave pasture and meadow.
44.75	Enter dense sage brush, oak and serviceberry undergrowth, bears N. and S.
45.00	Road bears N. and S.
60.00	Begin ascent of ridge bears S.E. and NW.
66.00	Top of ridge about 100 ft. high bears SE. and NW.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend.
75.00	Swale 25 ft.below top of ridge course SE.
	Enter quakingasp,pine and mahogany timber bears SE and NW.
	Ascend.
80.00	Set a sandstone 20x12x6 ins.,15 ins.in the ground for cor of secs.27,28,33 and 34,marked with 3 notches on the E.and 1 notch on the S.edges;from which
	A quakingasp 6 ins.dia.bears N.23° E.107 lks.dist., marked T 34 S.R 7 W S 27 B T.
	A yellow pine 30 ins.dia.bears S.57° E.286 lks.dist. marked T 34 S R 7 W S 34 B T.
	A quakingasp 10 ins.dia.bears S.12 3/4°W.283 lks.dist. marked T 34 S R 7 W S 33 B T.
	A mahogany 6 ins.dia.bears N.49 1/2°W.158 lks.dist., marked T 34 S R 7 W S 28 B T.
	Corner about 25 ft.above swale.
	Land mountainous and nearly level valley.
	Soil;rich loam in meadow and pasture;gravelly on the ridges;1st.and 3rd.rate.
	Timber,scattering quakingasp,pine and mahogany.
	Undergrowth,sage brush,oak,serviceberry and chokecherry.
	Good grass.for grazing;good pasturage and hay crop in pasture and meadow.
	Mountainous land or land covered with dense undergrowth 50.25 chs.
	August 14,1909.

Subdivision of T.34 S.,R.7 W.

Chains	
	August 16,1909: At 10h4m a.m.,l.m.t.,I set off 37° 49' N.on the lat.arc;13°49' N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.27, 28,33 and 34.
	Thence I run
	West on Sectional Correction Line bet.secs.28 and 33.
	Over mountainous land;through dense mahogany and scattering pine and quakingasp timber,and dense oak brush.
	Ascend.
30.00	Top of ridge about 200 ft.above the sec.cor.bears N.70° W.and S.70° E.
40.00	Set a white sandstone 20x8x4 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 14 ins.dia.bears N.37 1/4° E.64 lks.dist., marked 1/4 S 28 B T.
	A mahogany 6 ins.dia.bears S.37 1/2°E.130 lks.dist., marked 1/4 S 33 B T.
52.00	Ravine.150 ft.below top of ridge ,course SE.
	Ascend.
60.65	Top of ridge about 200 ft.above ravine,bears SE and NW.
	Descend.
75.75	Ravine about 300 ft.below top of ridge,course S.10° E.
	Ascend.
78.50	Leave quakingasp and dense mahogany and enter scattering mahogany bears N.and S.
80.00	Set a volcanic stone 20x12x10 ins.,15 ins.in the ground, for cor.of secs.28,29,32 and 33,marked with 4 notches on the E.and 1 notch on the S.edges;from which
	A quakingasp 6 ins.dia.bears N.62° E.145 lks.dist., marked T 34 S R 7 W S 28 B T.
	A quakingasp 6 ins.dia.bears S.81 1/2° E.180 lks. dist.,marked T 34 S R 7 W S 33 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.

Subdivision of T.34 S.,R.7 W.

Chains.

Pits impracticable.

Land mountainous.

Soil,gravelly and stony;3rd.and 4th.rate.

Timber,quakingasp,pine and mahogany.

Undergrowth,mahogany and oak.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

August 16,1909:At this cor.I set off 13°47' N.on the decl.arc.;and at 10h4m p.m.,observe the sun on the meridian;the resulting lat.is 37°49' N.,which is the proper lat.nearly.

West on Sectional Correction Line bet.secs.29 and 32.

Over mountainous land;through dense oak undergrowth.

Ascend.

5.25 Enter heavy quakingasp and pine timber and dense mahogany,bears N.and S.

25.50 Top of ridge 300 ft.above sec.cor.,bears N.10° E.and S. 10° W.

Descend.

40.00 Set a volcanic stone 20x10x4 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which

A balsam 8 ins.dia.bears S.77° W.12 lks.dist., marked 1/4 S 32 B T.

A balsam 16 ins.dia.bears N.43 1/2° E.35 lks.dist., marked 1/4 S 29 B.T.

45.25 Creek 1 link wide ,2 ins.deep,course N.

47.75 Creek 2 lks.wide.2 ins.deep,course N.

Subdivision of T.34 S.,R.7 W.

Chains.

Swale 150 ft.below top of ridge bears N and S.

Ascend.

80.00 Set a sandstone 18x10x8 ins.,12 ins.in the ground,for cor.of secs.29,30,31 and 32,marked with 5 notches on the E.and 1 notch on the S.edges;from which

A quakingasp 5 ins.dia.bears N.43 3/4° E.16 lks.dist. marked T 34 S R 7 W S 29 B T.

A quakingasp 5 ins.dia.bears S.46 1/4° E.29 lks.dist. marked T 34 S R 7 W S 32 B T.

A quakingasp 5 ins.dia.bears S.31 1/2° W.44 lks.dist., marked T 34 S R 7 W S 31 B T.

A quakingasp 5 ins.dia.bears N.38 1/4° W.165 lks.dist. marked T 34 S R 7 W S 30 B T.

Land mountainous.

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

Timber,quakingasp,pine,balsam and mahogany.

Undergrowth,mahogany and oak.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

August 16,1909.

August 17,1909:At 9h4m a.m.,l.m.t.,I set off 37°49' N.on the lat.arc;13°31' W.on the decl.arc;and determine a meridian with the solar at the cor.of secs.29,30,31 and 32.

Thence I run.

West on Sectional Correction Line bet.secs.30 and 31.

Over mountainous land;through heavy pine and quakingasp timber and dense oak undergrowth.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Gradually ascend.
16.65	Road bears N.30° E.and S.30° W.
21.65	Road bears N.E.and SW.
	Top of ridge 75 ft.above sec.cor.,bears N.and S.
	Descend.
40.00	Set a volcanic stone 15x10x5 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A quakingasp 6 ins.dia.bears N.41° E.26 lks.dist., marked 1/4 S 30 B T.
	A quakingasp 6 ins.dia.bears S.26 3/4° E.34.5 lks. dist.,marked 1/4 S 31 B T.
43.40	Creek 2 lks.wide,2 ins.deep,in bottom of ravine 150 ft. below top of ridge,course N.70° W.
	Ascend.
52.70	Old road bears NE and SW.
60.50	Top of ridge 150 ft.above creek bears N.and S.
77.80	Road bears N.and S.
	August 17,1909:At this point on line the sky is overcast at the noon hour and solar observations are impossible.
78.75	Bottom of hollow 75 ft.below top of ridge,course N.
	Ascend.
115.50	Top of ridge about 200 ft.above bottom of hollow,bears N.and S.
	Descend.
122.00	Bottom of hollow,100 ft.below top of ridge,course N.
	Ascend.
137.50	Top of ridge about 400 ft.above hollow,bears N.and S.
143.00	Descend over ledges 75 ft.high bears N.and S.
149.14	Intersect W.bdy.of Tp.at N.1°45' E.3.15 chs.dist., from the 1/4 sec.cor.on E.bdy.of sec.25,heretofore described.
	Set a volcanic stone 18x10x5 ins.,12 ins.in the ground, for closing cor.of secs.30 and 31,marked with 1 groove on S.and 5 grooves on N.faces,with C.C.on E.face;

Chains. from which

A quakingasp 5 ins.dia.bears N.16 1/2° E.39 lks. dist.,marked T 34 S R 7 W S 30 B T.

A quakingasp 5 ins.dia.bears S.55 3/4° E.15 lks.dist., marked T 34 S R 7 W S 31 B T.

Land mountainous.

Soil gravelly and stony;2nd.and 3rd.rate.

Timber,pine and quakingasp.

Undergrowth,oak and serviceberry with birch and willows along the creek.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 149.14 chs.

August 17,1909.

August 18,1909:At 8h4m a.m.,l.m.t.,I set off 37°49' N.on the lat.arc;13°12' N.on the decln.arc;and determine a meridian with the solar at the cor.of secs.25,26,35 and 36,heretofore described.

Thence I run

S.001' E.bet.secs.35 and 36.

Over low ridges;through dense oak,serviceberry and choke cherry and sage undergrowth.

Descend gradually.

3.45 Creek in hollow 25 ft.below sec.cor.,2 lks.wide and 2 ins.deep,course S.65° W.

Ascend gradually.

4.30 Road bears NE and SW.

29.15 Top of ridge 150 ft.above creek,bears E.and W.

Descend.

38.60 Hollow 100 ft.below top of ridge,course S.75° W.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Ascend.
40.00	Set a volcanic stone 14x10x6 ins.,10 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
47.85	Top of ridge,200 ft.above hollow bears E.and W.
	Descend.
61.85	Bottom of hollow 75 ft.below top of ridge,with small creek creek 1 lk.wide,1 inch deep,course W.
	Ascend.
75.00	Top of ridge about 200 ft.above Hollow,bears E.and W.
	Descend.
76.20	Intersect S.bdy.of Tp.N.88°20' W.2.06 chs.dist.from the old cor.of secs.1,2,35 and 36,heretofore described. Set a volcanic stone 24x14x4 ins.,18 ins.in the ground, for closing cor.of secs.35 and 36,marked with 1 groove on E.and 5 grooves on W.faces with C C on N.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
	Pits impracticable.
	Note:-I destroy all marks on the old cor.pertaining to secs.35 and 36.
	Land mountainous and rolling.
	Soil,gravelly loam and stony;2nd.and 3rd.rate.
	No timber.
	Undergrowth,sage,oak,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	76.20 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	From the cor.of secs.25,26,35 and 36,heretofore described,
	I run
	N.0° 01' W.bet.secs.25 and 26.
	Through dense oak and sage brush undergrowth.
	Gradually ascend.
10.00	Top of spur about 30 ft.above the sec.cor.bears SE and NW.
	Descend gradually.
19.00	Road to Panguitch bears S.20° E.and N.20° W.
	Hollow about 25 ft.below spur,course S.20° E.
	Ascend.
33.20	Enter scattering quakingasp timber bears E.and W.
	Top of ridge about about 75 ft.above hollow,bears NE&SW.
	Descend.
38.20	Ravine 25 ft.deep,course SW. Continue descent.
39.00	Leave quakingasp timber and enter scattering mahogany bears NE and SW.
40.00	Set a granite stone 16x8x4 ins., 11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A mahogany 12 ins.dia.bears N.12 1/4°E.102 lks.dist., marked 1/4 S 25 B T.
	A quakingasp 10 ins.dia.bears S.17°W.108 lks.dist., marked 1/4 S 25 B T.
54.50	Wash at bottom of hollow 150 ft.below top of ridge, course S.50° W.
	Ascend.
74.40	Top of ridge about 150 ft.above hollow,bears N.70° E. and S.70° W.
	Descend.
80.00	Set a granite stone 15x8x5 ins.,11 ins.in the ground, for cor.of secs. 23,24,25 and 26,marked with 2 notches on S and 1 notch on E.edges;and raise a mound of stone

Subdivision of T.34 S.,R.7 W.

Chains	2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous and rolling.
	Soil gravelly;2nd.rate.
	Timber,scattering quakingasp and mahogany.
	Undergrowth,oak and sage brush and small mahogany.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	80.00 chs.
	August 18,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.
	East on a random line bet.secs.24 and 25.
40.00	Set temp.1/4 sec.cor.
79.98	Intersect E.bdy.of Tp.28 lks.N.of the cor.of secs.24, 25,19 and 30,heretofore described.
	Thence I run
	N.89°48' W.on a true line bet.secs.24 and 25.
	Over mountainous land;through scattering cedar and pine timber,and oak,mahogany,serviceberry and choke cherry undergrowth.
8.75	Ravine 100 ft.below sec.cor.,and wash 15 lks.wide,6 ft deep,course NE.
	Creek in bottom of wash 1 lk.wide 3 ins.deep,course NE.
	Ascend.
39.99	Set a granite stone 24x14x5 ins.,18 ins.in mund of stone for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A nut pine 8 ins.dia.bears S.3 1/2° E.152 lks.dist., marked 1/4 S.25 B.T.

Subdivision of T.34 S.,R.7 W.

Chains.	
	A mahogany 6 ins.dia.bears N.48° E.53 lks.dist., marked 1/4 S 24 B T.
60.00	Ravine 50 ft.deep,course SE.
	Enter heavy quakingasp timber bears SE and NW.
	Continue ascent.
63.75	Leave heavy quakingasp timber bears SE and NW.
68.75	Top of ridge 400 ft.above ravine noted at 8.75 chs., bears N.30° E.and S.30° W.
	Leave all timber bears N.30° E.and S.30° W.
	Descend.
79.98	The cor.of secs.23,24,25 and 26,at about 75 ft.below top of ridge.
	Land mountainous.
	Soil,stony and gravelly;4th.and 3rd.rate.
	Timber,quakingasp,mahogany and pine,and few cedars.
	Undergrowth ,oak,sage,mahogany,chokecherry and service berry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 79.98 chs.
	August 18,1909.

August 19,1909:At $10^h 4^m$a.m.,l.m.t.,I set off 37°50' N.on the lat.arc;12°51' N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.23,24,25 and 26.

Thence I run

N.0°01' W.bet.secs.23 and 24.

Over mountainous land;through dense oak,sage and service berry undergrowth.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend.
5.50	Hollow 75 ft.below sec.cor.,course S.75° W.
	Ascend.
40.00	Set a volcanic stone 24x12x5 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 1 1/2 ft.high W.of cor.
	Pits impracticable.
42.00	Top of ridge 150 ft.above hollow,bears E.and W.
	Descend.
54.00	Enter scattering pine and mahogany timber bears E.and W.
61.00	Ravine 100 ft.below top of ridge,course S.75° W.
	Ascend.
80.00	Set a volcanic stone 20x8x6 ins.,15 ins.in the ground, for cor.of secs.13,14,23 and 24,marked with 3 notches on the S.and 1 notch on the E.edges;from which
	A mahogany 8 ins.dia.bears N.75° E.149 lks.dist., marked T 34 S R 7 W S 13 B T.
	A mahogany 10 ins.dia.bears S.71 1/2° E.19 lks.dist., marked T 34 S R 7 W S 24 B T.
	A mahogany 8 ins.dia.bears S.60 1/2° W.205 lks.dist., marked T 34 S R 7 W S 23 B T.
	A mahogany 6 ins.dia.bears N.19° W.112 lks.dist., marked T 34 S R 7 W S 14 B T.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,scattering pine and mahogany.
	Undergrowth,oak,sage and serviceberry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.00 chs.
	August 19,1909:At this cor.the sky is overcast at the noon hour and latitude observation impossible.

Subdivision of T.34 S.,R.7 W.

Chains.	
	S.89°48' E.on a random line bet.secs.13 and 24.
40.00	Set temp.1/4 sec.cor.
80.02	Intersect E.bdy.of Tp.9 lks.S.of the cor.of secs.13,24, 18 and 19,heretofore described.
	Thence I run
	N.89°52' W.on a true line bet.secs.13 and 24.
	Over mountainous land;through scattering pine timber and dense oak and mahogany brush.
	Ascend rapidly.
33.00	Top of steep ascent,about 350 ft.above sec.cor.bears N. and S. Enter scattering quakingasp timber bears N.and S.
	Ascend more gradually.
40.01	Set a volcanic stone 18x13x4 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face; from which
	A quakingasp 6 ins.dia.bears S.12 1/2° E.128 lks.dist., marked 1/4 S 24 B T.
	No other trees within limits;raise a moind of stone 2 ft.base 1 1/2 ft.high N.of cor.
	Pits impracticable.
45.00	Enter heavy quakingasp timber bears N.and S.
57.00	Top of ridge bears N.30° E.and S.30° W.
	Leave heavy quakingasp timber bears N.30° E.and S.30° W.
	Continue in dense oak and scattering mahogany.
	Thence over nearly level plateau.
	Ascend gradually.
78.00	Top of ridge about 30 ft.high bears S.20° E.and N.40° W.
	Descend.
80.02	The cor.of secs.13,14,23 and 24,about 30 ft.below ridge.
	Land mountainous,and almost level plateau.
	Soil,loam and gravelly;2nd.and 3rd.rate.
	Timber,pine,quakingasp and mahogany.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Undergrowth oak and scrubby mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 80.02 chs.
	N.0°01' W.bet.secs.13 and 14.
	Over mountainous land;through mahogany timber and dense oak undergrowth.
	Ascend.
1.50	Top of flat ridge or plateau about 30 ft.above the sec. cor.bears SE and NW.
	Thence gradually ascend along flat top of mountain.
22.00	Top of ascent about 50 ft.above top of flat ridge, and descend over N.slope of ridge bears N.75° E.and S. 75° W.
	Enter heavy pine and balsam timber bears E.and W.
37.50	Ravine about 350 ft.below top of flat ridge or plateau, course NE.
	Ascend.
40.00	Set a volcanic stone 18x10x6 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A balsam 12 ins.dia.bears N.33° E.8.5 lks.dist., marked 1/4 S 13 B T.
	A balsam 7 ins.dia.bears S.58° W.10 lks.dist., marked 1/4 S 14 B T.
42.10	Spur 75 ft.high bears E.and W.
	Descend.
46.00	Ravine 150 ft.below top of spur,course N.70° E.
	Ascend.
50.75	Top of spur 150 ft.above ravine,bears E.and W.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend.
74.85	Creek in hollow 200 ft.below spur,clear water,5 lks. wide,2 ins.deep,course S.75° E.
	Ascend.
	Leave heavy pine and balsam timber and enter scattering pine and cedar timber and mahogany brush, bears SE and NW.
80.00	Set a volcanic stone 20x8x8 ins.,15 ins.in the ground, for cor.of secs.11,12,13 and 14,marked with 4 notches on the S.and 1 notch on the E.edges;from which
	A red cedar 8 ins.dia.bears N.69 1/2° E.139 lks. dist.,marked T.34 S R 7 W S 12 B T.
	A mahogany 6 ins.dia.bears S.14 1/2° E.67 lks.dist., marked T 34 S R 7 W S 13 B T.
	A red cedar 12 ins.dia.bears S.4° W.75 lks.dist., marked T 34 S R 7 W S 14 B T.
	A mahogany 8 ins.dia.bears N.89° W.89 lks.dist., marked T 34 S R 7 W S 11 B T.
	Corner about 125 ft.above creek.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,pine balsam and mahogany.
	Undergrowth,oak,scrubby mahogany,with birch and willows along creek.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 19,1909.

Subdivision of T.34 S.,R.7 W.

Chains	
	August 20,1909:At 8h 3m a.m.l.m.t.,I set off 37°52'N.
	on the lat.arc;12°33'N.on the decl.arc;and determine
	a meridian with the solar at the cor.of secs.11,12,
	13 and 14.
	Thence I run
	S.89°52' E.on a random line bet.secs.12 and 13.
40.00	Set temp.1/4 sec.cor.
80.00	Intersect E.bdy.of Tp.16 lks.N.of the cor.of secs.12,
	13,7 and 18,heretofore described.
	Thence I run
	N.89°45' W.on a true line bet.secs.12 and 13.
	Over mountainous land;through scattering pine,balsam and
	mahogany timber and serviceberry,oak and chokecherry
	and sage brush undergrowth. Ascend.
34.40	Top of spur,300 ft.above sec.cor.,bears N.and S.
40.00	Set a volcanic stone 18x10x6 ins.,12 ins.in the ground,
	for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A balsam 6 ins.dia.bears N.32 3/4° E.42 lks.dist.,
	marked 1/4 S 12 B T.
	A balsam 20 ins.dia.bears S.21 1/2° E.79 lks.dist.,
	marked 1/4 S 13 B T.
	[illegible]
	Descend along SW and W.slopes of ridge.
80.00	The cor.of secs.11,12,13 and 14,about 150 ft.below top
	of spur.
	Land mountainous.
	Soil,stony and gravelly;4th.and 3rd.rate.
	Timber,pine,balsam and mahogany.
	Undergrowth,oak,sage brush,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	on 80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	N.0°01' W.bet.secs.11 and 12.
	Over mountainous land;through medium dense mahogany and dense sage and oak undergrowth.
	Ascend..
11.00	Top of ridge about 300 ft.high bears NW and S.80° E.
	Enter heavy pine timber bears E.and W.
	Descend.
22.50	Ravine 200 ft.below top of ridge,course E.
	Ascend.
33.50	Top of spur 100 ft.above ravine,bears N.75° E.and S. 75° W.
	Descend.
37.00	Ravine 100 ft.below top of spur,course SE.
	Ascend.
40.00	Set a volcanic stone 24x8x6 ins.,18 ins.in the ground, for 1/4.sec.cor.,marked 1/4 on W.face; from which
	A mahogany 6 ins.dia.bears N.28 1/2°E.28 lks.dist., marked 1/4 S 12 B T.
	A quakingasp 6 ins.dia.bears S.17 1/4° W.171 lks.dist. marked 1/4 S 11 B T.
45.50	Top of ridge 200 ft.above ravine bears E.and W.
	Descend.
58.50	Ravine 200 ft.below top of ridge,course E.
	Ascend.
75.00	Top of ridge about 400 ft.above ravine,bears E.and W.
	Descend.
80.00	Set a volcanic stone 15x12x4 ins.,10 ins.in the ground, for cor.of secs.1,2,11 and 12,marked with 5 notches on S.and 1 notch on E.edges;from which
	A red pine 8 ins.dia.bears N.10 1/2° E.36 lks.dist., marked T 34 S R 7 W S 1 B T.
	A red pine 12 ins.dia.bears S.73 1/4° E.54 lks.dist. marked T 34 S R 7 W S 12 B T.

Subdivision of T.34 S.,R.7 W.

Chains.	
	A red pine 22 ins.dia.bears S.53 1/4° W.82 lks.dist. marked T 34 S R 7 W S 11 B.T.
	A red pine 12 ins.dia.bears N.41 1/2°W.52 lks.dist., marked T 34 S R 7 W S 2 B T.
	Corner about 75 ft.below top of ridge.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,pine,mahogany and scattering quakingasp.
	Undergrowth,sagebrush and oak.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 20,1909:At this cor.I set off 12°29' N.on the lat arc;and at 10h3mp.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°53' N.,which the proper lat.nearly.

	S.89°45' E.on a random line bet.secs.1 and 12.
40.00	Set temp.1/4 sec.cor.
80.04	Intersect E.bdy.of T^{p}.at 12 lks.N.of the cor.of secs. 1,12,6 and 7,heretofore described.
	Thence I run
	N.89°40' W.on a true line bet.secs.1 and 12.
	Over mountainous land; through scattering cedar and pine timber and mahogany and oak undergrowth.
	Descend.
15.00	Creek in bottom of canon,about 250 ft.below sec.cor., clear fresh water,3 lks.wide,3 ins.deep,course SE.
	Ascend.

Subdivision of T.34 S., R.7 W.

Chains.	
	Enter scattering quakingasp timber bears SE and NW.
30.00	Top of spur about 300 ft.above creek,bears NE and SW.
	Descend.
39.50	Ravine about 150 ft.below top of spur,course NE.
	Ascend.
40.02	Set a volcanic stone 18x10x5 ins.,12 ins.in a mound of stone,for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 6 ins.dia.bears N.64° W.41 lks.dist., marked 1/4 S 1 B T.
	A quakingasp 6 ins.dia.bears S.14 1/4° W.86 lks.dist., marked 1/4 S 12 B T.
55.00	Top of ridge about 200 ft.above ravine,bears NE and SW.
	Enter heavy pine and quakingasp timber bears NE and SW.
	Descend.
61.00	Ravine about 200 ft.below top of ridge,course N.10° E.
	Ascend.
80.04	The cor.of secs.1,2,11 and 12,about 200 ft.above ravine.
	Land mountainous.
	Soil,gravelly and stony;3rd and 4th.rate.
	Timber,pine,quakingasp,scattering cedar and mahogany.
	Undergrowth,scrubby mahogany and oak.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.04 chs.

	N.0°01' W.on a random line bet.secs.1 and 2.
28.25	Intersect N.bdy.of TP.at 6 lks.E.of the cor.of secs. 1 and 2 heretofore described.
	Thence I run
	S.0°08' E.on a true line bet.secs.1 and 2.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Over mountainous land;through quakingasp and mahogany timber and oak and serviceberry undergrowth.
	Ascend.
3.25	Top of ridge about 100 ft.above sec.cor.bearsN50°W&S80°E.
	Descend.
19.25	Creek in bottom of canon about 250 ft.below top of ridge, 2 lks.wide and 2 ins.deep,course S.55° E.
	Leave mahogany and enter heavy pine and quakingasp timber bears E. and W.
	Ascend.
28.25	The cor.of secs.1,2,11 and 12,about 150 ft.above creek.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,quakingasp,pine and mahogany.
	Undergrowth,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 28.25 chs.
	August 20,1909.

August 21,1909:At 8h3m a.m.,l.m.t.,I set off 37°49'N. on the lat.arc;12°14' N.on the decl.arc;and determine a meridian with a solar at the cor.of secs.26,27,34 and 35,heretofore described.

Thence I run

S.6°01' E.bet.secs.34 and 35.

Over mountainous land;through scattering quakingasp timber and oak and serviceberry undergrowth.

Descend gradually.

Subdivision of T.34 S.,R.7 W.

Chains.	
6.00	Leave timber and continue in dense undergrowth bears E&W.
38.65	Creek 10 lks.wide,8 ins.deep,in hollow 100 ft.below sec.cor.,course S.80° E.
	Ascend.
40.00	Set a volcanic stone 18x14x8 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.
41.80	Top of ridge 75 ft.above creek,bears E.and W.
	Descend.
49.80	Creek 10 lks.wide 8 ins.deep,in hollow 75 ft.below top of ridge,course E.
	Ascend.
59.35	Enter heavy quakingasp timber bears E.and W.
61.85	Top of ridge about 200 ft.above creek,bears E.and W.
	Descend.
72.90	Intersect S.bdy.of Tp.at N.87°20' W.2.34 chs.dist.,from the old cor.of secs.2,3,34 and 35,heretofore described.
	Set a volcanic stone 12x10x6 ins.,8 ins.in the ground, for closing cor.of secs.34 and 35,marked with 2 grooves on E.and 4 grooves on W.faces with C.C.on N.face;from which
	A quakingasp 6 ins.dia.bears N.56 1/2° E.34 lks.dist., marked T 34 S R 7 W S 35 B.T.
	A quakingasp 6 ins.dia.bears N.35 1/2° W.19 lks. dist.,marked T 34 S R 7 W S 34 B T.
	Note:-I destroy all marks on the old cor.of secs.2, 3,34 and 35,pertaining to secs.34 and 35.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,quakingasp.
	Undergrowth,oak,serviceberry and sage brush.
	Good grass for grazing.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Mountainous or heavily timbered land or land covered with dense undergrowth 72.90 chs.
	N.0°01' W.bet.secs.26 and 27.
	Over mountainous land;through dense oak,serviceberry and choke cherry undergrowth.
	Ascend.
25.40	Road to Panguitch bears E.and W.
29.75	Enter heavy quakingasp timber bears E.and W.
32.75	Top of spur 100 ft.above sec.cor.,bears E.and W.
40.00	Set a volcanic stone 24x10x8 ins.,18 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 8 ins.dia.bears N.48 1/2° E.34 lks.dist., marked 1/4 S 26 B T.
	A quakingasp 7 ins.dia.bears S.55 1/4° W.23 lks.dist., marked 1/4 S 27 B T.
44.00	Leave heavy quakingasp timber bears E.and W.
63.00	Enter heavy quakingasp timber bears E.and W.
65.00	Leave timber bears E.and W.
72.00	Ravine 25 ft.deep,course SE.
	Continue ascent.
80.00	Set a volcanic stone 16x10x8 ins.,11 ins.in the ground, for cor.of secs.22,23,26 and 27,marked with 2 notches on S.and 2 notches on E.edges;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous and rolling.
	Soil,gravelly,2nd.rate.
	Timber,quakingasp.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Undergrowth,oak,serviceberry and chokecherry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth . 80.00 chs.
	August 21,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.

	East on a random line bet.secs.23 and 26.
40.00	Set temp.1/4 sec.cor.
80.20	Intersect N.and S.line at the cor.of secs.23,24,25 and 26,heretofore described.
	Thence I run
	West on a true line bet.secs.23 and 26.
	Over mountainous land;through oak,sage and serviceberry undergrowth.
	Descend.
13.85	Bottom of hollow 150 ft.below sec.cor. and wash 10 lks. wide 4 ft.deep,course SW.
	Continue along bottom of hollow.
23.00	Spring in Bottom of hollow.
26.95	Same wash in bottom of hollow,10 lks.wide 4 ft.deep, course N.60° W.
	Ascend.
34.85	Top of spur 50 ft .above wash bears N.30° E.and S.30°W.
	Descend.
40.10	Set a volcanic stone 14x8x8 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 impracticable.

Subdivision of T.34 S.,R.7 W.

Chains.	
41.35	Old road bears N. and S.
42.60	Wash in bottom of hollow 50 ft.below 1/4 sec.cor., 10 lks.wide 5 ft.deep,course SW.
	Ascend.
46.80	Enter mahogany timber bears NE and SW.
66.80	Top of spur about 100 ft.above wash bears N.30° E.and S.30° W.
	Descend.
80.20	The cor.of secs.22,23,26 and 27,100 ft.below top of spur.
	Land mountainous and rolling.
	Soil,gravelly and stony on ridges and loam in hollow, 2nd.,3rd.and 1st.rate.
	Timber,scattering mahogany.
	Undergrowth,oak,sage and serviceberry brush.
	Mountainous land or land covered with dense undergrowth 80.20 chs.
	August 21,1909.

August 23,1909:I set off 37°50' N.on the lat.arc; 11°33' N.on the decl.arc;and at 8h3m a.m.,l.m.t.,determine a 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 mountainous land;through dense oak and serviceberry undergrowth and scattering mahogany.

Ascend.

13.00	Enter heavy pine and quakingasp timber bears E.and W.

Subdivision of T.34 S.,R.7 W.

Chains.	
22.00	Top of ridge 150 ft.above sec.cor.,bears N.70° W.and S. 70° E.
	Descend.
34.00	Hollow 75 ft.below top of ridge,course S.75° E.
	Ascend.
40.00	Set a volcanic stone 15x10x8 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 5 ins.dia.bears N.77 1/2° W.15.5 lks. dist.,marked 1/4 S 22 B T.
	A quakingasp 5 ins.dia.,bears N.35 1/2° E.,35 lks. dist.,marked 1/4 S 23 B T.
53.00	Top of spur 100 ft.above hollow,bears E.and W.
	Descend.
60.50	Ravine 75 ft.below top of spur,course N.70° E.
	Ascend.
67.00	Top of spur 100 ft.above ravine,bears E.and W.
	Leave heavy pine timber and continue in heavy quakingasp, scattering pine and mahogany timber,bears E.and W.
	Descend.
75.00	Leave pine and mahogany timber and continue in heavy quakingasp timber bears S.E.and NW.
80.00	Set a granite stone 16x8x4 ins.,11 ins.in the ground, for cor.of secs.14,15,22 and 23,marked with 3 notches on the S.and 2 notches on the E.edges;from which
	A quakingasp 6 ins.dia.bears N.42 1/2° E.29 lks.dist., marked T 34 S R 7 W S 14 B T.
	A quakingasp 4 ins.dia.bears S.77° E.26 lks.dist., marked T 34 S R 7 W S 23 B T.
	A quakingasp 6 ins.dia.bears S.50 1/2° W.37 lks.dist., marked T 34 S R 7 W S 22 B T.
	A quakingasp 8 ins.dia.bears N.55° W.41 lks.dist., marked T 34 S R 7 W S 15 B T.

Subdivision of T.34 S.,R.7 W.

Chains.

Corner about 75 ft.below top of spur.
Land mountainous.
Soil,gravelly and stony;2nd.and 3rd rate.
Timber,quakingasp,pine and mahogany.
Undergrowth,oak and serviceberry brush.
Good grass for grazing.
Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

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

40.00 Set temp.1/4 sec.cor.

80.16 Intersect N.and S.line,12 lks.N.of the cor.of secs. 13,14,23 and 24 ,heretofore described.

August 23,1909: At this cor.I set off 11°29' N.on the decl.arc;and at 10h3m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat is 37°51' N.,which is the proper lat.nearly.

Thence I run

N.89°55' W.on a true line bet.secs.14 and 23.

Over mountainous land;through mahogany timber and dense oak,serviceberry and chokecherry undergrowth.

Descend.

21.50 Enter medium heavy quakingasp timber bears NE and SW.

22.25 Bottom of hollow 175 ft.below sec.cor.,course S.30° W.

Ascend.

25.30 Top of ridge 25 ft.above hollow,bears SW and NE.

Descend.

31.35 Wash in bottom of hollow 35 ft.below top of ridge,10 lks. wide,4 ft.deep,course S.

Ascend.

Subdivision of T.34 S.,R.7 W.

Chains.	
40.08	Set a granite stone 16x8x5 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A branch of mahogany 4 ins.dia.bears N.22°W.67 lks. dist.,marked 1/4 S 14 B T.
	A quakingasp 4 ins.dia.bears S.52° W.97 lks.dist., marked 1/4 S 23 B T.
41.60	Top of spur 75 ft.above wash,bears SW and NE.
	Descend.
51.25	Enter heavy quakingasp timber bears N.and S.
52.05	Wash in bottom of hollow 50 ft.below top of ridge,8 lks. wide,4 ft.deep,course S.10° W.
	Ascend.
52.65	Leave quakingasp timber bears N.and S.
54.50	Top of spur 100 ft.above wash bears S.40° W.and N.40°E.
	Descend.
63.75	Bottom of hollow 100 ft.below top of spur,with wash in hollow 8 lks.wide,3 ft.deep,course S.10° E.
	Spring run in bottom of wash,20 lks.S.of line. Ascend.
65.30	Old road and trail bears NW and S.10°E.
65.40	Enter heavy quakingasp timber bears N.and S.30° E.
80.16	The cor.of secs.14,15,22 and 23,100 ft.above hollow.
	Land mountainous and rolling.
	Soil,gravelly;2nd.rate.
	Timber,quakingasp and mahogany.
	Undergrowth,oak,serviceberry and chokecherry.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.16 chs.

Subdivision of T.34 S.,R.7 W.

Chains	
	N.0°01' W.bet.secs.14 and 15.
	Over mountainous land;through heavy quakingasp and scattering pine timber and dense oak,serviceberry and choke cherry undergrowth.
	Descend.
2.50	Bottom of hollow,25 ft.below sec.cor.,course NE.
	Thence along bottom of hollow,gradually ascending.
9.90	O'd road and trail bears S.70° E.and N.70° W.
11.00	Begin to ascend S.slope of ridge,bears S.70° E.and N. 70° W.
15.30	Leave quakingasp timber bears E.and W.
22.15	Enter heavy quakingasp timber bears S.30° E.and N.30°W.
28.00	Leave quakingasp and enter heavy pine timber bears E. and W.
29.00	Top of divide ridge,150 ft.above hollow,bears N.80° E. and S.80° W.
	Descend.
30.25	Leave heavy pine timber and enter scattering pine and quakingasp timber bears NE and W.
32.15	Enter heavy quakingasp timber bears NE and SW.
35.50	Leave quakingasp timber and enter kinnikinick undergrowth bears NE and SW.
39.00	Enter heavy quakingasp timber bears SE and NW.
	Continue in undergrowth.
40.00	Set a volcanic stone 20x8x4 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 4 ins.dia.bears S.73 1/2°E.8 lks.dist., marked 1/4 S 14 B T.
	A quakingasp 3 ins.dia.bears N.26 3/4°W.6 lks.dist., marked 1/4 S 15 B T.
48.40	Bottom of pole canon about 400 ft.below top of ridge, course N.60° W.
	Ascend.

Subdivision of T.34 S.,R.7 W.

Chains.	
51.40	Leave quakingasp timber and enter heavy mahogany and dense oak, bears NW and SE.
57.70	Top of spur about 100 ft. above bottom of pole canon, bears N.60° W. and S.60° E.
	Enter burnt pine timber bears N.60° W. and S.60° E.
	Descend.
61.60	Enter heavy quakingasp and leave scattering burnt pine timber, bears E. and W.
62.90	Bottom of canon about 100 ft. below top of spur, course N.50° W.
	Ascend.
63.65	Leave quakingasp timber bears N.60° E. and N.60° W.
65.90	Top of spur 50 ft. above bottom of canon, bears E. and W.
	Enter heavy pine timber bears E. and W.
	Descend.
70.00	Enter heavy quakingasp and leave pine timber bears S.30° E. and S.70° W.
75.50	Bottom of canon 100 ft. below top of spur, course S.50° W.
	Leave timber bears E. and W.
	Enter dense sage brush, and continue in oak and mahogany bears E. and W..
	Ascend.
80.00	Set a granite stone 18x11x5 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14 and 15, marked with 4 notches on the S. and 2 notches on the E. edges; from which
	An oak 3. ins. dia. bears N.47 1/4° E.39 lks. dist. marked T.34 S.; R.7 W.; S 11 B T.
	A cedar 14 ins. dia. bears S.21 1/2° E.395 lks. dist., marked T 34 S R 7 W S 14 B T.
	An oak 4 ins. dia. bears S.30 1/2° W.54 1/2 lks. dist., marked T 34 S R 7 W S 15 B T.
	A mahogany 3 ins. dia. bears N.68° W.47 2/3 lks. dist., marked T 34 S R 7 W S 10 B T.

Chains.

Corner about 75 ft.above bottom of canon.

Land mountainous.

Soil,gravelly and stony;2nd.and 4th.rate.

Timber,quakingasp,pine,mahogany and some large oak.

Undergrowth,oak,serviceberry,chokecherry,sagebrush and kinnikinick.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

August 23,1909.

August 24,1909:I set off 37°52' N.on the lat.arc; 11°13' N.on the decl.arc;and at 8h2m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs. 10,11,14 and 15.

Thence I run

S.89°55' E.on a random line bet.secs.11 and 14.

40.00 Set temp.1/4 sec.cor.

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

Thence I run

N.89°59' W.on a true line bet.secs.11 and 14.

Over mountainous land;through heavy mahogany timber and oak and sage brush undergrowth.

Descend.

14.20 Foot of ridge about 100 ft.below sec.cor.,bears SE and NW.

Enter heavy quakingasp timber and scattering mahogany, bears SE and NW.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend gradually along bottom of hollow.
14.50	Old trail bears S.50° E.and N.50° W.
15.90	Creek in bottom of hollow 1 link wide and 1 inch deep, course S.50° E.
	Ascend.
18.50	Old corrall about 4 rods square bears 100 lks.S of line.
18.90	Leave quakingasp timber bears SW and N.
	Leave hollow and begin more rapid ascent,bears NW.and SE.
24.00	Enter heavy pine timber bears N.50° W.and S.60° W.
29.00	Top of spur 100 ft.above creek bears N.30° E.and S.30° W.
	Descend.
32.40	Bottom of ravine 30 ft.below top of spur,course NE.
	Ascend.
	Enter heavy quakingasp timber and leave heavy and enter scattering pine timber bears NE and SW.
34.40	Leave heavy quakingasp timber and enter scattering quakingasp timber bears N.and S.
40.05	Set a granite stone 18x8x7 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A quakingasp 8 ins.dia.bears S.61°W.81 lks.dist., marked 1/4 S 1/4 B T.
	A quakingasp 8 ins.dia.bears N.50° W.74 lks.dist., marked 1/4 S 11 B T.
43.60	Top of spur 100 ft.above ravine bears N.70° E.and S.70° W.
	Descend.
46.00	Ravine 30 ft.below top of spur,course N.60°E.
	Ascend.
48.00	Enter heavy quakingasp timber bears NW and SE.
56.30	Leave quakingasp timber bears N.50° E.and S.80° W.
66.50	Top of divide ridge about 200 ft.above ravine bears S.10° E.and N.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend.
69.35	Enter heavy quakingasp timber bears S.70° E.and N.20° W.
73.20	Bottom of ravine 150 ft.below top of divide ridge, course S.70° W.
	Ascend.
73.35	Leave heavy quakingasp timber bears NE and SW.
74.50	Top of spur 35 ft.above ravine,bears S.30° W.and N.30° E.
	Descend.
78.35	Ravine 50 ft.below top of spur,course S.25° W.
	Ascend.
80.10	The cor.of secs.10,11,14 and 15,25 ft.above ravine.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,quakingasp ,pine and mahogany.
	Undergrowth,oak,serviceberry and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.10 chs.

	N.0°01' W.bet.secs.10 and 11.
	Over mountainous land;through oak,mahogany and serviceberry.undergrowth.
	Ascend.
15.50	Top of ridge about 250 ft.above sec.cor.,bears N.60°E. and S.60° W.
	Descend.
25.50	Head of ravine which drains N.70° W.

Subdivision of T.34 S.,R.7 W.

Chains.	
24.70	Top of spur 50 ft.high,bears S.70° E.and N.70° W.
26.70	Enter heavy quakingasp timber bears W.and N.60° E.
31.80	Leave quakingasp timber bears SE and NW.
34.00	Enter heavy pine timber bears E.and W.
35.50	Leave heavy pine and enter heavy quakingasp timber, bears E.and W.
40.00	Set a granite stone 18x10x4 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 4 ins.dia.bears S.84° W.15 lks.dist., marked 1/4 S 10 B T.
	A quakingasp 4 ins.dia.bears S.83 1/4° E.12.5 lks. dist.,marked 1/4 S 11 B T.
45.00	A small spring bears W.100 lks.dist.
45.50	Bottom of trail canon 250 ft.below top of ridge noted at 15.50,with wash10 lks.wide and 4 ft.deep and stream 1 lk.wide 1 inch deep,course SW.
	Ascend.
46.00	Trail bears SW and N.70° E.
	Leave quakingasp timber bears NE and SW.
	Continue in undergrowth and mahogany timber.
50.00	Top of spur 75 ft.above canon,bears SW and NE.
	Descend.
55.00	Ravine 50 ft.below top of spur and wash 8 lks.wide 4 ft deep,course SW.
	Ascend.
65.00	Top of spur 150 ft.above ravine bears S.35° E.and N.35° W.
	Continue to ascend.
67.00	Head of ravine 10 ft.deep,course SE.
	Continue ascent.
74.50	Enter broken ledges bears E.and W.
	Continue ascent through broken ledges.
80.00	Set a granite stone 12x10x6 ins.,8 ins.deep in mound

Subdivision of T.34 S.,R.7 W.

Chains.	
	of stone on granite ledge,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.
	Land mountainous.
	Soil,gravelly and stony;3rd and 4th.rate.
	Timber,quakingasp pine and mahogany.
	Undergrowth,oak,mahogany and serviceberry brush with some sagebrush;undergrowth scattering in broken ledges.
	Good grass for grazing except in ledges.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 24,1909:At this cor.I set off 11°39' N.on the decl.arc;and at 0h43m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°53' N.,which is the proper lat.nearly.
	S.89°59' E.on a random line bet.secs.2 and 11.
40.00	Set temp.1/4 sec.cor.
80.02	Intersect N and S.line at 21 lks.N.of the cor.of secs. 1,2,11 and 12,heretofore described.
	Thence I run
	N.89°50' W.on a true line bet.secs.2 and 11.
	Over mountainous land;through heavy pine and quakingasp timber and dense oak and serviceberry undergrowth.
	Ascend.
40.01	Set a volcanic stone 16x10x7 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which

Subdivision of T.34 S.,R.7 W.

Chains.

A red pine 10 ins.dia.bears N.34°W.15 lks.dist., marked 1/4 S 2 B T.;

A red pine 8 ins.dia.bears S.43° E.,67 lks.dist., marked 1/4 S 11 B T.

46.50 Top of ridge about 500 ft.above sec.cor.,bears SE and NW.

Leave heavy and enter scattering timber bears SE and NW.

Thence descend along S.slope of high ridge.

68.00 Enter broken ledges bears N.65° E.and S.65°W.

Leave timber and dense undergrowth and enter scattering undergrowth bears NE and SW.

Thence through broken ledges.

80.02 The cor.of secs.2,3,10 and 11,about 100 ft.below top of ridge.

Land mountainous and very steep and broken.

Soil gravelly on E.half mile and stony on W.half mile; 3rd and 4th.rate.

Timber,pine and quakingasp with scattering mahogany.

Undergrowth,oak and serviceberry brush.

Good grass for grazing on E.half mile;very rocky and very little grass on W.half mile.

Mountainous or heavily timbered land or land covered with dense undergrowth in 80.02 chs.

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

27.88 Intersect N.bdy.of Tp.at the cor.of secs.2 and 3,heretofore described.

Thence I run

Subdivision of T.34 S.,R.7 W.

or corrective notes see page 103 this book.

Chains.	
	S.0°01' E.on a true line bet.secs.2 and 3.
	Over mountainous land;through scattering timber and scattering undergrowth.
	Ascend over lava bed.
5.50	Enter heavy pine and quakingasp timber and dense oak undergrowth bears N.30° W.and N.20° E.
	Leave lava bed bears N.30° W.and N.20°E.
9.50	Top of spur on W.slope of Little Creek Peak,100 ft.above the sec.cor.,bears N.70° W.and S.70° E.
	Leave heavy timber and dense undergrowth and enter scattering timber and undergrowth,bears N.70° W.and S.70° E.
	Descend through broken ledges.
27.88	The cor.of secs.2,3,10 and 11,about 156 ft.below top of spur.
	Land mountainous and very rough.
	Soil,stony except 4.00 chs.in timber;4th and 3rd.rate.
	Undergrowth,oak.
	Good grass for grazing on about 4.00 chs.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 27.88 chs.
	August 24,1909.

August 25,1909:I set off 37°49' N.on the lat.arc; 10°52' N.on the decl.arc;and at 8h2m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs. 27,28,33 and 34,heretofore described.

Thence I run

S.0°02' E.on a true line bet.secs.33 and 34

Subdivision of T.34 S.,R.7 W.

Chains. Over low ridges and ravines;through heavy pine and quakingasp timber and scattering mahogany,and dense oak and serviceberry undergrowth.

Descend.

6.35 Ravine 75 ft.below sec.cor.,course S.70° E.

Ascend.

9.35 Top of ridge about 100 ft.above ravine,bears E.and W.

Descend.

16.35 Ravine 150 ft.below top of ridge,course NE.

Ascend.

25.85 Top of ridge 100 ft.above ravine,bears E.and W.

Descend.

32.35 Leave mahogany timber bears E.and W.

40.00 Set a volcanic stone 14x12x4 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which

A quakingasp 8 ins.dia.bears N.10 1/2° E.34 lks.dist. marked 1/4 S 34 B T.

A quakingasp 8 ins.dia.bears N.76 1/4° W.162 lks. dist.,marked 1/4 S 33 B T.

49.50 Fence bears E.and W.

Leave timber bears E.and W.;continue in undergrowth.

60.65 Intersect S.bdy.of TP.N.87°30' W.,2.42 chs.dist., from the old cor.of secs.3,4,33 and 34,heretofore described.

Set a volcanic stone 30x20x6 ins.,23 ins.in the ground, for closing cor.of secs.33 and 34,marked with 3 grooves on E.and W.faces and 33 on N.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.

Pits impracticable.

Note:-I destroy all marks on the old cor.of secs. 3,4,33 and 34,pertaining to secs.33 and 34.

Land mountainous and rolling.

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

Timber,quakingasp,pine and mahogany.

Chains.	
	Undergrowth, dense oak and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth . . 69.65 chs.
	From the cor. of secs. 27, 28, 33 and 34, I run N. 0°02' W. bet. secs. 27 and 28.
	Over mountainous land; through scattering quakingasp, mahogany and pine timber and dense oak and serviceberry undergrowth.
	Ascend.
5.90	From this point on line William Tebbs cabin bears N. 79°12' E. about 40.00 chs. dist.
7.50	Top of ridge about 75 ft. above sec. cor., bears N. 50° E. and S. 50° W.
	Descend.
13.70	Enter heavy quakingasp timber bears SW and NE.
20.70	Ravine 100 ft. below top of ridge, course N. 70° E.
	Ascend.
22.70	Leave quakingasp timber bears E. and W.
25.00	Top of ridge about 50 ft. above ravine, bears N. 70° E. and W.
	Enter heavy pine and quakingasp timber bears E. and W.
	Descend.
32.45	Bottom of ravine, 40 ft. below top of ridge, course E.
	Ascend.
33.50	Leave pine and quakingasp timber bears N. 75° W. and NE.
	Continue in mahogany timber.
40.00	Set a granite stone 18x10x7 ins., 12 ins. in the ground,

Subdivision of T.34 S.,R.7 W.

Chains.

for 1/4 sec.cor.,marked 1/4 on W.face;from which

A mahogany 10 ins.dia.bears S.89 1/2°W.141 lks.dist., marked 1/4 S 28 B T.

A mahogany 12 ins.dia.bears S.31° E.277 lks.dist., marked 1/4 S 27 B T.

42.40 Top of ridge 50 ft.above ravine,bears E.and W.

Descend.

46.00 Enter heavy pine and quakingasp timber bears E.and W.

55.00 Bottom of ravine 75 ft.below top of ridge,course NE.

Ascend.

59.00 Leave heavy pine and quakingasp timber and enter scattering quakingasp timber bears E.and W.

Enter dense sage undergrowth bears E.and W.

72.50 Top of spur 75 ft.above last ravine;bears E.and S.70°W.

Descend.

79.84 Road to Panguitch bears S.80° E.and N.80° W.

80.00 Set a granite stone 16x10x4 ins.,11 ins.in the ground, for cor.of secs.21,22,27 and 28,marked with 2 notches on the S.and 3 notches on the E.edges;from which

A quakingasp 12 ins.dia.bears N.62 1/2° E.102 lks. dist.,marked T 34 S R 7 W S 22 B T.

A quakingasp 10 ins.dia.bears N.10°15' W.186 lks. dist.,marked T 34 S R 7 W S 21 B T.

No other trees within limits;raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.

Pits impracticable.

Land mountainous and rolling.

Soil,gravelly loam;2nd.rate.

Timber,quakingasp,pine and mahogany.

Undergrowth,oak and serviceberry brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth = 80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	August 25,1909:At this cor.I set off 10°48' N.on the decl.arc;and at 10^h2^m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat is 37°50' N.which is the proper latitude nearly.
	E.on a random line bet.secs.22 and 27.
40.00	Set temp.1/4 sec.cor.
79.92	Intersect N.and S.line at 5 lks.N.of the cor.of secs. 22,23,26 and 27,heretofore described.
	Thence I run
	N.89°58' W.on a true line bet.secs.22 and 27.
	Over mountainous land;through scattering mahogany timber and dense oak and serviceberry undergrowth.
	Descend.
1.60	Bottom of ravine 15 ft.below sec.cor.,course S.
	Ascend.
14.75	Top of knoll 300 ft.above ravine,with ridges extending N.and S.
	An old sheep corral bears S.50°30' W.about 35 chs.dist.
	Descend over W.slope of knoll.
28.70	Bottom of canon.at foot of knoll,about 325 ft.below top of knoll,course SE.
	Enter heavy quakingasp timber bears SE and NW.
	Ascend.
30.60	Old road bears N and S.
32.45	Leave quakingasp timber bears N and S.
	Enter heavy mahogany timber bears N and S.
	Ascend rapidly along SE and S.slopes of high knoll.
39.96	Set a granite stone 18x10x6 ins.,12 ins.in the ground,

Subdivision of T.34 S.,R.7 W.

Chains	
	for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 8 ins.dia.bears N.16 3/4°E.150 lks.dist., marked 1/4 S 22 B T.
	A mahogany 4 ins.dia.bears S.58° W.43 lks.dist., marked 1/4 S 27 B T.
	Raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
	An old corral bears S.5° W.about 22.50 chs.dist.
46.40	Top of spur on S.slope of knoll,about 250 ft.above bottom of canon,bears N.and S.
	Top of knoll about 350 ft.high bears N.of line about 5.00 chs.dist.
	Descend rapidly over S.and SW slopes of knoll.
62.00	Leave mahogany timber and mahogany brush bears N.and S.
67.90	Bottom of ravine at foot of knoll,about 200 ft.below top of spur,and wash about 5 lks.wide 4 ft.deep,with stream of water in bottom of wash,5 lks.wide,2 ins.deep,course S.20° E.
	Ascend .
72.70	Top of ascent about 25 ft.above creek,bears S.20° E. and N.20° W.
	Thence over nearly level land,gradually ascending.
79.92	The cor.of secs.21,22,27 and 28.
	Land mountainous.
	Soil gravelly and stony;2nd.,3rd.and 4th.rate.
	Timber,quakingasp and mahogany.
	Undergrowth,oak,serviceberry and mahogany brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 79.92 chs.
	August 25,1909.

Subdivision of T.34 S.,R.7 W.

Chains.	
	August 26,1909:I set off 37°50' N.on the lat.arc; 10°32' N.on the decl.arc;and at 8h2m a.m.,l.m.t., determine a meridian with the solar at the cor.of secs. 21,22,27 and 28,heretofore described.
	Thence I run
	N.0°02' W. bet.secs.21 and 22.
	Over mountainous land;through dense oak and serviceberry undergrowth.
	Descend gradually.
2.10	Enter heavy quakingasp timber bears S.80° E.and N.80°W.
6.20	Descend into ravine bears E.and W.
7.90	Bottom of ravine 30 ft.deep,and 50 ft.below sec.cor., course E.
	Ascend.
8.20	Leave quakingasp timber bears E.and W.
12.60	Top of spur 100 ft.above ravine,bears NE and SW.
	Descend.
16.60	Enter heavy quakingasp timber bears E.and W.
22.90	Leave quakingasp timber bears NE and SW.
23.20	Bottom of ravine 30 ft.below top of spur,course S.60°W.
	Ascend.
28.20	Top of spur 75 ft.above ravine,bears NE and SW.
	Continue ascent.
29.20	Enter heavy quakingasp timber bears NE and SW.
30.45	Ravine 15 ft.deep,course S.40° W.
	Continue ascent.
35.20	Leave quakingasp timber bears NE and SW.
36.20	Enter heavy mahogany timber and mahogany brush bears NE and SW.
40.00	Set a granite stone 18x10x5 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A mahogany 8 ins.dia.bears N.10°30' E.123 lks.dist., marked 1/4 S 22 B T.
	A mahogany 18 ins.dia.bears N.43 1/4°W.97 lks.dist.,

Subdivision of T.34 S.,R.7 W.

Chains. marked 1/4 S 21 B T.

44.80 Top of spur 125 ft.above last ravine,bears SW and NE.

Continue to ascend.

59.20 Ravine 15 ft.deep,course SW.

65.70 Top of divide ridge about 125 ft.above ravine and about 300 ft.above sec.cor.,bears S.30° E.and N.30° W.

67.00 Descend over granite ledge about 75 ft.high extends about 100 lks.E.and W.of line.

Thence descend rapidly over N.slope of ridge.

67.40 Enter heavy pine,balsam and quakingasp and leave mahogany timber and brush bears E.and W.

80.00 Set a volcanic stone 20x15x8 ins.,15 ins.in the ground, for cor.of secs.15,16,21 and 22,marked with 3 notches on S.and 3 notches on E.edges;from which

A balsam 5 ins.dia.bears N.76 3/4 °E.42 lks.dist., marked T 34 S R 7 W S 15 B T.

A balsam 6 ins.dia.bears S.76°E.20 lks.dist., marked T 34 S R 7 W S 22 B T.

A pine 16 ins.dia.bears S.42°W.17 lks.dist., marked T 34 S R 7 W S 21 B T.

A balsam 8 ins.dia.bears N.34 1/4°W.52 lks.dist., marked T 34 S R 7 W S 16 B T.

Corner about 250 ft.below top of divide ridge.

Land mountainous.

Soil,gravelly and stony;2nd.and 4th.rate.

Timber,pine,quakingasp,balsam and mahogany.

Undergrowth,oak,serviceberry and mahogany brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	S.89°58' E.on a random line bet.secs.15 and 22.
40.00	Set temp.1/4 sec.cor.
79.88	Intersect N.and S.line at 5 lks.S.of the cor.of secs. 14,15,22 and 23,heretofore described.
	Thence I run
	West on a true line bet.secs.15 and 22.
	Over mountainous land;through heavy quakingasp timber and dense oak,and serviceberry brush.
	Ascend E.slope of divide ridge.
9.00	Leave quakingasp and enter mahogany and scattering pine timber bears NE and SW.
11.60	Top of divide ridge 100 ft.above the sec.cor.,bears N.30° E.and S.30° W.
	Descend over ledge 30 ft.high bears N/and S.into canon.
26.75	Bottom of canon 200 ft.below top of divide ridge,and small creek,1 lk.wide 1 inch deep,course NW.
	Ascend.
30.75	Top of spur 50 ft.above bottom of canon,bears N.35°W. and S.35° E.
	Descend.
31.50	Ravine 50 ft.below top of spur,with spring run in bottom,course N.35° W.
	Ascend.
39.94	Set a volcanic stone 16x12x4 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A balsam 4 ins.dia.bears N.74° E.16 lks.dist., marked 1/4 S 15 B T.
	A pine 18 ins.dia.bears S.8 1/4° W.51 lks.dist., marked 1/4 S 22 B T.
41.60	Top of spur 80 ft.above ravine,bears N/and S.
	Descend.
45.50	Enter heavy quakingasp timber and leave pine and mahogany timber bears N/and S.

Subdivision of T.34 S.,R.7 W.

Chains.	
46.00	Bottom of canon 100 ft.below top of spur,and small creek 1 link wide,1/2 inch deep,course N.20° E.
	Ascend.
57.50	Top of spur about 100 ft.above bottom of canon,bears N.20° E.and S.20° W.
	Descend.
57.75	Enter scattering pine timber bears NE and SW.;and continue in quakingasp timber.
62.20	Bottom of ravine 25 ft.below top of spur,course N.50° E.
	Ascend gradually.
67.40	Old road bears N.20° E.and S.20° W.
70.00	Enter heavy pine and balsam timber and continue in quakingasp timber bears N.and S.
79.88	The cor.of secs.15,16,21 and 22,about 50 ft.above last ravine.
	Land mountainous.
	Soil gravelly and stony;2nd.and 4th.rate.
	Timber,quakingasp,pine,mahogany and balsam.
	Undergrowth,oak,serviceberry and mahogany brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 79.88 chs.
	August 26,1909:At this cor.I set off 10°28' N.on the decl.arc;and at $0^h.2^m$ p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°51' N. which is the proper lat.nearly.

N.0°02' W.bet.secs.15 and 16.

Over mountainous land;through heavy quakingasp,pine,and balsam timber and dense oak and serviceberry undergrowth.

Descend.

Subdivision of T.34 S.,R.7 W.

Chains.	
7.00	Leave timber bears NE and SW.
	Descend abruptly into ravine,bears NE and SW.
11.25	Bottom of ravine 100 ft.below the sec.cor.,and creek,3 lks.wide,2 ins.deep,rapid current,clear fresh water
	Course NE.
	Ascend.
14.00	Enter heavy mahogany timber bears NE and SW.
17.50	Top of spur 75 ft,above creek,bears NE and SW.
	Enter scattering pine timber bears E.and W.
	Descend.
22.50	Leave mahogany and enter heavy pine timber bears E.and W.
34.00	Bottom of hollow 100 ft.below top of spur,course N.35°E.
	Ascend.
34.50	Old road bears N.35° E.and S.35° W.
	Enter quakingasp timber bears E.and W.
37.50	Top of spur 25 ft.above bottom of hollow,bears N.35°E. and S.35° W.
	Old road bears N.35° E.and S.35° W.
	Descend.
38.75	Leave quakingasp timber and continue in pine timber bears E.and W.
40.00	Set a granite stone 20x10x3 ins.,15 ins.in the ground, for 1/4 sec.cor.marked 1/4 on W.face;from which
	A pine 7 ins.dia.Bears N.83° E.68 lks.dist., marked 1/4 S 15 B T.
	A pine 4 ins.dia.bears N.9° W.52 lks.dist., marked 1/4 S 16 B T.
41.15	Enter heavy quakingasp and leave pine timber bears E.and W.
45.50	Leave timber and continue in undergrowth bears E.and W.
48.50	Bottom of ravine 50 ft.below top of spur,course E.
	Ascend.
57.75	Top of spur on E.slope of high ridge,100 ft.above ravine bears E.and W.
	Descend.

Subdivision of T.34 S.,R.7 W.

Chains.	
61.00	Enter heavy pine and leave mahogany timber bears E.andW.
62.70	Leave heavy pine and enter heavy mahogany timber bears E.and W.
68.80	Enter heavy quakingasp and leave mahognay timber bears S.70° E.and N.70° W.
72.75	Bottom of ravine,25 ft.deep,course NE.
	Ascend.
73.00	Leave quakingasp timber bears E.and W.
77.00	Top of spur on NE slope of high ridge,25 ft.above ravine bears NE and SW.
	Enter scattering pine timber bears E.and W.
	Descend.
80.00	Set a volcanic stone 16x8x6 ins.,11 ins.in the ground, for cor.of secs.9,10,15 and 16,marked with 4 notches on the S.and 3 notches on E.edges;from which
	A black pine 8 ins.dia.bears N.65 1/2°E.22 lks.dist. marked T 34 S R 7 W S 10 B T.
	A black pine 6 ins.dia.bears S.25 1/2° E.41 lks.dist., marked T 34 S R 7 W S 15 B T.
	A black pine 9 ins.dia.bears S.23° W.46 lks.dist., marked T 34 S R 7 W S 16 B T.
	A black pine 18 ins.dia.bears N.60 1/2° W.,23 lks.dist. marked T 34 S R 7 W S 9 B T.
	Corner 50 ft.below top of spur.
	Land mountainous.
	Soil gravelly;3rd.rate.
	Timber,pine,quakingasp,mahogany and balsam.
	Undergrowth,oak,serviceberry and mahogany brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	East on a random line bet.secs.10 and 15.
40.00	Set temp.1/4 sec.cor.
79.80	Intersect N.and S.line at the cor.of secs.10,11,14 and 15.
	Thence I run
	West on a true line bet.secs.10 and 15.
	Over mountainous land;through scattering pine and heavy mahogany timber and dense oak,serviceberry,mahogany and chokecherry undergrowth.
	Ascend.
12.40	Top of spur on S.slope of ridge 150 ft.above the sec.cor. bears N.and S.
	Descend.
29.50	Bottom of ravine,75 ft.below top of spur,course S.
	Ascend.
39.90	Set a volcanic stone 20x12x6 ins.,15 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 8 ins.dia.bears N.75° E.49 lks.dist., marked 1/4 S 10 B T.
	A pinion pine 15 ins.dia.bears S.66 1/4° W.62 lks. dist.,marked 1/4 S 15 B T.
47.50	Top of spur 100 ft.above ravine,bears N.and S.
	Descend.
70.75	Old road bears N.and S.
71.00	"Little Creek",in bottom of canon 250 ft.below top of spur,3 lks.wide,2 ins.deep,clear fresh water,course N.
	Ascend.
78.00	Top of spur 100 ft.above creek bears N.and S.
	Descend gradually.
79.80	The cor.of secs.9,10,15 and 16.
	Land mountainous.
	Soil,gravelly and stony;3rd.and 4th.rate.
	Timber,pine and mahogany.
	Undergrowth,oak,serviceberry,chokecherry and mahogany brush.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	79.80 chs.
	August 26,1909.

	August 27,1909: I set off 37°52' N.on the lat.arc; 10°11' N.°n the decl.arc;and at 8h2m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs. 9,10,15 and 16 ,heretofore described.
	Thence I run
	N.0°02' W.bet.secs.9 and 10.
	Over mountainous land;through scattering pine and mahogany timber and dense sage ,serviceberry and oak, undergrowth.
	Descend.gradually.
1.35	Descend abruptly.into canon,bears E.and W.
10.35	Bottom of canon 100 ft.deep,with creek 5 lks.wide,4 ins. deep,course N.70° W.
	Ascend abruptly.
13.00	Top of ascent on N.side of canon,100 ft.above creek, bears S.70° E.and N.70° W.
	Descend.gradually.
23.00	Descend abruptly into ravine, bears E.and W.
24.50	Bottom of ravine 25 ft.deep,and stream 1 link wide 3 ins. deep,course W.
	Ascend abruptly.
27.75	Top of ascent on N.side of ravine,30 ft.above bottom of ravine bears E.and W.
	Descend gradually.
28.00	Old road and trail bears N.15° W.and S.65° E.

Subdivision of T.34 S.,R.7 W.

Chains.	
40.00,	Set a volcanic stone 14x8x4 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A mahogany 12 ins.dia.bears N.72° E.188 lks.dist., marked 1/4 S 10 B T.
	A nut pine 15 ins.dia.bears N.2 3/4° W. 222 lks.dist., marked 1/4 S 9 B T.
	An old corral bears N.76° W.about 12.00 chs.dist.
40.25	Bottom of ravine about 50 ft.deep,course W.
	Ascend.
51.00	Top of spur about 75 ft.above ravine,bears N70°E&S70°W.
	Descend.
58.50	Ravine about 15 ft.deep,course W.
	Ascend gradually.
	Leave mahogany timber bears E.and W.
80.00	Set a sandstone 24x6x4 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, 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Corner in open valley on ground sloping W.from Little Creek Peak and about 25 ft.above last ravine.
	Land mountainous and rolling.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,scattering pine,quakingasp and mahogany.
	Undergrowth,sage brush,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	80.00 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	East on a random line bet.secs.3 and 10.
40.00	Set temp.1/4 sec.cor.
79.90	Intersect N.and S.line 14 lks.N;of the cor.of secs.2,3, 10 and 11,heretofore described.
	Thence I run
	N.89°54' W.on a true line bet.secs.3 and 10.
	Over mountainous land;through scattering pine and mahogany timber and scattering oak undergrowth.
	Descend abruptly over broken ledges.
15.00	Leave broken ledges bears NW and SE.
	Enter heavy mahogany and scattering pine timber and dense oak and serviceberry undergrowth,bears NW and SE.
20.00	Ravine about 50 ft.deep,course SW.
	Continue steep descent.
30.95	Set a volcanic stone 16x10x8 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face; from which
	A mahogany 3 ins.dia.bears N.68° W.35.5 lks.dist., marked 1/4 S 3 B T.
	A mahogany 3 ins.dia.bears S.36° W.54 lks.dist., marked 1/4 S 10 B T.
	Corner on SW slope of Little Creek Peak about 800 ft.below the sec.cor.
62.00	Foot of Little Creek Peak about 500 ft.below the 1/4 sec. cor.,bears S.20°E.and N.20° W.
	Leave timber and oak undergrowth and enter dense sage undergrowth,bears SE and NW.
	Descend gradually over land sloping W.from foot of Peak,
64.00	West end of land slide from Little Creek Peak bears N. about 7.00 chs.
79.90	The cor.of secs.3,4,9 and 10,about 100 ft.below foot of Little Creek Peak.
	Land mountainous and sloping foot hills.
	Soil,stony and gravelly;4th.and 3rd.rate.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Timber,scattering pine and mahogany.
	Undergrowth,sage brush,oak and mahogany.
	Good grass for grazing except in broken ledges.
	Mountainous or heavily timbered land or land covered with dense undergrowth 79.90 chs.
	August 27,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.
	Note:Knowing from retracement and survey of North boundary of Tp.that the line bet.sec.3 and 4 will not close on old cor.,
	I run
	N.0° 02' W.on a true line bet.secs.3 and 4.
	Over nearly level land;through dense sagebrush and scattering oak undergrowth.
	Ascend.
.50	Top of low spur running from Little Creek Peak,bears N.70° E.and S.70° W.
	Descend gradually.
27.55	Intersect N.bdy.of Tp.N.89°34' E.,5.30 chs.from the old cor.on S.bdy.of sec.34 ,heretofore described.
	Set a volcanic stone 16x12x4 ins.,11 ins.in the ground, for closing cor.of secs.3 and 4,marked with 3 notches on E.and W.faces and C C on S.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high S.of cor.
	Pits impracticable.
	Land on W.slope adjoining Little Creek Peak and nearly level.
	Soil,gravelly;2nd.rate.

Subdivision of T.34 S.,R.7 W.

Chains.	
	No timber.
	Undergrowth,dense sage brush and scattering oak.
	Good grass for grazing.
	Land covered with dense undergrowth 27.55 chs.
	August 27,1909.

August 28,1909:I set off 37°49' N.on the lat.arc;9° 51' W.on the decl.arc;and at 7h1m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs.28,29, 32 and 33,heretofore described.

Thence I run

S.0° 03' E.on a true line bet.secs.32 and 33.

Over mountainous land;through dense sage and oak undergrowth.

Descend over SE slope of ridge.

3.20	Enter heavy quakingasp timber bears E.and W.
12.70	Creek in bottom of ravine 100 ft.below sec.cor.,5 lks. wide,2 ins.deep,course SE.
	Ascend.
27.25	Creek 2 lks.wide,1 inch deep,course NE.
40.00	Set a volcanic stone 15x12x10 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 5 ins.dia.bears N.15 3/4° E.23 lks.dist., marked 1/4 S 33 B T.
	A quakingasp 6 ins.dia.bears N.82 1/2° W.10.5 lks. dist.,marked 1/4 S 32 B T.
50.75	Top of spur 300 ft.high bears E.and W.
	Descend.
55.50	Bottom of ravine 150 ft.deep,course E.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Ascend.
62.00	Top of ridge 300 ft.above ravine,bears E.and W.
	Leave quakingasp timber bears E.and W.
	Enter heavy mahogany timber bears E.and W.
	Descend.
69.88	Intersect S.bdy.of Tp.at N.87°10' E.,1.51 ch.dist., from the old cor.of secs.4,5,32 and 33,heretofore described.
	Set a volcanic stone 15x10x6 ins.,10 ins.in the ground, for closing cor.of secs.32 and 33,marked with 4 grooves on E.and 2 grooves on W.faces,with C C on N.face;from which
	A mahogany 8 ins.dia.bears N.34° E.64 lks.dist., marked T 34 S R 7 W S 33 B T.
	A mahogany 8 ins.dia.bears N.26° W.65 lks.dist., marked T 34 S R 7 W S 32 B T.
	Note:-I destroy all marks on the old cor.of secs.4,5, 32 and 33,pertaining to secs.32 and 33,and further witness the cor.of secs.4 and 5 by marking bearing trees as follows:
	A mahogany 10 ins.dia.,bears S.41 3/4° E.112 lks. dist.,marked T 35 S R 7 W S 4 B T.
	A mahogany 8 ins.dia.bears S.62° W.,32 lks.dist., marked T 35 S R 7 W S 5 B T.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,quakingasp and mahogany.
	Undergrowth oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 69.88 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	From the cor.of secs.28,29,32 and 33,I run N.0°03' W.bet.secs.28 and 29.
	Over mountainous land;through dense sage and oak undergrowth.
	Ascend.
11.00	Top of ridge 200 ft.above sec.cor.,bears E.and SW.
	Descend.
11.25	Enter heavy pine timber bears E.and W.
27.35	Bottom of ravine 200 ft.below top of ridge,course NE.
	Ascend.
32.00	Top of ridge 100 ft.above ravine bears E.and W.
	Leave heavy pine and enter heavy quakingasp timber bears E.and W.
	Descend.
40.00	Set a volcanic stone 12x8x8 ins.,8 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 6 ins.dia.bears S.56 1/4° E.34 lks.dist. marked 1/4 S 28 B T.
	A quakingasp 8 ins.dia.bears N.29° W.18 lks.dist., marked 1/4 S 29 B T.
62.60	Old road bears SE and NW.
64.10	A hollow 25 ft.deep,course SE.
	Ascend.
70.00	Leave heavy and enter scattering timber bears NE and SW.
80.00	Set a volcanic stone 18x10x6 ins.,12 ins.in the ground, for cor.of secs.20,21,28 and 29,marked with 2 notches on S.and 4 notches on E.edges;from which
	A quakingasp 6 ins.dia.bears N.5 1/2° E.295 lks.dist., marked T 34 S R 7 W S 21 B T.
	A quakingasp 12 ins.dia.bears S.12°05' E.309 lks.dist. marked T 34 S R 7 W S 28 B T.
	A quakingasp 6 ins.dia.bears S.56°W.371 lks.dist.

Subdivision of T.34 S.,R.7 W.

Chains	
	marked T 34 S R 7 W S 29 B T.
	A quakingasp 5 ins.dia.bears N.49 1/4°W.155 lks.dist.,
	marked T 34 S R 7 W S 20 B T.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber pine and quakingasp.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 80.00 chs.
	August 28,1909:At this cor.I set off 9°45' N.on the decl.arc;and at 10h1mp.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°50' N., which is the proper lat.nearly.
	East on a random line bet.secs.21 and 28.
40.00	Set temp.1/4 sec.cor.
80.18	Intersect N.and S.line at 9 lks.S.of the cor.of secs. 21,22,27 and 28,heretofore described.
	Thence I run
	S.89°56' W.on a true line bet.secs.21 and 28.
	Over nearly level land;gradually ascending;through sage&c dense oak undergrowth .
5.00	Road bears S.80° E.and N.80° W.
9.10	Enter heavy quakingasp and scattering pine timber bears N.and S.
16.00	Top of spur 50 ft.high bears N.and S.
	Descend.
21.00	Bottom of ravine 50 ft.deep,course N.20° E.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Ascend.
26.00	S.point of spur bears N.70° W.
	Descend gradually.
39.00	Leave heavy and enter scattering quakingasp timber and scattering mahogany,bears NE and SW.
40.09	Set a volcanic stone 18x12x6 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 6 ins.dia.bears N.6 1/4° E.155 lks.dist., marked 1/4 S.21 B T.
	A quakingasp 7 ins.dia.bears S.3 1/2° W.85 lks.dist., marked 1/4 S 28 B T.
52.00	Enter heavy quakingasp and pine timber bears N.30° W.and S.
57.00	Ravine 20 ft.deep,course S.
	Ascend over E.slope of ridge.
69.40	Top of ridge 150 ft.above ravine bears N.and S.
	Leave heavy quakingasp and pine timber and enter heavy mahogany timber bears N. and S.
	Descend.
72.90	Enter heavy quakingasp and leave mahogany timber bears N.and S.
76.80.	Leave quakingasp timber bears N.20° W.and S.
80.18	The cor.of secs 20,21,28 and 29,about 100 ft.below top of ridge.
	Land mountainous and rolling.
	Soil,gravelly;3rd.and 2nd.rate.
	Timber,quakingasp pine and mahogany.
	Undergrowth oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.18 chs.
	August 28,1909.

Subdivision of T.34 S.,R.7 W.

Chains.	
	August 30,1909:I set off 37°50' N.on the lat.arc; 9°07' N.on the decl.arc;and at 8h1m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs.20, 21,28 and 29,heretofore described.
	Thence I run
	N.0°03' W.bet.secs.20 and 21.
	Over mountainous land;through dense oak and serviceberry and sage brush undergrowth.
	Gradually ascend.
2.20	Road to Panguitch bears NE and SW.
3.90	Enter heavy quakingasp timber bearsN.75°E.and S.25° W.
12.75	Top of ridge about 150 ft.above sec.cor.,bears N.70°W. and S.20°E.
13.25	Descend.
15.15	Bottom of ravine 30 ft.below top of ridge,course N.35°E.
	Ascend.
19.75	Leave quakingasp timber and enter scattering pine and mahogany bears NE and SW.
24.50	Top of ridge 50 ft.above ravine bears N.40° E.and S.40° W.
	Enter heavy pine and quakingasp timber bears N.40°E.and S.40°W.
	Descend.
31.25	Leave timber bears NW and SE.
33.95	Bottom of hollow,100 ft.below top of ridge,course N.60°E.
	Ascend gradually.
38.25	A spring bears N.77 1/2° E.about 15.00 chs.dist.
39.00	Enter heavy quakingasp timber bears S.10° W.and E.
40.00	Set a granite stone 16x12x4 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 12 ins.dia.bears N.73° E. 20 lks.dist., marked 1/4 S 21 B T.

Subdivision of T.34 S.,R.7 W.

Chains.	
	A quakingasp 10 ins.dia.bears N.70 1/2°W.15 lks.dist., marked 1/4 S 20 B T.
41.15	Begin ascent of S.slope of ridge bears E.and W.
43.75	Leave heavy quakingasp timber bears E.and W.
50.75	Top of spur 100 ft.above ravine bears S.60° W.and N. 60° E.
	Descend.
58.25	Bottom of ravine 25 ft.below top of spur,course S.W.
	Ascend.
65.00	Enter mahogany timber bears E.and W.
65.70	Top of divide ridge,150 ft.above ravine,bears N.70° E. and S.70° W.
	Descend over steep N.slope of ridge.
68.00	Enter heavy pine timber and leave mahogany bears E.and W.
75.00	Leave timber and enter ledges bears NE and SW.
76.00	Descend over ledges 250 ft.high,bears NE and SW.
76.50	Foot of ledges bears NE and SW.
	Enter heavy pine timber bears NE and SW.
	Descend abruptly over foot of ledges.
80.00	Set a volcanic stone 18x8x6 ins.,12 ins.in a mound of stone,for cor.of secs.16,17,20 and 21,marked with 3 notches on S.and 4 notches on E.edges;from which
	A quakingasp 7 ins.dia.bears N.57 1/2°E.20 lks.dist., marked T 34 S R 7 W S 16 B T.
	A pine 6 ins.dia.bears S.25° E.21 lks.dist., marked T 34 S R 7 W S 21 B T.
	A pine 12 ins.dia.bears S.52 1/2°W.30 lks.dist., marked T 34 S R 7 W S 20 B T.
	A pine 10 ins.dia.bears N.85 1/2° W.12 lks.dist., marked T 34 S R 7 W S 17 B T.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,quakingasp,pine and mahogany.
	Undergrowth,sage brush and oak.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Good grass for grazing except in ledges and N.foot of ledges.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	August 30,1909:The sky is overcast at the noon hour and solar observations are impossible.
	N.89°56' E.on a random line bet.secs.16 and 21.
40.00	Set temp.1/4 sec.cor.
80.08	Intersect N.and S.line at 9 lks.N.of the cor.of secs. 15,16,21 and 22.
	Thence I run
	West on a true line bet.secs.16 and 21.
	Over mountainous land;through heavy quakingasp and pine timber and dense oak and serviceberry undergrowth.
	Descend.
1.15	Bottom of hollow 15 ft.deep,course N.
	Ascend.
5.00	Top of spur 25 ft.high,bears N.and S.
	Descend.
8.10	Bottom of ravine 50 ft.deep,course NE.
	Ascend.
11.50	Leave heavy quakingasp and pine timber and enter scattering pine and mahogany timber bears N.30° W.and S.
22.50	Top of ridge 125 ft.above ravine,bears N.and S.
	Descend.
25.00	Enter heavy quakingasp timber bears S.70° E.and N.40°W.
34.00	Leave heavy quakingasp timber bears NE and S.
36.70	Enter heavy quakingasp timber bears N.and S.

Subdivision of T.34 S.,R.7 W.

Chains.	
40.04	Set a volcanic stone 16x8x6 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which A quakingasp 4 ins.dia.bears N.65° E.14 lks.dist., marked 1/4 S 16 B T. A quakingasp 7 ins.dia.,bears S.23°E.10 lks.dist., marked 1/4 S 21 B T.
44.30	Bottom of hollow 50 ft.below top of ridge,course S.20°E. Ascend.
49.30	Top of divide ridge,50 ft.above hollow,bears N.40° W.and S.40° E. Descend into canon,through heavy pine timber.
52.00	Bottom of canon 200 ft.below top of ridge,course N. 20° W. Thence along bottom of canon gradually ascending.
59.00	Begin ascent of ridge on W.side of canon,bears N.20° E. and S.20° E.
65.00	Top of ridge 250 ft.above bottom of canon,bears N.20° E.and S.20° W. Descend gradually.
73.10	Begin more rapid descent over broken ledges bears NE and SW. Leave heavy timber and enter scattering pine timber, bears NE and SW.
75.50	Descend over perpendicular ledges 300 ft.high,bears N. 20° E.and S.40° W. Thence over volcanic rocks at foot of ledges,descend abruptly.
79.00	Leave volcanic rocks at foot of ledges and descend gradually,bears NE and SW. Enter heavy pine and quakingasp timber bears NE and SW.
80.08	The cor.of secs.16,17,20 and 21,about 75 ft.below foot of ledges. Land mountainous.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Soil,gravelly and stony;2nd.and 4th.rate.
	Timber,quakingasp,pine and mahogany.
	Undergrowth,oak and serviceberry.
	Good grass for grazing except in ledges and volcanic rocks.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 80.08 chs.
	August 30,1909.

	August 31,1909:I set off 37°51' N.on the lat.arc; 8°45' N.on the decl.arc;and at 8h0m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs.16, 17,20 and 21,heretofore described.
	Thence I run
	N.0°03' W.bet.secs.16 and 17.
	Over mountainous land;through heavy pinne and scattering quakingasp timber and dense oak,serviceberry and chokecherry undergrowth.
	Descend.
5.25	Bottom of hollow,50 ft.below sec.cor.,course N.30° E.
	Old log road bears N.30° E.and S.30° W.
	Ascend.
15.00	Top of ridge 150 ft.above bottom of hollow,bearsN.40°E. and S.40° W.
	Leave heavy and enter scattering timber bears NE and SW.
	Descend.
40.00	Set a volcanic stone 14x11x6 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A yellow pine 18 ins.dia.bears S.75° E.42 lks.dist.

Subdivision of T.34 S.,R.7 W.

Chains.	
	marked 1/4 S 16 B T.
	A black pine 4 ins.dia.bears N.79° W.24 lks.dist., marked 1/4 S 17 B T.
45.00	Enter heavy pine and quakingasp timber bears E.and W.
	Descend abruptly over steep N.slope.
47.95	Bottom of ravine 100 ft.below $\frac{1}{4}$ Sec.cor.and 350 ft.below top of ridge ,course W.
	Stream 2 lks.wide 2 ins.deep,course W.about 4.00 chs. to swamp.
	Leave heavy and enter scattering pine timber bears E.and W.
	Ascend.
50.50	Old road bears S.40° E.and N.40° W.
52.50	Top of spur 25 ft.above ravine,bears S.40° E.and N.40° W. Old cabin bears W.about 225 lks.dist.
53.50	Old corral bears W.about 200 lks.dist.
72.95	Old road bears NE and SW.
77.40	Old fence bears E.and W.
80.00.	Set a volcanic stone 18x11x6 ins.,12 ins.in the ground, for cor.of secs.8,9,16 and 17,marked with 4 notches on the S.and 4 notches on the E.edges;from which
	A black pine 8 ins.dia.bears N.9 1/4° E.33.5 lks. dist.,marked T 34 S R 7 W S 9 B T.
	A black pine 8 ins.dia.bears S.26 1/2° E.35 lks.dist., marked T 34 S R 7 W S 16 B T.
	A black pine 10 ins.dia.bears S.17° W.17 lks.dist., marked T 34 S R 7 W S 17 B T.
	A black pine 6 ins.dia.bears N.26 1/2° W.49 lks.dist., marked T 34 S R 7 W S 8 B T.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,quakingasp and pine;some yellow pine saw timber on S.half mile.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Undergrowth,Oak,serviceberry and chokecherry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	East on a random line bet.secs.9 and 16.
40.00	Set temp.1/4 sec.cor.
80.00	Intersect N.and S.line at 9 lks.S.of the cor.of secs. 9,10,15 and 16,heretofore described.
	Thence I run
	S.89°56' W.on a true line bet.secs.9 and 16.
	Over mountainous land;through scattering pine timber and dense serviceberry,oak and chokecherry undergrowth.
6.50	Ravine 15 ft.deep,course N.20° W. Ascend.
10.50	Top of spur 15 ft.high bears N.20° W.and S.20° E.
	Descend.
16.50	Enter heavy quakingasp timber bears N.and S.
19.00	Leave quakingasp timber bears NE and SW.
	Continue in scattering pine timber.
25.65	Bottom of canon 150 ft.below sec.cor.,and creek 1 lk. wide and 1 inch deep,course NE.
	Ascend.
38.50	Top of ridge.150 ft.above bottom of canon,bears N.and S.
	Descend.
40.00	Set a granite stone 18x10x4 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A black pine 36 ins.dia.bears N.11 3/4°W.220 lks. dist.,marked 1/4 S 9 B T.
	A black pine 8 ins.dia.bears S.63 1/2°W.138 lks.dist.

Subdivision of T.34 S.,R.7 W.

Chains.	
	marked 1/4 S 16 B T.
44.00	Old road and trail bears S.60° W.and N.40° E.
45.00	Bottom of ravine 75 ft.below top of ridge,course N.
	Ascend.
47.50	Top of ridge 100 ft.above ravine,bears N.and S.
	Descend.
51.40	Bottom of ravine 75 ft.below top of ridge,course N.20°W.
	Ascend.
61.25	Top of ridge 50 ft.above ravine bears N.and S.
	Leave scattering timber bears N.and S.
	Descend.
68.40	Bottom of ravine 50 ft.below top of ridge,course N.
	Ascend.
71.50	Top of spur 25 ft.above ravine,bears N.and S.
	Descend gradually.
79.00	Enter scattering pine timber bears N and S.
80.00	The cor.of secs.8,9,16 and 17.
	Land mountainous.
	Soil,gravelly ,2nd.rate.
	Timber,quakingasp and pine.
	Undergrowth,serviceberry,oak and chokecherry brush,with
	scattering sage brush on W.half mile.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered
	with dense undergrowth 80.00 chs.
	August 31,1909:At this cor.the sky is overcast at the
	noon hour and solar observation impossible.

Subdivision of T.34 S.,R.7 W.

Chains	
	N.0°03' W.bet.secs.8 and 9.
	Over mountainous land;through scattering pine timber and dense oak,chokecherry,serviceberry and sage undergrowth.
	Descend gradually.
25.00	A small spring branch bears E.of line about 15.00 chs. dist.
30.60	Begin more rapid descent into canon bears N.15° E.and S.15° W.
31.00	Ravine about 15 ft.deep,course NW. Continue descent.
35.00	Enter heavy pine and quakingasp timber bears NE and SW.
39.50	Bottom of canon 250 ft.below sec.cor.,and creek 2 lks. wide,2 ins.deep,course N.75° E.
	Ascend.
40.00	Set a volcanic stone 16x10x6 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 4 ins.dia.bears S.68° E.40 lks.dist., marked 1/4 S 9' B T.
	A quakingasp 8 ins.dia.,bears S.58° W.15 lks.dist., marked 1/4 S 8' B T.
	Leave heavy and enter scattering timber bears NE and SW.
47.50	Top of spur 75 ft.above creek bears NE and SW.
	Descend.
54.00	Descend over broken ledges bears NE and SW.
54.50	Leave ledges bears NE and SW.
60.00	Creek at foot of ridge about 150 ft.below top of spur, 2 lks.wide,3 ins.deep,course NW.
61.10	Creek 1 lk.wide 1 inch deep,course N.50° W.
	Ascend.
65.00	Top of spur 25 ft.above creek,bears S.40° E.and N.40° W.
	Descend.
69.00	Creek in bottom of canon 50 ft.below top of spur,8 lks. wide,3 ins.deep,course W.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Leave quakingasp and pine timber bears E.and W.
	Ascend.
71.25	Old road and trail bears E.and W.
	Leave oak and serviceberry undergrowth and enter dense sage brush bears E.and W.
75.75	Top of spur 50 ft.above creek bears E.and W.
	Descend.
78.70	Wash 8 lks.wide 4 ft.deep,in bottom of ravine,25 ft.below top of spur,course N.80° W.
	Ascend.
80.00	Set a volcanic stone 18x10x8 ins.,12 ins.in the ground, for cor.of secs.4,5,8 and 9,marked with 5 notches on the S.and 4 notches on the E.edges;and raise a mound of stone 2 ft.base,1 1/2 ft.high W.of cor.
	Pits impracticable.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber,quakingasp and pine,with cottonwood along creek.
	Undergrowth,oak,sage brush,serviceberry brush,with birch and willows along the creeks.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.

	N.89°56' E.on a random line bet.secs.4 and 9.
40.00	Set temp.1/4 sec.cor.
80.02	Intersect N.and S.line at 19 lks.N.of the cor.of secs. 3,4,9 and 10,heretofore described.
	Thence I run

Subdivision of T.34 S.,R.7 W.

Chains.	
	N.89°56' W.on a true line bet.secs.4 and 9.
	Over nearly level land sloping W.from foot of Little Creek Peak;through dense sage brush and scattering oak and serviceberry undergrowth.
	Descend gradually.
15.00	A knoll about 100 ft.high bears S. of line about 10.00 chs.dist.
35.00	A knoll about 100 ft.high bears S.of line about 7.00 chs.dist.
40.01	Set a granite stone 12x10x8 ins.,8 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A mahogany 12 ins.dia.bears S.25 1/4° W.225 lks.dist. marked 1/4 S 9 B T.
	No other trees within limits;raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
	Pits impracticable.
70.35	Wash 10 lks.wide and 6 ft.deep,course S.60° W.
	Ascend.
76.50	Top of spur about 30 ft.above wash,bears N.and S.
	Descend.
80.02	The cor.°f secs.4,5,8 and 9,about 20 ft.below spur.
	Land sloping W.from foot of Little Creek Peak,nearly leve and rolling.
	Soil,gravelly;2nd.rate.
	No timber except a few scattering mahogany trees on W.half mile.
	Undergrowth,dense sage brush and scattering serviceberry and oak.
	Good grass and shrubbery for grazing.
	Land covered with dense undergrowth 80.02 chs.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Note:-For reasons already explained,I run N.0° 03' W.on a true line bet.secs.4 and 5.
	Over mountainous land;through dense sage brush and scattering mahogany,oak and serviceberry undergrowth.
	Ascend steep S.slope of ridge.
10.80	Top of ridge about 150 ft.above sec.cor.,bears N.60°E. and S.60° W.
	Descend over steep N.slope of ridge.
20.00	Foot of ridge about 100 ft.below top of ridge bears E. and W.
	Descend more gradually.
27.05	Intersect N.bdy.of Tp.at N.89°47' E.6.35 chs.dist.,from the old 1/4 sec.cor.on S.bdy.sec.33,heretofore described, at which point of intersection
	Set a volcanic stone 16x12x4 ins.,11 ins.in the ground, for closing cor.of seccs.4 and 5,marked with 4 grooves on E.and 2 grooves on W.faces with C C on S.face;and raise a mound of stone 2 ft.base,1 1/2 ft.high S.of cor.
	Pits impracticable.
	Land mountainous and sloping foot hill.
	Soil,gravelly and stony;3rd.and 4th.rate.
	No timber except a few trees of mahogany and pine along the ridge.
	Undergrowth,dense sage brush and scattering oak,serviceberry and mahogany brush.
	Good grass and shrubbery for grazing.
	Mountainous land or land covered with dense undergrowth 27.05 chs.

August 31,1909.

Subdivision of T.34 S/,R.7 W.

Chains.	
	September 1,1909:I set off 37°49'-N.on the lat.arc; 8°23' N.on the decl.arc;and at 9h0ma.m.,l.m.t.,determine a meridian with the solar,at the cor.of secs. 29,30,31 and 32,heretofore described.
	Thence I run
	S.0°03' E.on a true line bet.secs.31 and 32.
	Over mountainous land;through heavy quakingasp and scattering pine timber and dense oak undergrowth.
	Ascend.
40.00	Set a volcanic stone 15x15x10 ins.,10 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 6 ins.dia.bears S.78 1/4° E.50 lks.dist., marked 1/4 S 32 B T..
	A quakingasp 8 ins.dia.bears S.11 3/4° W.72 lks. dist.,marked 1/4 S 31 B T.
40.75	Top of ridge 400 ft.above sec.cor.,beasrs NE and SW.
	Descend.
57.00	Bottom of ravine 200 ft.below top of ridge,course SW.
	Creek in bottom of ravine 1 lk.wide,1 inch deep.
	Ascend.
65.20	Leave heavy and enter scattering quakingasp timber bears NE and SW.
73.75	Intersect S.bdy.of Tp.at 3.98 chs.dist.N.87°10' E.from the old cor.of secs.5,6,31 and 32,heretofore described.
	Set a volcanic stone 15x10x6 ins.,10 ins.in the ground, for closing cor.of secs.31 and 32 ,marked with 5 grooves on E.and 1 groove on W.faces with C C on N.face; from which
	A quakingasp 6 ins.dia.bears N.51 1/2° E.44 lks. dist.,marked T 34 S R 7 W S 32 B T.
	A quakingasp 6 ins.dia.,bears N.52 3/4°W.9 lks.dist., marked T 34 S R 7 W S 31 B T.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Note:-I destroy all marks on the old cor.of secs. 5,6,31 and 32 pertaining to secs.31 and 32.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber,quakingasp and pine.
	Undergrowth,oak.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth on 73.75 chs.
	September 1,1909:At the cor.of secs.29,30,31 and 32 I set off 8°20' N.on the decl.arc;and at 12h0m M,l.m.t., observe the sun on the meridian;the resulting lat.is 37°49' N.,which is the proper lat.nearly.
	Thence I run
	N.0°03' W.bet.secs.29 and 30.
	Over mountainous land;through heavy quakingasp and pine timber,and dense oak and serviceberry undergrowth.
	Descend.
25.00	Hollow 150 ft.below the sec.cor.,course SW.
	Ascend.
31.00	Road bears NE.and SW.
40.00	Set a sandstone 18x10x4 ins.,12 ins.in the ground for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A quakingasp 12 ins.dia.bears N.30 1/4° E.20 lks. dist.,marked 1/4 S 29 B T.
	A quakingasp 10 ins.dia.bears S.60°W.10 lks.dist., marked 1/4 S 30 B T.
43.00	Top of divide ridge 250 ft.above ravine,bears NE and SW.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Descend.
66.60	Road at foot of ridge 300 ft.below top of ridge,bears E&W.
	Descend more gradually
71.50	Leave timber bears NE and SW.
	Pasture fence bears NE.and SW and enter pasture.
	Leave oak undergrowth and enter dense willows and and serviceberry brush,bears NE and SW.
74.00	Creek 2 lks.wide,2 ins.deep,course NW.
74.50	Leave willows and enter heavy quakingasp timber bears Nw and SE.
77.50	William Williamson's pasture fence bears NW and SE., and leave pasture.
80.00	Set a volcanic stone 24x8x6 ins.,18 ins.in the ground, for cor.of secs. 19,20,29 and 30,marked with 2 notches on S.and 5 notches on E.edges;from which
	A quakingasp 5 ins.dia:,bears N.77 1/2°E.28 lks.dist., marked T 34 S R 7 W S 20 B T.
	A quakingasp 8 ins.dia.bears S.67 1/2° E.27 lks.dist., marked T 34 S R 7 W S 29 B T.
	A quakingasp 10 ins.dia.bears S.59 1/4° W.20 lks.dist., marked T 34.S R 7 W S.30 B.T.
	A quakingasp 8 ins.dia.bears N.62 3/4°W.23 lks.dist., marked T 34 S R 7 W S 19 B.T.
	William Williamson's cabin bears N.69° W.about 5.50 chs. dist.;corral NW of cabin.;dairy house adjoins cabin on SW.
	Land mountainous.
	Soil,gravelly;2nd.rate;loam 1st.rate in pasture.
	Timber quakingasp and pine.
	Undergrowth,oak and serviceberry brush,with willows in pasture.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.00 chs.
	September 1,1909.

Subdivision of T.34 S.,R.7 W.

Chains.	
	September 2,1909:I set off 37°50' N.on the lat.arc; 80°01' N.on the decl.arc;and at 9h0ma.m.l.m.t.,determine a meridian with the solar at the cor.of secs.19,20,29 and 30,heretofore described.
	Thence I run
	East on a random line bet.secs. 20 and 29.
40.00	Set temp.1/4 sec.cor.
80.16	Intersect N.and S.line at 7 lks.S.of the cor.of secs. 20,21,28 and 29,heretofore described.
	Thence I run
	S.89°57' W.on a true line bet.secs.20 and 29.
	Over mountainous land;through dense oak undergrowth.
	Ascend gradually.
2.30	Road to Panguitch bears NE and SW.
5.00	Enter heavy quakingasp and scattering pine timber,bears NE and SW.
25.00	Begin ascent of ridge bears NE and SW.about 100 ft.above the sec.cor.
40.08	Set a white sandstone 30x6x4 ins.,23 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A quakingasp 4 ins.dia.bears N.55° E.97 lks.dist., marked 1/4 S 20 B T.
	A quakingasp 4 ins.dia.bears S.10 1/4°E.160 lks.dist. marked 1/4 S 29 B T.
41.50	Top of divide ridge 350 ft.high,bears N.and S.
	Descend abruptly.
53.10	Descend over perpendicular ledges about 150 ft.high bears N.and S.
	Thence more gradual descent over W.slope of ridge.
80.16	The cor.of secs.19,20,29 and 30,about 400 ft.below top of divide ridge.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 4th.rate.

Subdivision of T.34 S.,R.7 W.

Chains.

Timber,quakingasp and pine.

Undergrowth oak and serviceberry brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 80.16 chs.

September 2,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.

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

Over nearly level land;through heavy quakingasp timber and oak and serviceberry undergrowth.

Descend gradually.

1.80 William Williamson's pasture fence and enter pasture bears S.30° E.and N.30° W.

4.45 Creek 2 lks.wide and 2 ins.deep,course NW.

6.20 Creek 3 lks.wide,3 ins.deep,course N.W.

Leave timber bears N.and S.

10.65 Creek in bottom of hollow about 50 ft.below sec.cor. and about 6 ft.deep,2 lks.wide and 2 ins.deep,course N.

Ascend.

12.25 Pasture fence and leave pasture bears NE and SW.

17.75 Road bears NE and SW.

20.50 Road bears N.75° E.and S.75° W.

21.50 Begin ascent of ridge bears NE and SW.

Enter scattering pine,quakingasp and balsam timber bears N.and S.

35.50 From this point on line William Williamson's cabin bears N.86°20' E.about 31.50 chs.dist.

40.00 Top of ridge about 300 ft.high,bears N.and S.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Set a volcanic stone 25x12x6 ins.,19 ins.in the ground, for 1/4 sec.cor.,marked 1/4.on N.face; from which
	A red pine 8 ins.dia.bears S.31° E.63 lks.dist., marked 1/4 S 30 B T.
	A balsam 6 ins.dia.bears N.20 W.45 lks.dist., marked 1/4 S 19 B.T.
	Enter heavy pine,quakingasp and balsam timber bears N. and S.
	Descend.
70.00	Road bears N.30° E.and S.30° W.
71.65	Bottom of hollow 350 ft.below top of ridge,course N.
	Ascend.
76.00	Top of ridge 100 ft.high bears N.and S.
	Descend.
80.50	Creek in bottom of hollow;100 ft.below top of ridge, clear fresh water,5 lks.wide and 8 inches deep,course N.20° E.
	Ascend.
141.38	Top of ridge 400 ft.above creek,bears N.20° W.and S.20° E.
	Descend.
148.65	Intersect W.bdy.of Tp.at N.20°50' W.,4.40 chs.dist., from the 1/4 sec.cor.on E.bdy.of sec.24,heretofore des. Set a granite stone 14x12x4 ins.,16 ins.in the ground, for closing cor.of secs.19 and 30,marked with 2 grooves on S.and 4 grooves on N.faces with C C on E.face;from which
	A quakingasp 4 ins.dia.bears N.20 3/4° E.14 lks.dist., marked T 34 S R 7 W S 19 B T.
	A quakingasp 4 ins.dia.bears S.37 1/4° E.25 lks.dist., marked T 34 S R 7 W S 30 B T.
	Land mountainous,with 21.50 chs.nearly level land on first half mile.

Subdivision of T.34 S.,R.7 W.

Chains	
	Soil,gravelly and stony;2nd.and 3rd.rate;in pasture gravelly loam 1st.rate.
	Timber,quakingasp,pine and balsam.
	Undergrowth,oak,serviceberry brush with willows in pasture.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 148.05 chs.
	September.2,1909.

	September.3,1909:I set off 37°50' N.on the lat.arc; 7°40' N.on the decl.arc;and at 7h59m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs.19,20, 29 and 30,heretofore described.
	Thence I run
	N.0°03' W.bet.secs.19 and 20.
	Over mountainous land;through heavy quakingasp and scattering pine timber and dense oak and serviceberry undergrowth.
	Ascend.
5.00	Leave timber bears NE and SW.
11.00	Enter heavy quakingasp and scattering pine timber bears E.and W.
16.00	Top of spur 50 ft.above sec.cor.,bears N.75° W.and S. 75° E.
	Descend.
20.00	Bottom of hollow 75 ft.below top of spur,course S.75°W.
	Ascend.
38.25	Leave heavy and enter scattering timber bears E.and W.

Subdivision of T.34 S.,R.7 W.

Chains.	
40.00	Set a volcanic stone 18x10x8 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A yellow pine 30 ins.dia.bears S.14 1/4° W. 210 lks. dist.,marked 1/4 S 19 B T.
	A quakingasp 6 ins.dia.bears S.13 3/4° E.194 lks. dist.,marked 1/4 S 20 B T.
42.50	Top of spur 50 ft.above hollow,bears E.and W.
	Descend.
47.50	Enter heavy pine,balsam and scattering quakingasp timber bears E. and W.
66.00	Bottom of hollow 150 ft.below top of spur,course NE.
	Ascend.
67.30	Road to Paragoonah bears NE and SW.
77.30	Top of spur 50 ft.above hollow,bears E.and W.
80.00	Set a volcanic stone 20x12x8 ins.,15 ins.in a mound of stone,on top of ledge about 10 ft.high,for cor.of secs. 17,18,19 and 20,marked with 3 notches on S.and 5 notches on E.edges;from which
	A yellow pine 15 ins.dia.bears N.75.1/4° E.95 lks. dist.,marked T 34 S R 7 W S 17 B T.
	A balsam 6 ins.dia.bears S.28 3/4° E.50 lks.dist., marked T 34 S R 7 W S 20 B T.
	A red pine 12 ins.dia.bears S.48 3/4° W.90 lks.dist., marked T 34 S R 7 W S 19 B T.
	A quakingasp 5 ins.dia.bears N.41 3/4° W.11 lks.dist. marked T 34 S R 7 W S 17 B T.
	Corner about 25 ft.below top of spur.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,quakingasp,pine and balsam.
	Undergrowth,oak and serviceberry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered

Chains.	
	with dense undergrowth 80.00 chs.
	N.89°57' E.on a random line bet.secs.17 and 20.
40.00	Set temp.1/4 sec.cor.
80.24	Intersect N.and S.line at 7 lks.N.of the cor.of secs. 16,17,20 and 21,heretofore described.
	September 3,1909:At this cor.I set off 7°36' N.on the decl.arc;and at 11h59m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37°51'N. which is the proper lat.nearly.
	Thence I run.
	West on a true line bet.secs.17 and 20.
	Over mountainous land;through heavy pine and quakingasp timber and dense oak,serviceberry and choke cherry undergrowth.
	Ascend.
11.85	Top of rocky spur 25 ft.above sec.cor.bears N.and S.
	Descend.
13.35	Bottom of ravine 30 ft.deep,course N.
	Ascend.
17.35	Top of ridge 50 ft.above ravine,bears N.and S.
	Leave heavy and enter scattering timber bears N.and S.
19.85	Enter heavy quakingasp and leave scattering pine timber bears N.and S.
38.35	Bottom of ravine 150 ft.below top of ridge,course N.20° E.
	Ascend.
39.00	Leave heavy quakingasp timber and enter scattering pine and mahogany timber bears N.20° E.and S.20°W.

Subdivision of T.34 S.,R.7 W.

Chains.	
40.12	Set a granite stone 14x12x10 ins.,10 ins.in a mound of stone on solid rock,for 1/4 sec.cor.marked 1/4 on N. face;from which
	A mahogany 12 ins.dia.bears S.52 3/4° W.51 lks.dist., marked 1/4 S 20 B T.;
	A mahogany 6 ins.dia.bears N.7 1/2° W.35 lks.dist., marked 1/4 S 17 B T.
41.15	Top of ridge 100 ft.above ravine bears N.20° E.and S.20° W.
	Descend.
43.00	Enter heavy pine and quakingasp timber and leave mahogany timber bears N.20° E.and S.20° W.
63.10	Road bears N.20° E.and S.20° W.
63.40	Leave heavy quakingasp and pine timber and enter scattering quakingasp and medium dense pine timber,bears N.20° E.and S.20° W.
68.00	Bottom of ravine 200 ft.below top of ridge ,course N.
	Ascend.
71.80	Top of ridge 40 ft.above ravine,bears N.and S.
	Descend.
77.20	Bottom of ravine 50 ft.below top of ridge,course N.
	Ascend.
80.00	Ascend over ledge 10 ft.high,bears N.and S.
80.24	Cor.of secs.17,18,19 and 20,on ledge 10 ft.high,and 50 ft.above ravine.
	Land mountainous.
	Soil,stony and gravelly;4th.and 3rd.rate.
	Timber,quakingasp,pine and mahogany.
	Undergrowth,oak,serviceberry and chokecherry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.24 chs.

September 3,1909.

Subdivision of T.34 S.,R.7 W.

Chains.	
	September 4,1909:I set off 37°51' N.on the lat.arc; 7°18'.N.on the decl.arc; ant at 7h59m a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs. 17,18,19 and 20,heretofore described.
	Thence I run
	West on a true line bet.secs.18 and 19.
	Over mountainous land ;through heavy pine and scattering quakingasp. timber,and dense oak,serviceberry and choke cherry undergrowth.
	Ascend.
14.40	Top of spur 50 ft.above the sec.cor.,bears NE and SW.
	Descend abruptly into canon.
20.00	Enter heavy quakingasp timber and continue in pine timber bears N.and S.
23.50	Bottom of canon 250 ft.below top of ridge,and creek 3 lks.wide,2 ins.deep,clear fresh water,course N.20°W.
	Ascend.
40.00	Set a volcanic stone 18x8x8 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face ;from which
	A quakingasp 6 ins.dia.bears N.44°E.22 lks.dist., marked 1/4 S 18 B T.
	A quakingasp 6 ins.dia.bears S.10 1/2°W.13 lks.dist., marked 1/4 S 19 B T.
48.00	Top of spur 100 ft.above creek,bears N.35° W.and S. 35° E.
	Descend into canon.
59.75	Bottom of canon 125 ft.below top of spur,and creek 5 lks. wide,6 ins.deep,clears fresh water,course N.10° E.
	Ascend.

Subdivision of T.34 S.,R.7 W.

Chains.	
60.50	Road bears N.10° E.and S.10° W.
	Leave heavy and enter scattering timber and continue in dense undergrowth,bears N.10° E.and S.10° W.
72.80	From this point on line:
	Old shingle mill bears S.27°20' E.about 20.00 chs. distant.
	Cabin bears S.20°30' E.about 20.00 chs.dist.;
	Old saw mill bears S.11°15' E.about 30.00 chs.dist.
	Cabin bears S.2°45' E.about 30.00 chs.dist.;
	Old corral bears S.5°05' E.about 28.00 chs.dist.;
	Cabin bears S.5°45' E.about 33.00 chs.dist.
105.00	Top of ridge about 300 ft.above the creek,bears NE and SW.
	Enter heavy pine and quakingasp timber bears NE and SW.
	Descend.
135.00	Bottom of hollow 150 ft.below top of ridge,course N. 80° E.and S.80° W.
	Ascend gradually.
145.00	A small lake about 50 lks.dia.,bears 60 lks.S.of line.
149.30	Intersect W.bdy.of TP at N.10°20' E.,5.00 chs.dist., from the old 1/4 cor.of sec.13,heretofore described.
	Set a granite stone 16x14x4 ins.,11 ins.in the ground, for closing cor.of secs.18 and 19;marked with 3 grooves on S.and 3 grooves on N.faces,with C C on E.face;from which
	A quakingasp 6 ins.dia.bears N.38 1/2° E.40.5 lks. dist.,marked T 34 S R 7 W S 18 B T.
	A quakingasp 6 ins.dia.bears S.48° E.15.5 lks.dist., marked T 34 S R 7 W S 19 B T.
	Land mountainous.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,quakingasp and pine.
	Undergrowth,oak,serviceberry and chokecherry,with birch

Chains.	
	and willows along the creeks.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 149.80 chs.
	September 4,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.
	N.0°03' W.bet.secs.17 and 18
	Over mountainous land;through heavy pine and quakingasp timber and dense oak,serviceberry and chokecherry undergrowth.
	Descend over broken ledges.
1.00	Foot of ledges 15 ft.below sec.cor.bears SE and S.80°W.
11.20	Creek in bottom of ravine 200 ft.below sec.cor.,2 lks. wide and 3 ins.deep,course NW.
	Ascend.
26.25	Top of spur 150 ft.above creek,bears NW and SE.
	Descend.
40.00	Set a volcanic stone 22x12x8 ins.,19 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A yellow pine 18 ins.dia.bears N.47° E.117 lks.dist., marked 1/4 S 17 B.T.
	A quakingasp 6 ins.dia.bears S.82° E.62 lks.dist., marked 1/4 S 18 B.T.
41.55	Creek in bottom of hollow,200 ft.below top of spur, 4 lks.wide,3 ins.deep,clear.fresh water,course NW.
	Ascend.
43.00	Leave heavy and enter scattering timber bears NW and SE.
58.00	Top of flat ridge about 150 ft.above creek,bears S.25°E. and N.25°W.

Subdivision of T.34 S.,R.7 W.

Chains	
	Leave timber bears SE and NW.
	Descend into swale.
70.00	Enter swale about 10 ft.below top of ridge,course N.
80.00	Set a volcanic stone 18x12x8 ins.,12 ins.in the ground, for cor.of secs.7,8,17 and 18,marked with 4 notches on the S.and 5 notches on E.edges;and raise a mound of stone 2 ft.base 1 1/2 ft.high W.of cor.
	Pits impracticable.
	Cor.in bottom of swale about 15 ft.below top of ridge with course NW from corner.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber,quakingasp and pine.
	Undergrowth,oak,serviceberry and chokecherry;and sage brush on last 18.00 chs.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth . 80.00 chs.
	September 4,1909.

September 6,1909:I set off 37°52' N.on the lat.arc; 6°31' N.on the decl.arc;and at 9h58' a.m.,l.m.t.,determine a meridian with the solar at the cor.of secs.7,8, 17 and 18,heretofore described.

Thence I run

East on a random line bet.secs.8 and 17.

40.00	Set temp.1/4 sec.cor.
80.28	Intersect N.and S.line at 12 lks.N.of the cor.of secs. 8,9,16 and 17,heretofore described.

Thence I run

Subdivision of T.34 S.,R.7 W.

Chains.	
	N.89°35' W.on a true line bet.secs.8 and 17.
	Over mountainous land;through heavy pine and scattering quakingasp timber and dense oak,serviceberry,chokecherry and sage brush undergrowth.
	Descend.
4.60	Creek in bottom of ravine 50 ft.below the sec.cor., 2 lks.wide,2 ins.deep,course N.20° E.
	Ascend.
7.00	Top of spur 50 ft.above creek,bears N.35° E.and S.35°W.
	Descend.
16.60	Creek 1 link wide,1 inch deep,course N.
19.90	Old road bears N.and S.
25.80	Bottom of canon 150 ft.below top of spur,and creek 2 lks. wide,2 ins.deep,course N.35° E.
	Ascend.
28.50	Road bears N.and S.
33.20	Small spring on line;enter bog bears N.and S.
36.25	Leave bog bears N.and S.
39.50	Old road bears S.20° E.and N.20° W.
40.14	Set a volcanic stone 16x10x6 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face; from which
	A quakingasp 6 ins.dia.bears N.42 1/4° E.20 lks. dist.,marked 1/4 S 8 B T.
	A quakingasp 6 ins.dia.bears S.12 1/2° E.20 lks.dist., marked 1/4 S 17 B T.
42.20	Wash in bottom of hollow 100 ft.below top of ridge, 10 lks.wide,15 ft.deep,course NW.
	Ascend.
49.00	Top of spur 50 ft.high,bears N.and S.
	Descend.
52.50	Bottom of canon 50 ft.below top of spur,and wash 20 lks. wide,4 ft.deep,course NE.
	Ascend.
53.50	Leave quakingasp and pine timber and enter heavy mahogany

Subdivision of T.34 S.,R.7 W.

Chains.	
	and dense sage brush undergrowth bears N.and S.
60.20	Cross bend of wash 8 lks.wide 3 ft.deep,course N.80° E.
65.00	Same wash 6 lks.wide 3 ft.deep,course N.30° E.
69.00	Top of spur 25 ft.high,bears N.and S.
	Continue ascent of ridge.
77.00	Top of ridge 250 ft.above bottom of canon,bears N.and S.
	Leave mahogany timber and undergrowth and continue in dense sage brush and oak bears N.and S.
	Descend into swale.
80.28	The cor.of secs.7,8,17 and 18,in bottom of swale about 15 ft.below top of ridge.
	Land mountainous.
	Soil,gravelly ;2nd.rate.
	Timber,quakingasp ,pine and mahogany.
	Undergrowth,oak,serviceberry,sage brush and chokecherry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 80.28 chs.
	September 6,1909:I set off 6°29' N.on the decl.arc;and at 11h58m a.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is 37°52' N.,which is the proper lat. nearly.

	West on a true line bet.secs.7 and 18.-
	Over mountainous land;through dense sagebrush,oak and serviceberry brush and scattering mahogany. Ascend.
2.25	N.end of spur 20 ft.above sec.cor.,bears S.
	Descend.

Subdivision of T.34 S., R.7 W.

Chains.	
3.00	Enter scattering pine and cedar timber bears N. and S.
11.60	Old road and wash in bottom of hollow, 75 ft. below top of spur; road bears N.20° E. and S.20° W.; wash 8 lks. wide, 4 ft. deep, course S.20° W.
12.90	Wash 3 ft. wide 2 ft. deep, course S.20° W.
	Ascend.
16.95	Wash 10 lks. wide, 4 ft. deep, course S.
20.00	From this point on line:
	Old cabin bears S.5°57' W. about 30.00 chs. dist.;
	Old cabin bears S.6°37' W. about 32.00 chs. dist.;
	Old cabin bears S.7°35' W. about 30.00 chs. dist.
	Old shingle mill bears S.2° W. about 29.00 chs. dist.
21.00	Top of spur about 50 ft. high, bears N.20° E. and S.20° W.
	Descend.
25.00	Foot of ridge about 75 ft. below top of spur, bears N.20° E. and S.20° W.
	Leave timber bears N.20° E. and S.20° W.
	Ascend more gradually.
28.30	To margin of Paragoonah or Red Creek Reservoir at high water mark; bears N.44°15'W. and S.14°W.
	Set a trachyte stone 16x12x5 ins., 11 ins. in the ground, for witness corner to 1/4 sec. cor. marked 1/4 and W C on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
	Pits impracticable.
	Note: The point for the 1/4 sec. cor. falls in the reservoir and cannot be set.
28.45	Road bears N.10°W. and S.10° E.
	Note:- In order to pass around reservoir I run offset line as follows:
	Begin at witness cor. for 1/4 sec. cor. at 28.30 chs. W. of the cor. of secs. 7, 8, 17 and 18, and run S.13.00 chs.; thence W.15.08 chs.; thence N.13.00 chs., at
43.38	To W. margin of Paragoonah or Red Creek Reservoir, bears

Subdivision of T.34 S.,R.7 W.

Chains.	
	N.33½° W. and S.33½° E.
	Set a trachyte stone 22x14x6 ins.,17 ins.in the ground, for witness cor.to 1/4 sec.cor.,marked 1/4 and WC on N. face;and raise a mound of stone 2 ft.base,1 1/2 ft.high N.of cor.
	Pits impracticable.
	Ascend E.slope of ridge;through dense oak,serviceberry and sage brush undergrowth and scattering pine and quaking asp timber.
55.70	Creek 2 lks.wide,3 ins.deep,course N.50° E.
67.00	Cross S.end of bog about 50 lks.wide and 5.00 chs.long N.and S.
72.75	Enter small grove of quakingasp timber bears N.and S.
75.00	Leave grove of quakingasp timber bears N.and S.
	Old sheep corrall about 50 lks.wide 100 lks.S.of line.
86.45	Old road and trail bears SE and NW.
97.00	Enter small grove of balsam timber bears N.and S.
98.00	Leave grove of balsam timber bears N.and S.
112.00	Top of ridge,about 350 ft.above Paragoonah or Red Creek Reservoir, bears N.70°W. and S.70°E.
	Descend.
120.00	A pond about 2.50 chs.long E.and W.and 1.00 chn. wide N.and S.bears S.of line about 2.00 chs.
124.50	Bottom of hollow 100 ft.below top of ridge,course N.
	A pond about 1.ch.long and 1.ch.wide,bears S.of line about100 lks.dist.
134.00	Top of ridge about 50 ft.above hollow,bears N.10° W.and S.10° E.
	Descend gradually.
147.88	Intersect W.bdy.of Tp.at N.19°20' E.,6.11 chs.dist.,from the new 1/4 sec.cor.on E.bdy.of sec.12,heretofore described.
	Set a granite stone 14x12x4 ins.,10 ins.in the ground,

Subdivision of T.34 S.,R.7 W.

Chains.	
	for closing cor.of secs.7 and 18,marked with 4 grooves on the S.and 2 grooves on the N.faces,with C C on E. face;and raised a mound of stone 2 ft.base 1 1/2 ft.high E.of cor.
	Pits impracticable.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber,quakingasp,pine,balsam,and mahogany.
	Undergrowth,sage brush,oak,and serviceberry brush.
	Good grass for grazing extending to lines both E.and W. of Reservoir.
	Mountainous or heavily timbered land or land covered with dense undergrowth 132.80 chs.
	Distance across reservoir 15.68 chs.
	September 6,1909.

September 7,1909:I set off 37°52' N.on the lat.arc; 6°9' N.on the decl.arc;and at 9h58m a.m.l.m.t.,determine a meridian with the solar at the cor.of secs.7,8, 17 and 18,heretofore described.

	Thence I run
	N.0°03' W.bet.secs.7 and 8.
	Over mountainous land;through dense oak,sage and serviceberry brush.
	Ascend.
2.10	Top of ridge 50 ft.above sec.cor.bears E.and NW.
	Descend.
26.00	Bottom of ravine about 300 ft.below top of ridge,course NE.
	Ascend.

Subdivision of T.34 S.,R.7 W.

Chains.	
26.20	Road bears NE and SW.
30.00	Enter scattering pine timber bears NE and SW.
40.00	Set a volcanic stone 16x10x4 ins.,11 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on W.face;from which
	A pinion pine 6 ins.dia.bears S.8 3/4° E.67 lks.dist., marked 1/4 S 8 B T.
	A pinion pine 8 ins.dia.bears S.77 1/2° W.161 lks. dist.,marked 1/4 S 7 B T.
48.10	Top of ridge 250 ft. above ravine,bears E.and W.
	Descend.
76.00	Bottom of ravine 150 ft.below top of ridge,course NE.
	Leave scattering timber bears NE and SW.
	Ascend.
80.00	Set a volcanic stone 20x10x3 ins.,15 ins.in the ground, for cor.of secs.5,6,7 and 8,marked with 5 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.
	Corner about 75 ft.above ravine.
	Land mountainous.
	Soil,gravelly.and stony;2nd.and 3rd.rate.
	Timber,scattering pine.
	Undergrowth,oak,sage and serviceberry brush.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth
	80.00 chs.
	September 7,1909:At this cor.the sky is overcast at the noon hour and solar observations are impossible.

Subdivision of T.34 S.,R.7 W.

Chains.	
	S.89°55' E.on a random line bet.secs.5 and 8.
40.00	Set temp.1/4 sec.cor.
80.30	Intersect N.and S.line,at 35 lks.S.of the cor.of secs. 4,5,8 and 9,heretofore described.
	Thence I run
	S.89°50' W.on a true line bet.secs.5 and 8.
	Along S.slope of low ridge;through scattering cedar, pine and mahogany timber and dense sage and oak undergrowth.
	Ascend.
10.50	Top of spur on S.slope of ridge,100 ft.above sec.cor., bears N.and S.
	Descend.
21.85	Descend over perpendicular ledge 20 ft.high,bears N.and S.
	Leave scattering timber bears N.and S.
29.15	Little Creek at foot of ridge,150 ft.below top of spur,6 lks. wide ,6 ins.deep,clear fresh water,course N.55° W.
	Ascend.
31.25	Road bears S.55°.E.and N.55° W.
34.55	Road bears N.10°W.and S.10° E.
35.50	Top of spur 30 ft.above creek,bears N.10° W.and S.10° E.
	Descend.
38.95	Creek 1 link wide 1 inch deep,course N.
40.15	Set a volcanic stone 14x12x6 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 impracticable.
41.25	Wash 15 lks.wide,8 ft.deep,in hollow,25 ft.below top of spur,course N. Stream of water 1 lk.wide 1 inch deep in bottom of wash.
	Ascend gradually.

Subdivision of T.34 S.,R.7 W.

Chains.	
41.50	Old road bears N.and S.
52.25	Begin more rapid ascent along E.slope of ridge,bears N. and S.
	Enter dense oak and continue in dense sage brush undergrowth,bears N.and S.
53.00	Top of spur 25 ft.high bears N.and S.
	Descend.
54.85	Bottom of swale about 25 ft.below top of spur and Wash 15 lks.wide and 6 ft.deep,course N.
	Ascend.
57.40	Top of spur 100 ft.above swale,bears N.150 E.and S.150W.
	Descend.
70.75	Wash in bottom of ravine 75 ft.below top of spur,10 lks. wide and 4 ft.deep,course NE.
	Ascend.
80.30	The cor.of secs.5,6,7 and 8,125 ft.above wash.
	Land mountainous and rolling.
	Soil,loam and gravelly;1st.and 2nd.rate.
	Timber,scattering cedar ,pine and mahogany with cottonwood along the creek.
	Undergrowth,sage brush,oak,and willows and birch along Little Creek.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth 80.30 chs.
	September 7,1909.

September 8,1909:I set off 37°53' N.on the lat,arc;50° 47' N.on the decl.arc;and at 8h58m a.m.,l.m.t.,determine

Subdivision of T.34 S.,R.7 W.

Chains.	
	a meridian with the solar at the cor.of secs.5,6,7 and 8,heretofore described.
	Thence I run
	West on a true line bet.secs.6 and 7.
	Over mountainous land;through dense oak and sage brush undergrowth.
	Ascend.
1.95	Top of spur 25 ft.above sec.cor.bears NE and SW.
	Descend.
5.45	Bottom of ravine 60 ft.deep,course N.10° W.
	Ascend.
12.20	Top of spur 100 ft.above bottom of ravine,bears N.30° W. and S.30° E.
	Descend.
18.50	Wash in bottom of ravine 75 ft.below top of spur,7 lks. wide,3 ft.deep,course N.
	Ascend.
30.70	Top of ridge 150 ft.above ravine,bears S.20° E.and N.20° W.
	Enter scattering mahogany,pine and cedar timber bears S.20° E.and N.20° W.
	Descend over steep W.slope of ridge.
40.00	Set a granite stone 18x10x6 ins.,12 ins.in the ground, for 1/4 sec.cor.,marked 1/4 on N.face;from which
	A pinion pine 10 ins.dia.bears N.39 1/2° E. 25 lks. dist.,marked 1/4 S 6 B T.
	A pinion pine 8 ins.dia.bears S.2 1/2° W.20 lks.dist., marked 1/4 S 7 B T.
45.50	Road at foot of ridge 250 ft.below top of ridge,bears N.40° W.and S.40° E.
	Descend more gradually.
49.20	Bottom of hollow ,30 ft.below foot of ridge,and wash 10 lks.wide and 3 ft.deep,course N.30° W.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Ascend.
52.95	Top of spur 25 ft.high,bears N.and S.
	Descend.
72.70	Wash in bottom of canon 100 ft.below top of spur,20 lks.wide,and 6 ft.deep,course S.60° W.
	Ascend.
76.05	Road bears N.60° E.and S.60° W.
81.75	Enter heavy pine and cedar timber bears NE and SW.
89.55	Top of spur 100 ft.above bottom of canon,bears S.10°W. and N.10° E.
	Descend.
96.70	Bottom of ravine 100 ft.deep,course S.
	Ascend.
107.20	Top of spur 100 ft.high,bears N.and S.
	Descend.
111.50	Bottom of ravine 100 ft.deep,course S.20° W.
	Ascend.
114.00	Top of spur 75 ft.high,bears S.10° W.and N. 10° E.
	Descend.
120.00	Leave heavy and enter scattering pine timber bears NW and SE.
126.90	Enter Red Creek Canon at foot of ridge,bears S.40° E. and N.40° W.
	Road bears S.40° E.and N.40° W.
	Enter scattering yellow pine and heavy mahogany timber bears NW and SE.
	Descend more gradually.
127.60	Red Creek,in bottom of canon 150 ft.below top of spur, 8 lks.wide,6 ins.deep,rapid current,clear fresh water, course N.35° W.
	Ascend.
130.00	Leave creek bottom and begin ascent of ridge,bears NW and SE.

Subdivision of T.34 S.,R.7 W.

Chains.	
137.25	Enter small grove of heavy quakingasp timber bears NW and SE.
	Leave scattering yellow pine and heavy mahogany timber bears NW and SE.
137.75	Leave heavy quakingasp timber and enter scattering pine and mahogany timber bears NW and SE.
142.00	Top of spur 150 ft. above creek, bears N.40°E. and S.40°W. Descend.
146.20	Intersect W.bdy.of Tp.,at N.1°20' E.7.28 chs.dist.,from the re-established 1/4 sec.cor.,on E.bdy.of sec.1,heretofore described.
	Set a granite stone 20x10x8 ins.,15 ins.in the ground, for closing cor.of secs.6 and 7,marked with 5 grooves on S.and 1 groove on N.faces,with C C on E.face;from which
	A pinion pine 10 ins.dia.bears N.83 1/4° E.78 lks. dist.,marked T 34 S R 7 W S 6 B T.
	A pinion pine 8 ins.dia.bears S.76 1/2° E.58 lks. dist.,marked T 34 S R 7 W S 7 B T.
	Land mountainous and sloping creek bottom.
	Soil,gravelly and stony;2nd.and 3rd.rate.
	Timber,pinion pine,cedar,quakingasp and mahogany,with a few trees of yellow pine saw timber.
	Undergrowth,sage brush,oak,serviceberry and chokecherry brush,with birch and willows along creek.
	Good grass for grazing.
	Mountainous or heavily timbered land or land covered with dense undergrowth 146.20 chs.
	September 8,1909:At this closing cor.the sky is overcast at the noon hour and solar observations are impossible.

Subdivision of T.34 S.,R.7 W.

Chains.	
	Note:-For reasons already explained,I run N.00 03' W.on a true line bet.Secs.5 and 6. Over mountainous land;through dense oak,sage brush, serviceberry and chokecherry brush.
	Ascend.
3.00	Top of ridge 30 ft.above the sec.cor.,bears N.75°E. and SW.
	Descend.
18.00	Bottom of ravine 200.ft.below top of ridge,course N. 75° E.
	Ascend.
19.00	Enter heavy nut pine and cedar timber bears E.and W.
24.00	Enter heavy mahogany timber and continue in cedar and nut pine timber bears E.and W.
24.75	Top of ridge 126 ft.above bottom of ravine,bears E.and W.
	Descend.
27.80	Intersect N.bdy.of Tp.,at N.89°52' E.,7.05 chs.dist., from the old 1/4 sec.cor.on S.bdy.of sec.32,heretofore described.
	Set a porphyry stone 16x8x4 ins.,11 ins.in the ground, for closing cor.of secs.5 and 6,marked with 5 grooves on E.and 1 groove on W.faces,with C C on S.face;from which
	A mahogany 4 ins.dia.bears S.16° E.,18 lks.dist., marked T 34 S R 7 W S 5 B T.
	A pinion pine 8 ins.dia.bears S.79° W.,55 lks.dist., marked T 34 S R 7 W S 6 B T.
	Corner about 75 ft.below top of ridge.
	Land mountainous.
	Soil,gravelly;2nd.rate.
	Timber,nut pine cedar and mahogany.
	Undergrowth,oak,sage brush,serviceberry and chokecherry brush.

Chains. Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth 27.80 chs.

September 8,1909.

September 9,1909: I return to the meridian established August 2,1909,at the cor.of Tps.34 and 35 S.,Rs.6 and 7 W.,as described in the notes of the retracement of the S.bdy.of this Tp.;and at 7^h57^m a.m.,l.m.t.,I set off $37^o49'$ N.on the lat.arc;$5^o26'$ N.on the decl.arc;and determine a meridian with the solar,which falls 0.30 ins. E.of the Polaris Meridian;therefore I conclude the adjustments of the instrument are satisfactory.

September 9,1909.

GENERAL DESCRIPTION:

This township is mostly mountainous in character with one high range or divide extending from Little Creek Peak near the North boundary of Section two,Southwesterly to the Southwest corner of the township.

The drainage from the Northerly slope of this range tends toward the Parowan Valley,and from the Southerly slope tends to the Sevier Valley or Sevier River.

The soil is generally rich clay loam intermixed with gravel with small stretches of stony or rocky ground.

In the higher elevations and slopes there is an abundance of quakingasp,pine and balsam timbers with scattering yellow pine saw timber of which considerable has already been felled and sawed or cut into lumber and shingles. On the lower slopes on the Northwest and East there is a good supply of nut pine,cedar and mahogany timber,and on the Northeasterly part of the township there are a number of trees of yellow pine saw timber.

The land throughout the township is generally covered with a variety of undergrowth and shrubbery and nutritious native grasses.

No indications of coal or of minerals of any kind were found within the township;and the land is agricultural in character and most suitable for pasturage and grazing purposes. There is some land in secs.33 and 34,and in secs.27 and 34 adjoining the claim of William Tebbs suitable for farming purposes;and there is also a small tract in sec.4 which might be farmed.

The township is well watered with Red Creek and its tributaries or branches on the northwest;with Little Creek and its branches on the N.and N.Central parts;with Dodd's Creek and its branches on the S.,and with several smaller creeks that empty into the Sevier River on the east and northeast,and with a number of small streams,springs, and ponds distributed throughout the township.

The township is subject to heavy rain fall during the months of July,August and September and the snow fall is very deep during the winter season.

The Red Creek Reservoir in secs.7 and 18,is in a natural swale or hollow extending Northwesterly and southeasterly with a dam about 50 ft.wide and 20 ft.high at the northwesterly end. This reservoir is about 42.00 chs. long with an average width of about 10.00 chs. and an

Subdivision of T.34 S.,R.7 W.

average depth of probably 5 feet. By raising this dam from 15 to 20 ft.higher the water in the reservoir will be backed to about 65.00 chs.from the dam.

This site was formerly claimed and occupied by Richard Benson and his sons of Parowan as a pasture and meadow and for shingle mill site,but it was purchased by the inhabitants of Paragoonah for reservoir purposes,who have since incorporated as the Red Creek Reservoir and Irrigation Company.

There are two permanent settlers within the township:

WILLIAM WILLIAMSON has a cabin,dairy house,corral and stable in SE 1/4 sec.19,with small pasture in SE 1/4 sec.19,NW 1/4 sec.29 and NE 1/4 sec.30,of the total value of about $375.00.

WILLIAM TEBBS has a cabin,dairy house and corral in the SW 1/4 sec.27,with meadow and fenced pasture in SW 1/4 and SE 1/4 sec.27 and in NW 1/4 and NE 1/4 sec.34, of the probable total value of$500.00.

There is an old cabin and corral in NE 1/4 sec.17; claimant unknown.

There are three old cabins in NE 1/4 sec.18,belonging to Red Creek Reservoir and Irrigation Company.

There are three old cabins and a corral in NW 1/4 sec.19,probably formerly used in connection with saw mill and shingle mill near by;claimants unknown.

The township is within the Sevier Forest Reserve,and a Ranger station has been established in the SE 1/4 sec. 33 where a suitable building is to be erected in the near future.

The township is used extensively for grazing purposes under forest reserve regulations.

September 9,1909. Mayhew H. Dalley,
U.S.Deputy Surveyor.

103. Filed March 14,1910.

Corrective Survey of the Subdivision of T.34 S.,R.7 W.

Corrective Survey commenced March 4,1910,and executed with the Instrument used in the original Survey of the Subdivision of this Tp.,and described in the notes thereof .

I know the instrument to be in adjustment from complete test made March 3 and 4,1910,at the cor.of secs. 34 and 35,T.33 S.,R.7 W.,and described in the Notes of Corrective Survey of Fractional North Boundary of T. 34 S.,R.7 W .

For original notes see p. 40 this book.

March 4,1910:I set off 37°54' N. on the lat.arc; 6°30' S.on the decl.arc;and at 2 h12m p.m.,l.m.t., determine a meridian with the solar at the cor.of secs. 2 and 3 on the N.bdy.of this Tp.as described in the notes of the Corrective Survey of the Fractl.N.bdy.of this Tp.

Thence I run

S.0°02' E.on corrective survey line bet.secs.2 and 3.

27.38 Fall 2 lks.W.of the cor.of secs.2,3,10 and 11,as heretofore described in the original notes of this line.

The course of this line is therefore,S.0°2'E .

Note:-There is no change in the topography of this line.

March 4,1910.

Mayhew H. Dalley,

U.S.Deputy Surveyor .

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and ng the lines and corners described in the foregoing field notes of the Corrective survey of the Subdivis- f T. 34 S., R. 7 W., of the Salt Lake Base and Meridian ng the respective capacities in which they acted:

Maeser Dalley, *Chainman.*

Arthur Pratt, *Chainman.*

Maeser Dalley, *Moundman.*

Arthur Pratt, *Moundman.*

Maeser Dalley, *Axman.*

Arthur Pratt, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in Corrective surveying all parts or portions of the Subdivision of T. 34 S., R. 7 W. of the Salt Lake se and meridian, State of Utah, which are represented foregoing field notes as having been surveyed by him and under his direction; and that said survey en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor al for UTAH.

Maeser Dalley, *Chainman.*

Arthur Pratt, *Chainman.*

Maeser Dalley, *Moundman.*

Arthur Pratt, *Moundman.*

Maeser Dalley, *Axman.*

Arthur Pratt, *Axman.*

Corrected, *Flagman.*

cribed and sworn to before me this 10th day of March, 1910.

Senora C. Dalley

Notary Public, Iron County, Utah.

SEAL

My Commission Expires May 16th, A. D. 1911.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyo
solemnly swear that, in pursuance of a contract received from Edward H. Anderson
United States Surveyor General for UTAH, bearing date o
11th. day of April, 1910, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Sur
General for UTAH, the Manual of Surveying Instructions, and the laws o
United States, Corrective surveyed all those parts or portions of the Subdivision of T.34 S.
of R.7 W.

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

Mayhew H. Dalley
United States Deputy Surv

Subscribed by said Mayhew H. Dalley, and sworn to before me
this 10 day of March, 1910

Wm. G. Morris
County Clerk

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

, 1

The foregoing field notes of the survey of

executed by
under his contract No. , dated , 19 , having
critically examined, and the necessary corrections and explanations made, the said field notes, an
surveys they describe, are hereby approved.

United States Surveyor Ge

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

United States Surveyor Ge

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley United States Deputy Surveyor, to assist in running, measuring, and ing the lines and corners described in the foregoing field notes of the survey of the Subdivis- of T.34 S., R.7 W., of the Salt Lake Base and Meridian, ing the respective capacities in which they acted:

Maeser Dalley, *Chainman.*
Edward H. Parry, *Chainman.*
James Tweedie *Moundman.*
Erastus Macfarlane *Moundman.*
James Tweedie *Axman.*
Bert Nelson *Axman.*
Menzies Macfarlane *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley United States Deputy Surveyor, in surveying all parts or portions of the Subdivision of T.34 S., R.7 W., of the Salt Lake and meridian, State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the er monuments established, according to the instructions furnished by the United States Surveyor ral for Utah.

Maeser Dalley *Chainman.*
Edward H. Parry *Chainman.*
James Tweedie *Moundman.*
Erastus Macfarlane *Moundman.*
James Tweedie *Axman.*
Bert Nelson *Axman.*
Menzies Macfarlane *Flagman.*

scribed and sworn to before me this 10th. day of September, 19 00.

Senora B. Dalley
Notary Public.

SEAL

My Commission Expires May 16th, A. D. 1911.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date the 11th day of April, 19 01, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of T. 34 S., R. 7 W., of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me this 30 day of November, 19 09.

Wm. T. Morris
County Clerk, Iron County, Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 25, 1911.

The foregoing field notes of the survey of the subdivisional lines of Township No. 34 South, Range No. 7 West of the Salt Lake Base and Meridian, Ut

executed by Mayhew H. Dalley under his contract No. 341, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor General.

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

United States Surveyor General.

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BOOK A-358

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FILED
APR 8 1909

FIELD NOTES

OF THE SURVEY OF THE

EIGHTH STANDARD PARALLEL SOUTH,

through

Range 8 West.

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14, 1908, *19Q*

Survey commenced July 12, 1908, *19Qx*

Survey completed July 14, 1908, *19Qx*

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BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainmen
Reuben Straten	Chainman
Angus M. Woodbury	Chainman
N. Henry Savage	Chainman
Rass Macfarlane	Moundman
Samuel Brooks	Moundman
Grant Gregerson	Axman
Eldon Snow	Axman
James S. Gregerson	Flagman

BOOK A-358

INDEX DIAGRAM.

Township No.40 South , *Range* No.8 West

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30	29	28	27	26	25
31	32	33	34	35	36
12	10	8	6	4	2

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Menzies Macfarlane, Reuben Stratton, Angus M. Woodbury and N. Henry Savage do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Eighth Standard Parallel South, through Ranges 8, 9, and 10 West, Salt Lake Base and Meridian.

Menzies Macfarlane, Chainman.
Reuben Stratton, Chainman.
Angus M. Woodbury.
N. Henry Savage

Subscribed and sworn to before me this 20th day of June, 1908, 190xx

SEAL

Leo A. Snow
U.S. Deputy Surveyor

WE, Rass Macfarlane and Samuel Brooks do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Eighth Standard Parallel South, through Ranges 8, 9, and 10 West, Salt Lake Base and Meridian.

Rass Macfarlane, Moundman.
..., Moundman.
Samuel Brooks

Subscribed and sworn to before me this 20th day of June 1908, 190x

SEAL

Leo A. Snow
U.S. Deptuy Surveyor

WE, Grant Gregerson and Eldon Snow do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Eighth Standard Parallel South, through Ranges 8, 9, and 10 West, Salt Lake Base and Meridian.

Grant Gregerson, Axman.
Eldon Snow, Axman.

Subscribed and sworn to before me this 20th day of June 1908, 190x

SEAL

Leo A. Snow
U.S. Deputy Surveyor.

I, James S. Gregerson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Eighth Standard Parallel South, through Ranges 8, 9, and 10 West, Salt Lake Base and Meridian.

James S. Gregerson, Flagman.

Subscribed and sworn to before me this 20th day of June 1908, 190xx

SEAL

Leo A. Snow.
U.S. Deptuy Surveyor

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Eighth Standard Parallel South, through Range 8 West.

Survey Commenced July 12,1908, and executed with a Young and Sons light mountain transit No.7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, Utah, found correct, and was approved by the surveyor general for Utah, on June 8,1908.

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 so solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows:

At the Standard Cor. Of Tps. 40 S., Rs. 7 and 8 W, latitude 37° 17' 18" N., longitude 112° 39' 31" W., I set off 37° 17' N., on the lat. arc; 21° 57' N., on the decl. arc; and at 3 h 5 m p.m. l.m.t., determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 12,1908.

July 13,1908: At 0 h 9.6 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug, set in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1° 29' to the west, and mark the meridian thus determined, by cutting a small groove in the stone, already set 5.00

Eighth Standard Parallel South, through Range 8 West-Continued.

Chains

chs.N.of the cor.;on which the meridian falls 0.31 ins. east of the meridian determined with the solar.

At 7 h 5 m a.m.,l.m.t.,I set off 37°17'N.,on the lat. arc;21° 52'N.,on the decl.arc;and determine a meridian with the solar ,and mark a point thereof on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.27 ins.east of the meridian determined by Polaris observation.

The solar apparatus by p.m.and a.m.observations ,defines positions for meridians respectively about 0'16"west and 0'14"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N.15° 50'W.,the angle thus determined gives the mag. decl.15° 50'E.

The Standard cor.of Tps.40 S.,Rs.7 and 8 W.,is a sandstone,6x10x7 ins.,above ground,firmly set,and marked and witnessed as described by the surveyor general; except that the courses and distances to the bearing trees are incorrect; I destroy the marks on the bearing tree south of the line and take new bearings and distances to the other trees as follows:

A cedar,10 ins.dia.,bears N.43° 45'E.,83 lks. dist..mkd.T 40 S.,R.7 W.,S 31 B T.

A pinon pine,14 ins.dia.,bears N.63° 30'W.,29 lks.dist..,mkd.T 40 S R 8 W S 36 B T.

Thence I run

West,on S.bdy.sec.36.

Over mountainous land;through heavy timber;and scattering undergrowth.

Desc.gradually.

Eighth Standard Parallel South, through Range 8 West, Continued.

Chains	
6.00	Begin steep descent, bears N. and S.
11.70	Foot of steep descent, bears N. and S.
	Desc. more gradually.
11.80	Leave timber, and enter dense undergrowth, bears N. and S.
12.90	Road from Orderville to Cedar City, bears N. and S.
17.60	Muddy Creek, 10 lks. wide, 3 ins. deep, in bottom of canon, 350 ft. below sec. cor., course S.
	Asc.
26.50	Begin steep ascent, bears N. and S.
	Enter heavy timber, bears N. and S.
32.50	Top of steep asc. bears N. and S.
	Asc. gradually.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,
	By 1st set, 39.99 chs.
	By 2nd set, 40.01 chs.; the mean of which is
40.00	Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for ¼ sec. cor.., mkd. S. C. ¼ on N. face; from which
	A cedar, 8 ins. dia., bears N. 41° 50' W., 30 lks. dist.. mkd. S C ¼ S 36 B T
	A cedar, 10 ins. dia., bears N. 13° 45' E., 51 lks. dist.., mkd. S C ¼ S 36 B T.
52.00	Top of ridge, 250 ft. above canon, bears N. and S.
	Desc.
54.00	Bottom of hollow, 20 ft. below ridge, course S.
	Asc.
58.00	Top of spur, 20 ft. above hollow, bears N. and S.
	Desc.
61.60	Bottom of hollow, 60 ft. below spur, course S.
	Asc.
68.00	Top of ridge, 50 ft. above hollow, bears N. and S.
	Desc.
69.50	Bottom of hollow, 30 ft. below ridge, course S.

Eighth Standard Parallel South, through Range 8 West,-continued.

Chains	
	Asc.
70.80	Top of ridge, 30 ft. above hollow, bears N. and S.
	Desc.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 6 lks.; position of middle point,
	By 1st set 79.97 chs.
	By 2nd set, 80.03 chs.; the mean of which is
80.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. S C on N., with 1 groove on E. and 5 grooves on W. faces; from which
	A cedar, 14 ins. dia., bears N. 88° 30' E., 66 lks. dist.. mkd. T. 40 S. R. 8 W S 36 B T.
	A cedar, 14 ins. dia., bears N. 44° W., 55 lks. dist.. mkd. T 40 S R 8 W S 35 B T.
	Land, mountainous.
	Soil, clay; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth; sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.

West, on S. bdy. sec. 35.

Over mountainous land; through heavy timber and scattering undergrowth.

	Desc.
3.90	Bottom of hollow, 90 ft. below sec. cor., course S. 60° E.
	Asc.
9.00	Top of spur, 100 ft. above hollow, bears NW and SE.
	Desc.

Eighth Standard Parallel South through Range 8 W.-Continued.

Chains	
10.35	Head of draw, 10 ft.below spur,course SE.
	Asc.
19.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
20.75	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
25.60	Top of ridge,100 ft.above hollow,bears NE and SW.
	Desc.
29.00	Bottom of hollow,60 ft.below ridge,course N.
	Asc.
35.00	Top of ridge,80 ft.above hollow,bears NE and SW.
	Desc.
39.85	Head of draw,20 ft.below ridge,course NE.
	Asc.
	Difference between measurements of two sets of chainmen, is 4 lks.;position of middle point,
	By 1st set ,39.98 chs.
	By 2nd set, 40.02 chs.,the mean of which is
40.00	Set a sandstone,16x8x4 ins.,11 ins.in the ground,for Standard ¼ sec.cor..mkd. S C ¼ on N.face;from which
	A cedar,6 ins.dia.,bears N.40° 30'E.,59 lks. dist..mkd. S C ¼ S 35 B T.
	A pinon pine,12 ins.dia.,bears N.33°W.,96 lks. dist..mkd. S C ¼ S 35 B T.
42.00	Top of ridge,70 ft.above hollow,bears N.and S.
	Desc.
49.30	Bottom of hollow,200 ft.below cor.,course NE
	Asc.
78.00	Top of ridge,250 ft.above hollow,bears N.70°W.and S.70°E.
	Desc.
	Difference between measurements of 80.00 chs.,by two sets of chainmen is 8 lks.;position of middle point,

Eighth Standard Parallel South, through Range 5 W.-Continued.

Chains

By 1st set, 70.00 chs.

By 2nd set, 80.04 chs.; the mean of which is

80.00 Set a sandstone, 18x7x6 ins., 12 ins. in the ground, for Standard cor. of secs. 34 and 35, mkd. S 5 on N., with 2 grooves on E. and 4 grooves on W. faces; from which

A pinon pine, 14 ins. dia., bears N. 79° 30' E., 12 lks. dist., mkd. T. 40 S R 4 W S 35 S W.

A cedar, 8 ins. dia., bears N. 64° 30' W., 8 lks. dist., mkd. T 40 S R 4 W S 34 S W.

Land, mountainous.

Soil, clay and gravel; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

Exceptionally difficult to survey, 80.00 chs.

July 13, 1908: At this cor. I set of 21° 40' W., on the decl. arc; and at 0 h 5 m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 37° 17' N., which is the proper lat. nearly.

West, on E. bdy. sec. 34.

Over mountainous land; through heavy timber and dense undergrowth.

Desc.

7.00 Bottom of hollow, 30 ft. below cor., course E.

Asc.

10.30 Top of ridge, 50 ft. above hollow, bears NW and SE.

Desc.

23.00 Hollow, 50 ft. below ridge, course SE.

Eighth Standard Parallel South, through Range 8 West,--Continued.

Chains	
	Asc.
38.50	Top of ridge, 250 ft. above hollow, bears NW and SE.
	Desc.
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 6 lks.; position of middle point,
	By 1st set, 39.97 chs.
	By 2nd set, 40.03 chs.; the mean of which is
40.00	Set a sandstone, 20x12x5 ins., 15 ins. in the ground, for standard ¼ sec.cor. , mkd. S C ¼ on N. face; from which
	A pinon pine, 14 ins. dia., bears N. 50° 55' E., 55 lks. dist.. mkd. S C ¼ S 34 B T.
	A pinon pine, 16 ins. dia., bears N. 19° 40' W., 94 lks. dist.., mkd. S C ¼ S 34 B T.
57.10	Bottom of hollow, 100 ft. below ridge, course S.
	Asc.
61.50	Top of ridge, 50 ft. above hollow, bears N. and S.
	Desc.
68.50	Bottom of hollow, 40 ft. below ridge, course S.
	Asc.
70.50	Top of ridge, 20 ft. above hollow, bears N. and S.
	Desc.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 10 lks.; position of middle point,
	By 1st set, 79.95 chs.
	By 2nd set, 80.05 chs.; the mean of which is
80.00	Set a sandstone, 22x8x6 ins., 16 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. S C on N., with 3 grooves on E. and 3 grooves on W. faces; from which
	A pinion pine, 14 ins. dia., bears N. 30° 35' E., 76 lks. dist.. mkd. T 40 S R 8 W. S 34 B. T.
	A pinon pine, 5 ins. dia., bears N. 39° 30' W., 41 lks. dist.. mkd. T 40 S R 8 W S 33 B T.
	Land, mountainous .
	Soil, clay and gravelly ; 3rd rate.

Eighth Standard Parallel South, through Range 8 West-Continued.

Chains	
	Undergrowth, sage, oak, and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	July 13, 1908.
	July 14, 1908: At 7 h 6 m. a.m., l.m.t., I set off 37° 17' N. on the lat. arc; 21° 43' N., on the decl. arc; and determine a meridian with the solar at the Standard Corner of secs. 33 and 34.
	Thence I run
	West, on S. bdy. sec. 33.
	Over mountainous land; through heavy timber and dense undergrowth.
	Desc.
3.00	Bottom of hollow, 40 ft. below cor., course S.
	Asc.
5.00	Top of ridge, 30 ft. above hollow, bears N. and S.
	Desc.
12.00	Bottom of hollow, 30 ft. below ridge, course S.
	Asc.
20.00	Leave timber, bears N. and S.
20.80	Road to Orderville, bears N. 20° W. and S. 20° E.
22.00	Wash, 40 lks. wide, 25 ft. deep, in bottom of hollow, 100 ft. below road, course S. 60° E.
	Asc.
39.00	Enter heavy timber, bears NE and SE.
	Difference between measurements of 40.00 chs. by two

Eighth Standard Parallel South, through Range 8 West,-Continued.

Chains	
	sets of chainmen, is 4 lks.; position of middle point,
	By 1st set, 39.98 chs.
	By 2nd set, 40.02 chs.; the mean of which is
40.00	Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for Standard ¼ sec.cor., mkd. S C ¼ on N.face; from which
	A pinon pine, 7 ins.dia., bears N.28° E., 28 lks. dist., mkd. S C ¼ S 33 B T.
	A cedar, 14 ins.dia., bears N.40° 10' W., 22 lks. dist., mkd. S C ¼ S 33 B T.
51.80	Top of spur, 300 ft. above hollow, bears NW and SE.
	Desc.
52.40	Head of hollow, 20 ft. below spur, course SE.
	Asc.
63.20	Top of spur, 200 ft. above hollow, bears N.20° W. and S.20° E.
	Desc.
65.70	Head of hollow, 50 ft. below spur, course S.20° E.
	Asc.
70.00	Top of sharp ridge, 100 ft. above hollow, bears N. and S. At this point I erect a signal for a test sight from some point to the west.
	Desc. abruptly.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 12 lks.; position of middle point,
	By 1st set, 79.94 chs.
	By 2nd set, 80.06 chs.; the mean of which is
80.00	Point 300 ft. below ridge.
	Set a sandstone, 14x12x5 ins., 9 ins. in the ground, for standard cor. of secs. 32 and 33, mkd. S C on N., with 4 grooves on E. and 2 grooves on W. faces; from which
	A cedar, 10 ins.dia., bears N.40° E., 57 lks. dist., mkd. T 40 S R 8 W S 33 B T.
	A pinon pine, 12 ins.dia., bears N.15° 28' W., 152 lks. dist., mkd. T 40 S R 8 W S 32 B T.

Eighth Standard Parallel South, through Range 8 West-Continued.

Chains	
	Land, mountainous .
	Soil, clay and gravel; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	West, on S.bdy.sec.32.
	Over mountainous land; through heavy timber and dense undergrowth.
	Desc.
2.50	Leave timber, bears N. and S.
5.20	Leave undergrowth, bears N. and S.
	Enter cultivated field claimed by Hans Sorensen, bears N. and S.
9.35	Creek, 3 lks. wide, 2 ins. deep, in hollow, 300 ft. below sec. cor., course S.
	Asc. gradually.
11.00	Leave cultivated land, bears N.10°W. and S.25°W..
	From this point the rock chimney on Hans Sorensen's cabin bears N.30°W., 65 lks. dist.
	A spring of good water bears N.37°15'E., about 10.00 chs. dist.
	There is about 20.00 acres of land in the field above mentioned which is now producing a good crop of grain.
	Enter dense sage and oak bruah, bears N.10°W. and S.25°W.
	11.05

Eighth Standard Parallel South, through Range 8 West-Continued.

Chains	
11.65	Fence ,bears NW and SE.
12.40	The SE corner of Hans Sorensen's Corral bears N.about 80 lks.dist.
14.00	Enter heavy timber,bears N.and S.
35.50	Top of ridge,500 ft.above creek,bears NW and SE, Desc.
39.90	Head of hollow,30 ft.below ridge,course SE. Difference between measurements of 40.00 chs.by two sets of chainmen is 2 lks.;position of middle point; By 1st set,39.99 chs. By 2nd set,40.01 chs.;the mean of which is
40.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for standard ¼ sec.cor.1mkd. S C ¼ on N.face;from which A cedar,12 ins.dia.,bears N.55° E.,3 lks.dist. mkd. S C ¼ S 32 B T, A cedar,12 ins.dia.,bears N.12° 30'W.,116 lks. dist.. mkd. S C ¼ S 32 B T.
56.50	Top of ridge,60 ft.above hollow,bears NW and SE. Desc.
58.30	Bottom of draw,30 ft.below ridge,course SE.
60.00	Top of ridge,30 ft.above hollow,bears NW and SE. Desc.
64.60	Bottom of hollow,80 ft.below ridge,course SE. Asc.
70.50	Top of ridge,80 ft.above hollow,bears NW and SE. Desc.
72.50	Head of hollow,50 ft.below ridge,course SE. Asc.
76.00	Leave timber,bears NW and SE. Difference between measurements of 80.00 chs.by two sets of chainmen,is 14 lks.;position of middle point, By 1st set,79.93 chs. By 2nd set,80.07 chs.;the mean of which is

Eighth Standard Parallel South, through Range 8 West-Continued.

Chains

80.00 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for standard cor. of secs. 31 and 32, mkd. with S. C. on N., with 5 grooves on E. and 1 groove on W. faces; from which

A cedar, 14 ins. dia., bears N. 82° 35' E., 350 lks. dist.. mkd. T 40 S R 8 W S 32 B T.

No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Land, mountainous .

Soil, clay and gravelly; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage and oak brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Exceptionally difficult to survey, 80.00 chs.

July 14, 1908: At this cor. I set off 21° 40' N., on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37° 17' N., which is the proper lat. nearly.

West, on S. bdy. sec. 31.

Over mountainous land; through dense oak and sage brush.

Asc.

8.40 Top of spur, 50 ft. above cor. bears NW and SE.

Desc.

19.40 Bottom of draw, 20 ft. below spur, course SE.

Asc.

29.50 Top of spur, 80 ft. above draw, bears NW and SE.

Desc.

31.00 Head of hollow, 15 ft. below spur, course SE.

Eighth Standard Parallel South, through Range 8 West, -Continued

Chains	
	Asc.
34.00	Enter heavy pinon pine and cedar timber, bears N. and S.
34.50	Top of divide ridge, 30 ft. above hollow, bears N. and S.
	Desc.
37.00	Head of hollow, 50 ft. below ridge, course SW.
	Asc.
	Difference between measurements of 40.00 chs., by two sets of chainmen, is 8 lks.; position of middle point,
	By 1st set 39.96 chs.
	By 2nd set 40.04 chs.; the mean of which is
40.00	Top of spur, 40 ft. above hollow, bears N. and S.
	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for standard ¼ sec. cor., mkd. S C ¼ on N. face; from which
	A cedar, 16 ins. dia., bears N. 58° 45' E., 94 lks. dist., mkd. S C ¼ S 31 B T.
	A cedar, 6 ins. dia., bears N. 9° 30' W., 27 lks. dist., mkd. S C ¼ S 31 B T.
	Desc.
54.00	Leave timber, bears N. and S.
	Difference between measurements of 72.64 chs., by two sets of chainmen, is 10 lks.; position of middle point,
	By 1st set, 72.59 chs.
	By 2nd set, 72.69 chs.; the mean of which is
72.64	Set temp. standard cor. of Tps. 40 S., Rs. 8 and 9 W.
	Note: The permanent cor. was later set at 62.00 chs.
	Land, mountainous .
	Soil, clay and gravel; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 62.00 chs.
	Exceptionally difficult to survey, 62.00 chs.
	Note: I am unable to see the signal erected on S. bdy.

Eighth Standard Parallel South, through Range 8 W.-Continued.

Chains	
	sec.33.

July 14,1908.

General Description.

Through range 8 W., this line runs across a series of low ridges and hollows covered with cedar and pinon pine timber and having a northerly and southerly trend. It is well watered and well adapted for grazing purposes. The township north is described in the General Description of the Subdivision T.40S.,R.8 W. The township lying south of this line is rolling and nearly level land gently sloping southward to the edge of Virgin River canon, where it breaks off abruptly.

Leo A. Snow.

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book ....., *Chainman.*

"R" Tp.40 S., R.10 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-358

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final oath of deputy see book "R", Tp. 40 S., R.10 W.

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190 9

The foregoing field notes of the survey of the Eighth Standard Parallel South through Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 190 8, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

United States Surveyor General.

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

.....

United States Surveyor General.

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M.S.B. N.F.B. 34

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BOOK A-358
I.

FILED
APR 8 1909

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARY

of

Township No.4C South, Range No.8 West.

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14,1908. 120

Survey commenced July 14,1908. 190

Survey completed July 17,1908. x190

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NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlanes	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

BOOK A-358

INDEX DIAGRAM.

Township 40 South, *Range* 8 West

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Meanders Page _____

BOOK A-358

PRELIMINARY OATHS OF ASSISTANTS.

We, Menzies Macfarlane and Reuben Stratton do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W.; ,W.,and N.bdys.T.39 S., W.,of the Salt Lake Base and Meridian.

Menzies Macfarlane, Chainman.
Reuben Stratton, Chainman.

Subscribed and sworn to before me this 20th day of June 1908, 190X

Leo A. Snow
U.S.Deputy Surveyor

SEAL

We, Angus M.Woodbury and N.Henry Savage do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W., ,W.,and N.bdys. T.39 S.,R.4 W.,Salt Lake Base and Meridian.

Angus M. Woodbury, Moundman.
N. Henry Savage, Moundman.

Subscribed and sworn to before me this 20th day of June 1908, 190xx

Leo A. Snow
U.S.Deputy Surveyor

SEAL

We, Rass Macfarlane and Samuel Brooks do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W., ,W.,and N. bdys. T.39 S.,R.4 W.,Salt Lake Base and Meridian.

Rass Macfarlane, Axman.
Samuel Brooks, Axman.

Subscribed and sworn to before me this 20th day of June 1908, 190X

Leo A. Snow
U.S.Deputy Surveyor

SEAL

I, Grant Gregerson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of W.bdy.T.40 S.,R.8 W.;E.and W.bdys.T.40 S.,R.10 W.; ,W.,and N., bdys.T.39 S.,R.4 W.;Salt Lake Base and Meridian.

Grant Gregerson, Flagman.

Subscribed and sworn to before me this 20th day of June 1908, 190X

Leo A. Snow
U.S.Deputy Surveyor.

SEAL

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West Boundary of T.40 S.,R.8 W.

Survey commenced July 14,1908,and executed with a Young and Sons light Mountain transit No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct and was approved by the Surveyor General for Utah, June 8,1908.

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

At the temp.Standard cor.of Tps.40 S.,Rs.8 and 9 W., latitude 37° 17'18"N.,longitude 112° 46'04"W.,I set off 37° 17'N.,on the lat.arc;21° 39'N.,on the decl.arc;and at 5 h 6 m p.m.,l.m.t.,determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

July 14,1908.

July 15,1908:At 0 h 17.5 m a.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground,5.00 chs.N.of the cor.

At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 29' to the west,and mark the meridian thus determined by cutting a small groove in the stone already set 5.00

West Boundary of T.40 S.,R.8 W.-Continued.

Chains

chs.North of the cor.;this mark falls 0.32 ins.east of the mark determined with the solar.

At 7 h 6 m a.m.,l.m.t.,I set off 37 °17'N.,on the lat. arc;21° 34'N.,on the decl.arc;and mark the meridian determined with the solar by a cross on the stone already set 5.00 chs.N.of the cor.;on which the meridian falls 0.36 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m.and a.m. observations defines positions for meridians respectively about 0'17" west and 0'19"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is 16° 15'W.,the angle thus determined gives the mag. decl.16° 15'E.

From the above described cor.

I run

North on a random line along west bdy.of Tp.,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs.,and at 488.00 chs.Intersect North bdy.of Tp.,10.64 chs. West of the cor.of Tps.39 and 40 S.,Rs.8 and 9 W.,which is a sandstone,9x6x6 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general. The falling is out of limits,therefore I begin at the cor.of Tps.39 and 40 S.,Rs.8 and 9 W., and run as follows;

July 15,1908.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	July 16,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 23'N., on the lat.arc;21° 24'N.,on the decl.arc;and determine a meridian with the solar at the cor.of Tps.39 and 40 S.,Rs.8 and 9 W.
	Thence I run
	South,on a true line bet.secs.6 and 1.
	Over mountainous land;through dense oak and service berry brush.
	Asc.
4.50	Top of ridge,30 ft.above sec.cor.,bears E.and W.
	Desc.
6.90	Head of hollow,30 ft.below ridge,course E.
	Asc.
15.00	Top of mountain,60 ft.above hollow,bears E.and W.
	Desc.
20.00	Begin abrupt descent over ledges and boulders,bears E. and W.
	Enter heavy timber,bears E.and W.
33.00	Foot of steep descent,bears E.and W.
	Leave timber,bears E.and W.
	Desc.gradually.
42.00	Creek,3 lks.wide,3 ins.deep,in bottom of Orderville Gulch,800 ft.below ridge,course S.80°W.
	Asc.
46.00	Top of ridge,50 ft.above Gulch,bears E.and W.
	Desc.
48.00	Set a sandstone,20x14x3 ins.,15 ins.in the ground,for ¼ sec.cor..,mkd. ¼ on W.face;from which
	A yellow pine,14 ins.dia.,bears N.38° 20'E.,215 lks.dist..mkd.T 40 S R 8 W S 6 B T.
	No other trees within limits;raise a mound of stone,2 ft.,base,1½ ft.high,W.of cor.
60.00	Head of hollow,20 ft.below ridge,course N.30° E.

West Boundary of T. 40 S., R. 8 W.-Continued.

Chains	
	Asc.
87.00	Top of ridge, 500 ft. above hollow, bears E. and W.
	Desc.
88.00	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. with 1 notch on N. and 5 notches on S. edges; from which
	A cedar, 10 ins. dia., bears N. 60° 45' E., 62 lks. dsit. mkd. T 40 S R 8 W S 6 B.T.
	A pinon pine, 20 ins. dia., bears S. 19° 50' E., 85 lks. dist., mkd. T 40 S R 8 W S 7 B T.
	A cedar, 20 ins. dia., bears S. 73° 30' W., 31 lks. dist., mkd. T 40 S R 9 W S 12 B T.
	A pinon pine, 4 ins. dia., bears N. 27° W., 10 lks. dsit., mkd. T 40 S R 9 W S 1 B T.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar and pinon pine and scattering yellow pine.
	Undergrowth, oak and service berry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 88.00 chs.
	Exceptionally difficult to survey, 88.00 chs.

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

Over mountainous land; through heavy timber and dense undergrowth.

	Desc.
7.50	Leave timber, bears E and W.
11.00	Creek, 1 lk. wide, 1 in. deep, in bottom of canon, 300 ft. below sec. cor., course W.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	From this point the east side of John Lemon's corral bears West about 2.50 chs.dist. The east edge of fence enclosing his land bears West about 5.50 chs.dist.
	Asc.
33.50	Foot of perpendicular sandstone ledge,400 ft.high, bears N.70° E.and S.70° W.
34.00	Top of ridge,600 ft.above hollow,bears E.and W.
	Desc.
35.35	Top of perpendicular sandstone ledge,400 ft. high,bears N.70° W.and S.70° E.
	Enter scattering timber,bears N.70° W.and S.70° E.
40.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,20 ins.dia.,bears S.20° 45'E.,21 lks.dist..mkd.¼ S 7 B T.
	A pinon pine,6 ins.dia.,bears S.75° 51'W.,82 lks.dist..mkd. ¼ S 12 B T.
	Note:During the field examination of this township on Jan.18,1909,this cor.was found out of limits in measurement,the length of the mile being within limits; under the direction of U.S.Transitman Andrew Nelson I moved the cor.27 lks.South,the new description being as given above.
48.00	Bottom of canon,600 ft.below ridge,course N.30° W.
	Asc.
54.00	Top of ridge,200 ft.above canon,bears E.and W.
	Desc. abruptly.
57.00	Bottom of sharp hollow,80 ft.below ridge,course NE.
	Asc.abruptly.
66.00	Top of abrupt ascent,bears E.and W.
	Leave scattering timber,bears E.and W.
	Asc.gradually.
80.00	Set a sandstone,20x12x4 ins.,15 ins.in the ground,for cor.of secs.7,12,13,and 18,mkd.with 2 notches on N.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	and 4 notches on S.edges;from which
	A yellow pine,36 ins.dia.,bears S.35° 40'E.,297 lks.dist.,mkd.T 40 S R 8 W S 18 B T.
	No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Land exceptionally difficult to survey,80.00 chs.
	July 16,1908:At this cor.I set off 21° 22'N.,on the decl. arc;and at 0 h. 6 m p.m.,l.m.t.,observe the sun on the meridian ,the resulting lat.is 37° 21'N.,which is the proper lat.nearly.
	South,on a true line bet.secs. 13 and 18.
	Over mountainous land;through dense oak brush.
	Asc.
12.00	Top of ridge,100 ft.above sec.cor.,bears E.and W.
	Enter scattering yellow pine timber,bears E.and W.
	Desc.
16.00	Head of swale,30 ft.below ridge,course W.
	Asc.
40.00	Set a sandstone,14x10x4 ins.,9 ins.in the ground,for ¼ sec.cor..,mkd.¼ on W.face;from which
	A yellow pine,42 ins.dia.,bears S.67° 15'E.,91 lks.dist.,mkd.¼ S 18 B T.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	A yellow pine,24 ins.dia.,bears N.21° 40'W.,127 lks.dist..mkd.¼ S.13 B T.
47.40	Road on top of divide ridge,100 ft.above hollow,bears N.30° E.and S.30° W.
	Desc.
50.00	Head of swale,40 ft.below ridge,course SW.
	Asc.
57.80	Top of ridge,50 ft.above swale,bears N.70° W.and S.70° E.
	Desc.
58.00	Leave timber,bears E.and W.
61.60	Bottom of hollow,200 ft.below ridge,course S.70° E.
	Asc.
77.50	Top of spur,100 ft.above hollow,bears E.and W.
	Desc.
80.00	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for cor.of secs.13,18,19,and 24,mkd.with 3 notches on N., and 3 notches on S.edges;from which
	A lone yellow pine,32 ins.dia.,bears N.14° 45'W. 525 lks.dist.,mkd.T.40 S.,R 9 W S 13 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,scattering yellow pine.
	Undergrowth,oak.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Land exceptionally difficult to survey ,80.00 chs.

July 16,1908.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	July 17,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 20'N., on the lat.arc;21° 14'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.13,18,19, and 24.
	Thence I run
	South,on a true line bet.secs.19 and 24.
	Over mountainous land;through dense oak and sage brush.
	Desc.
7.60	Bottom of hollow,30 ft.below sec.cor.,course E.
	Asc.
16.75	Top of ridge,70 ft.above hollow,bears N.70° W.and S.70° E.
	Desc.
23.30	Bottom of hollow,50 ft.below ridge,course S.70° E.
	Asc.
25.80	Road from Orderville to Zion Canon,course N 60° W and S 60° E.
40.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
41.70	Top of ridge,350 ft.above hollow,bears N.70° W.and S.70° E.
	Desc.
59.10	Bottom of canon,300 ft.below ridge,course SE.
	Asc.
76.00	Top of rideg,300 ft.above canon,bears E.and W.
	Desc.
78.75	Bottom of swale,20 ft.below ridge,course E.
	Asc.
80.00	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for cor.of secs.19,24,25,and 30,mkd.with 4 notches on N.and 2 notches on S.edges ;and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,mountainous.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	Soil,clay and gravelly loam and rocky;3rd and 4th rate.
	No timber.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Land exceptionally difficult to survey,80.00 chs.
	South,on true line bet.secs.25 and 30.
	Over mountainous land;through dense oak and sage brush; and scattering timber.
	Asc.
4.50	Top of spur,30 ft.above sec.cor.,bears E.and W.
	Desc.
11.00	Bottom of hollow,30 ft.below spur,course E.
	Asc.
26.00	Top of ridge,40 ft.above hollow,bears E.and W.
	Enter scattering yellow pine,bears E.and W.
	Desc.
32.00	Bottom of hollow,250 ft,below ridge,course S.70° E.
	Asc.
37.00	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.
40.00	Set a sandstone,18x8x5 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,16 ins.dia.,bears N.30° 10'E.,65 lks.dist..mkd.¼ S 30 B T.
	A yellow pine,16 ins.dia.,bears S.34° 53'W.,74 lks.dist..mkd.¼ S 25 B T.
44.00	Bottom of hollow,30 ft.below ridge,course E.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
	Asc.
46.00	Top of spur,40 ft.above hollow,bears E.and W.
	Continue along east slope of mountain over boulders and broken ledges.
70.00	Leave ledges and boulders,bear E.and W.
80.00	Set a sandstone,20x8x8 ins.,15 ins.in the ground,for cor.of secs.25,30,31,and 36,mkd.with 5 notches on N. and 1 notch on S.edges;and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay loam and rocky;3rd and 4th rate.
	Timber,yellow pine.
	Undergrowth,sage and oak brush .
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	July 17,1908:At this cor.I set off 21° 12'N.,on the decl. arc;and at OH 6 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37° 18'N.,which is the proper lat.nearly.

	South,on a true line bet.secs.31 and 36.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
5.70	Bottom of draw,30 ft.below sec.cor.,course E.
	Asc.
8.90	Top of spur,50 ft.above draw,bears E.and W.
	Desc.
15.00	Bottom of hollow,60 ft.below spur,course S.10° E.
	Asc.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains	
18.25	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
18.50	Top of perpendicular sandstone ledge,100 ft.high,bears S.65° W.and N.65° E
33.20	Bottom of swale,150 ft.below ridge,course E.
	Asc.
35.80	Top of spur,40 ft.above swale,bears E.and W.
	Desc.
40.00	Set a sandstone,20x10x7 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
46.00	Bottom of hollow,150 ft.below ridge,course S.30° E.
	Continue descent.
50.70	Wash,20 lks.wide,15 ft.deep,course S.15° W. Creek,1 lk. wide,1 in.deep,in bottom.
58.30	Same wash,10 lks.wide,16 ft.deep,course S.15° E.
	Asc.
70.00	Top of spur,50 ft.above wash,bears E.and W.
	Desc.
79.30	Creek,1 lk.wide, 1 in.deep,in wash,12 lks.wide,18 ft. deep,in bottom of hollow,75 ft.below spur,course S.15° W.
	Continue descent.
80.00	Intersect Eighth Standard Parallel South,at 62.00 chs. West of the Standard cor.of secs. 31 and 32.,and 10.64 chs.East of the temp.Standard cor.of Tps.40 S.,Rs.8 and 9 W.
	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for Standard cor.of Tps.40 S.,Rs.8 and 9 W.,mkd.S C 40 S on N.,8 W on E.,and 9 W on W.faces;with 6 grooves on N.,E., and W.faces;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
	Land,mountainous.

West Boundary of T.40 S.,R.8 W.-Continued.

Chains

Soil,clay and gravelly and rocky;3rd and 4th rate.

Timber,cedar and pinon pine.

Undergrowth,sage and oak brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

Exceptionally difficult to survey,80.00 chs.

July 17,1908.

Boundaries of T.40S.,R.8 W.

Latitudes,departures,and closing errors.

Line Designated	Course	Distance	Latitudes		Departures	
		chs.	N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.40S.,R.8 W.	North	488.00	488.00			
N.bdy.T.40 S.R.8 W.	East	74.52			74.52	
N.bdy.T.40 S.R.8 W.	N.89° 37'E.	45.22	.30		45.22	
N.bdy.T.40 S.R.8 W.	S.89° 39'E.	40.00		.24	40.00	
N.bdy.T.40 S.R.8 W.	N.89° 30'E.	42.85	.37		42.85	
N.bdy.T.40 S.R.8 W.	East	38.95			38.95	
N.bdy.T.40 S.R8 W.	N.89° 34'E.	40.05	.30		40.05	
N.bdy.T.40 S.R.8 W.	N.89° 45'E.	40.09	.18		40.09	
N.bdy.T.40 S.R.8 W.	N.89° 35'E.	40.49	.29		40.49	
N.bdy.T.40 S.R.8 W.	S.89° 48'E.	41.04		.14	41.04	
N.bdy.T.40 S.R8 W.	East	60.30			60.30	
E.bdy.T.40 S.R8 W.	S.0° 15'W.	89.08		89.08		.39
E.bdy.T.40 S.R8 W.	S.0° 27'W.	79.94		79.94		.63
E.bdy.T.40 S.R.8 W.	S.0° 26'W.	80.03		80.03		.60
E.bdy.T.40 S.R.8 W.	South	240.00		240.00		
8th St.Par.South, through Range 8 W	West	462.00				462.00
Convergency					.55	
Totals			489.44	489.43	464.06	463.62
Error in lat.			489.43		463.62	
			.01			
Error in Dep.					.44	

Boundaries of T.40 S.,R.8 W.-Concluded.

GENERAL DESCRIPTION.

For general description see notes of subdivision of T.40 S.,R.8 W.

Leo A. Smith
U.S.Deputy Surveyor .

July 17,1908.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "Q"..., *Chainman.*

Tp.40 S., R. 10 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-358

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final oath of deputy see book "Q" Tp. 40 S., R. 10 W.

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

_____

United States Deputy Surveyor.

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

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190 9

The foregoing field notes of the survey of the West Boundary of Township No. 40 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah

executed by Leo A. Snow under his contract No. 304, dated May 14, 190 8, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall

United States Surveyor General.

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

_____

United States Surveyor General.

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4—679.

BOOK A-358

J.

FIELD NOTES

retracement
OF THE ~~SURVEY~~ OF THE

NORTH AND EAST BOUNDARIES

of

Township No. 40 South, Range No. 8 West

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14, 1908, *19*

Survey commenced July 18, 1908, *190*

Survey completed July 20, 1908, *190*

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BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Ross Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "A" Tp. 30 S., R. 11 W.

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BOOK A-358

INDEX DIAGRAM.

Township 40 South, *Range* 8 West

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

.....

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

Retracement of North Bdy.of T.40 S.,R.8 W.

Survey commenced July 8,1908,and executed with a Young and Sons light mountain transit,No.7382,with solar attachment.The horizontal limb is provided with two double verniers placed opposite each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs;.

The instrument was examined tested on the meridian at Salt Lake City,Utah,found correct,and was approved by the Surveyor general for Utah,on June 8, 1908.

Begin at the cor.of Tps.39 and 40 S.,Rs.8 and 9 W., heretofore described,latitude 37° 22'31'N.,longitude 112° 46'4"West,I set off 37° 23'N.,on the lat.arc;21° 02'N.,on the decl.arc;and at 10 h 6 m a.m.,l.m.t.,determine a meridian with the solar.

Note :For complete test of instrument see notes of West bdy.of this Tp.

Note:Before Commencing the subdivision of this Tp., I proceed to retrace the north bdy.and part of the east bdy.as follows:

From the above described cor.I run

East,on a retracement line along south bdy.Sec.31.

35.45 Intersect the witness cor.to ¼ sec.cor.,which is a sandstone,5x8x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

43.50 Intersect the witness cor.to ½ sec.cor.,which is a sandstone,5x8x8 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.

74.52 Intersect the cor.of secs.5,6,31,and 32,which is a sandstone,8x6x6 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.

I destroy all marks on this cor.which pertain to secs. 5 and 6 because there will be closing corners on this bdy. from the south.

The course of this line will be therefore East 74.52 chs.

Retracement of North bdy.T.40 S.,R.8 W.-Continued.

Chains | No change in topography from original notes.

East,on a retracement line along south side sec.32.

45.22 Fall 30 lks.S.of the ¼ sec.cor.on S.side sec.32,which is a sandstone,6x6x6 ins.above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
The course of this line is therefore N.89° 37'E.,45.22 chs.
Begin at the ¼ sec.cor.and continue East.

40.00 Fall 24 lks.N.of the cor.of secs.4,5,32,and 33,which is a sandstone,5x10x8 ins.above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
The course of this line is therefore S.89° 39'E. 40.00 chs.
July 18,1908:At this cor.I set off 21° 01'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 37° 23'N,which is the proper lat.nearly.
I destroy all marks on this cor.which pertain to secs. 4 and 5.
No change in topography from original notes.

East,on a retracement line on South side sec.33.

42.85 Fall 37 lks.South of the ¼ sec.cor.,which is a sandstone, 4x12x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
The course of this line is therefore N.89° 30'E.,42.85 chs.
Begin at the ¼ sec.cor.and continue East,

38.95 Intersect the cor.of secs.3,4,33,and 34,which is a sandstone,6x6x5 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
The course of this line is therefore East 38.95 chs.
Note:I destroy all marks on this cor.which pertain to secs.3 and 4.
Note:No change in topography from original notes.

Retracement of North bdy.of T.40 S.,R.8 W.-Continued.

Chains

July 18,1908 .

July 19,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 23'N., on the lat.arc;20° 53'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.33 and 34.

Thence I run

East,on retracement line along South side sec.34.

40.05 Fall 30 lks.south of the ¼ sec.cor. which is a sandstone,5x8x7 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.

The course of this line is therefore N.89° 34'E.,40.05 chs.

Begin at the ¼ sec.cor.above described and continue East,

40.09 Fall 17 lks.S.of the cor.of secs.2,3,34,and 35,which is a sandstone,5x7x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

The course of this line is therefore N.89° 45'E.,40.09 chs.

Note:No change in topography from original notes .

Note:I destroy all mark on this cor.which pertain to secs.2 and 3.

East,on a retracement line along south side sec.35.

Retracement of North Bdy.T.40 S.,R.8 W.-Continued.

Chains

40.49 Fall 29 lks.S.of the ¼ sec.cor.,on S.side sec.35, which is a sandstone,4x8x4 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

The course of this line is N.89°35'E.40.49 chs.

July 19,1908At this cor.I set off 20°50'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°23'N.,which is the proper lat.nearly.

Begin at the above ¼ sec.cor. and continue my line East,

41.04 Fall 14 lks.N.of the cor.of secs.1,2,35,and 36,which is a sandstone,8x16x8 ins.above ground ,firmly set,and mkd.and witnessed as described by the surveyor general.

The course of this line is therefore S.89°48'E.,41.04 chs.

Note:No change in topography from original notes.

Note:I destroy all marks on this cor.which pertain to secs.1 and 2.

Note:The bearing trees for secs.35 and 36,are poorly mkd.and the trees are decaying therefore I destroy the old trees and mark new ones as follows:

A cedar,10 ins.dia.,bears N.79°10'E.,50 lks. dist..mkd.T 39 S R 8 W S 36 B T.

A cedar,8 ins.dia.,bears N.28°30'W.,90 lks. dist..mkd.T 39 S R 8 W S 35 B T.

East,on retracement line on on S.side sec.36.

[illegible] Intersect the ¼ sec.cor.,on S.side sec.36,which is a

Retracement of North bdy.of T.40 S.,R.8 W.-Continued.

Chains

sandstone,5x8x7 ins.,above ground,firmly set,and mkd and witnessed as described by the surveyor general.

60.30 Intersect the closing cor.of Tps.40 S.,Rs.7 and 8 W., which is a sandstone,6x10x7 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

I mark bearing trees for this cor.as follows:

A cedar,18 ins.dia.,bears S.32° 30'E.,63 lks. dist..mkd.T 40 S R 7 W S 6 B T.

A cedar,24 ins.dia ,bears S.35° 35'W.,137 lks. dist..mkd.T 40 S R 8 W S 1 B T.

The course of this line is therefore East,60.30 chs.

I continue my line east for a distance of 40 chs.,but find no trace of the old cor.of T.40 S.,Rs.7 and 8 W.

July 19,1908.

Retracement East Boundary of T.40 S.,R.8 W.

July 20,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 23'N., on the lat.arc;20° 42'N.,on the decl.arc;and determine a meridian with the solar,at the closing cor.of Tps. 40 S.,Rs.7 and 8 W.

Thence I run

South,on retracement line bet.secs.1 and 6.

48.78 Fall 18 lks. East of the ¼ sec.cor.bet.secs.1 and 6, which is a sandstone,5x8x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

89.08 Fall 34 lks.East of the cor.of secs.1,6,7,and 12,

Retracement East bdy.of T.40 S.,R.8 W.-Continued.

Chains	
	which is a sandstone,8x10x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	I mark bearing trees as follows:
	A pinon pine,10 ins.dia.,bears N.84° E.,82 lks. dist..mkd.T 40 S R 7 W S 6 B T.
	A pinon pine,8 ins.dia.,bears S.71° 20'E.,30 lks.dist..mkd.T 40 S R 7 W S 7 B T.
	A pinon pine,9 ins.dia.,bears S.14° 55'W.,97 lks. dist..mkd.T 40 S R 8 W S 12 B T.
	A pinon pine,7 ins.dia.,bears N.40° 45'W.,62 lks. dist..mkd.T 40 S R 8 W S 1 B T.
	The course of this line is therefore S.0° 15'W.,89.08 chs.
	No change in topography from original notes.
	South,on retracement line bet.secs.7 and 12.
39.59	Fall 31 lks.East of the ¼ sec.cor.bet.secs.7 and 12., which is a sandstone,10x8x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
79.94	Fall 63 lks. East of the cor.of secs.7,12,13,and 18, which is a sandstone,9x12x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	The course of this line is therefore S.0° 27'W.,79.94 chs.
	No change in topography from original notes.

Retracement of East Bdy.of T.40 S.,R.8 W.-Continued

Chains

July 20,1908At this cor.I set off 20°39'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 37°32'N.,which is the proper lat.nearly.

South,on retracement line bet.secs.13 and 18.

39.95 Fall 30 lks.East of the ¼ sec.cor..,bet.secs.13 and 18, which is a sandstone,6x18x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

80.03 Fall 61 lks.East of the cor.of secs.13,18,19,and 24, which is a sandstone,7x12x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general;except that the bearing trees are improperly described,the correct bearing and distances to trees is as follows:

A piñon pine,7 ins.dia.,bears S.24°20'E;,135 lkd.dist..mkd.T 40 S R 7 W S 19 B T.

A pinon pine 24 ins.dia.,bears S.32°45'W.,16 lks.dist..mkd.T 40 S R 8 W S 24 B T.

A cedar,19 ins.dia.,bears N.80°20'W.,20 lks. dist..mkd.T 40 S R 8 W S 13 B T.

The course of this line is therefore S.0°26'W.,80.03 chs.

Note:No change in topography from original notes.

Retracement of East bdy. of T.40 S., R.8 W.-Continued.

Chains

July 20, 1908.

Leo A. Snow.
U.S. Deputy Surveyor.

Volume
#
R0358

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

For list of names and final oaths of assistants see book "T", *Chainman.*

T. 40 S., R. 10 W. ....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final oath see book "T" Tp. 40 S., R. 10 W.

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

.....
United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 190 9

The foregoing field notes of the ~~survey of~~ retracement of the north and east boundaries of Township No.40 South Range No.8 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 190 8, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ retracements they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

.....
United States Surveyor General.

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Page

M.S.B.
K.F.B.

387

C.L.G.

4—679.

BOOK A-358

FILED
APR 8 1909

K.

FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No.40 South, Range No.8 West,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Leo A Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14, 1908. x190

Survey commenced July 21, 1908. x190x

Survey completed August 8, 1908. x190x

6—151

Mad. 55-12-83 ✓
Inter. 4-17-08 ✓
Min. 06-90 ✓
Clos. 1-12-99 ✓

BOOK A-358

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M. Woodbury	Moundman
N. Henry Savage	Moundman
Rass Macfarlane	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "C" Tp. 36 S., R. 11 W.

BOOK A-358

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____, *Chainman.*

_____, *Chainman.*

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

SEAL

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

_____

_____, *Moundman.*

_____, *Moundman.*

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

SEAL

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

_____

_____, *Axman.*

_____, *Axman.*

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

SEAL

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

_____, *Flagman.*

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

SEAL

Subdivision of T.40 S.,R.8 W.

Survey commenced July 21,1908,and executed with a Young and Sons light mountain transit with solar attachment . The horizontal limb is provided with two double verniers placed opposite to each other,reading to single minutes of arc;which is also the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian at Salt Lake City,found correct,and was approved by the surveyor general,for Utah,on June 8,1908.

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

Begin at the Standard cor.of secs.35 and 36,on Eighth Standard Parallel South,latitude 37° 17'18"N., longitude 112° 40'37"W.,I set off 37° 17'N.,on the lat. arc;20° 29'N.,on the decl.arc;and at 4 h 6 m p.m.,l.m.t. I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs. N.of the cor.

At 11 h 38 m p.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point thereof on a wooden plug driven in the ground, 5.oo chs.N.of the cor.

July 21,1908.

July 22,1908:At 6 h 30m a.m.,l.m.t.I lay off the azimuth of Polaris 1° 29'to the west,and mark a point in the meridian thus determined by cutting a small groove in

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	the stone already set 5.00 chs.N.of the cor.;this mark falls 0.39 ins.east of the mark determined with the solar.
	At 7 h 6 m a.m.,l.m.t.,I set off 37° 17'N.,on the lat. arc;20° 19'N.,on the decl.arc;and mark the meridian determined with the solar,by a cross on the stone already set 5.00 chs.N.of the cor.;this mark falls 0.35 ins.east of the meridian established by Polaris observation.
	The solar apparatus by p.m.and a.m.observations ,defines positions for meridians respectively about,0'21"west and 0'18"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 7 h 30 m a.m., is N.16° 15'W.,the angle thus determined gives the mag. decl.16° 15'E.

	From the standard cor.of secs.35 and 36 on S.bdy.of Tp. heretofore described, I run
	N.0° 1'W.,bet.secs.35 and 36.
	Over mountainous land;through scattering cedar and pinon pine timber and dense undergrowth.
	Asc.
8.50	Top of steep ascent,bears E.and W.
	Asc.more gradually.
11.00	Top of spur,200 ft.above cor.bears E.and W.
	Desc.
17.00	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
18.80	Top of ridge,45 ft.above hollow,bears NE and SW.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Desc.
40.00	Set a sandstone,16x10x5 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,7 ins.dia.,bears S.63° 30'E.,167 lks. dist..mkd.¼ S 36 B T.
	A cedar,5 ins.dia.,bears S.79° 40'W.,126 lks. dist..mkd.¼ S 35 B T.
42.00	Bottom of swale,30 ft.below ridge,course E.
	Asc.
62.00	Top of ridge,75 ft.above swale,bears N.10° E.and S.10° W.
	Desc.
79.60	Draw,30 ft.deep,course W.
	Asc.
80.00	Set a sandstone,16x12x5 ins.,11 ins.in the ground,for cor.of secs.25,26,35,and 30,mkd.with 1 notch on S.and 1 notch on E.edges;frommwhich
	A pinon pine,9 ins.dia.,bears N.61° 22'E.,61 lks.dist..mkd.T 40 S R 8 W S 25 B T.
	A cedar,12 ins.dia.,bears S.45° 45'E.,40 lks. dist..mkd.T 40 S R 8 W S 36 B T.
	A pinon pine,10 ins.dia.,bears S.60° 25'E.,39 lks.dist..mkd.T 40 S R 8 W S 35 B T.
	A pinon pine,7 ins.dia.,bears N.61° 15'W.,67 lks.dist..mkd.T 40 S R 8 W S 26 B T.
	Land,mountainous.
	Soil,gravelly and clay ;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush .
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

Subdivision of T.40 S R 8 W.-Continued.

Chains	
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
80.10	Intersect E. bdy. of Tp., 47 lks. S. of the cor. of secs. 25, 30, 31, and 36, which is a sandstone, 5x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	Thence I run
	S. 89° 40' W., on a true line bet. secs. 25 and 36.
	Over mountainous land; through scattering timber and dense undergrowth.
	Desc.
7.50	Leave timber, bears N. and S. Enter Muddy canon, bears N. & S.
15.60	Muddy Creek, 15 lks. wide, 5 ins. deep, in bottom of canon, 200 ft. below sec. cor., course S.
	Asc.
18.10	Road from Orderville to Cedar City, bears N. and S.
18.20	Enter heavy timber, bears N. and S.
	Leave undergrowth, bears N. and S.
27.40	Top of ridge, 150 ft. above canon, bears NW and SE.
	Desc.
30.70	Begin steep descent, bears NW and SE.
35.35	Wash, 40 lks. wide, 20 ft. deep, in bottom of hollow, 75 ft. below ridge, course SE.
	Leave timber and enter dense undergrowth, bears NW and SE.
40.05	Set a sandstone, 12x12x4 ins., 8 ins. in the ground, for ¼ sec. cor., mkd. ¼ on N. face; from which
	A cedar, 10 ins. dia., bears S. 33° E., 165 lks. dist., mkd. ¼ S 36 B T.
	No other trees within limits; raise a mound of stone, 2 ft. base; 1½ ft. high, N. of cor.
	Enter scattering timber, bears NW and SE.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
43.30	Enter heavy timber and leave undergrowth,bears NW and SE.
52.60	Top of spur,60 ft.above hollow,bears NW and SE.
	Desc.
58.10	Bottom of hollow,75 ft.below ridge,course SE.
	Asc.
62.10	Top of spur,80 ft.above hollow,bears NW and SE.
	Desc.
65.00	Bottom of hollow,50 ft.below spur,course SE.
	Asc.
70.10	Top of ridge,180 ft.above hollow,bears NW and SE.
	Desc.abruptly.
80.10	The cor.of secs.25,26,35,and 36.
	Land,mountainous.
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,service berry,oak,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.
	Exceptionally difficult to survey,80.10 chs.
	July 22,1908:At this cor.I set off 20°16'N.,on the decl. arc;and OH 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°18'N.,which is the proper lat.nearly.

N.0°1'W.,bet.secs.25 and 26.

Over mountainous land;through heavy timber and dense undergrowth.

Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
7.40	Top of steep ascent,bears E.and W.
	Asc.more gradually.
28.70	Top of spur,100 ft.above sec.cor.,bears E.and W.
	Desc.
35.00	Bottom of hollow,100 ft.below spur,course SW.
	Asc.
40.00	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which
	A pinon pine,12 ins.dia.,bears S.48° E.,39 lks. dist..mkd.¼ S 25 B T.
	A cedar,8 ins.dia.,bears N.54° W.,76 lks. dist..mkd.¼ S 26 B T.
41.00	Top of steep ascent,60 ft.above ¼ sec.cor.,bears E.and W.
	Asc.more gradually.
70.00	Begin abrupt ascent,bears E.and W.
76.00	Foot of perpendicular sandstone ledge,300 ft.high,bears E.and W. Asc.more gradually.
77.00	Top of ridge,500 ft.above hollow,bears N.20° W.and SE.Desc.
	Leave heavy and enter scattering timber,bears E.and W.
80.00	Set a sandstone,16x14x5 ins.,11 ins.in the ground,for cor.of secs.23,24,25,and 26,mkd.with 2 notches on S.and 1 notch on E.edges;from which
	A cedar,8 ins.dia.,bears N.20° 35'E.,83 lks. dist..mkd.T 40 S R 8 W.S 24 B T.
	A cedar,10 ins.dia.,bears S.26° 13'E.,192 lks. dist..mkd.T 40 S R 8 W S 25 B T.
	A cedar 7 ins.dia.,bears S.36° 56'W.,55 lks. dist..mkd.T 40 S R 8 W S 26 B T.
	A cedar,7 ins.dia.,bears N.79° 22'W.,90 lks. dist..mkd.T 40 S R 8 W S 23 B T.
	Land,mountainous .
	Soil,gravelly and clay loam and rocky;3rd and 4th rate.

Subdivision of T.40 S.R.8 W.-Continued.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage, service berry, and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey ,80.00 chs.
	N.89° 40'E., on a random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.35	Intersect E.bdy.of Tp., 23 lks.N.of the cor.of secs.19, 24, 25, and 30, which is a sandstone, 10x12x6 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
	Thence I run
	S.89° 50'W., on a true line bet.secs.24 and 25.
	Over mountainous land; through scattering cedar and pinon pine timber, and dense undergrowth.
	Desc.
7.25	Leave cedar and pinon pine timber and enter cottonwood timber, bears N.and S.
9.50	Road from Orderville to Cedar City, bears N.and S.
10.85	Muddy Creek, 7 lks.wide, 4 ins.deep, in bottom of canon, 100 ft.below sec.cor., course S.
	Asc.
11.25	Leave cottonwood timber and enter heavy cedar and pinon pine timber, bears N.and S.
19.00	Begin steep asc., bears N.and S.
40.17½	Set a sandstone, 16x8x5 ins., 11 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine, 10 ins.dia., bears N.14° E., 45 lks. dist., mkd.¼ S 24 B T.
	A pinon pine, 14 ins.dia., bears S.15° W., 26 lks.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	dist.,mkd.¼ S 25 B T.
46.35	Top of spur,20 ft.above ¼ sec.cor.bears N.and S.
	Desc.
49.85	Bottom of hollow,60 ft.below spurcourse N.20° E.
	Asc.
77.00	Foot of perpendicular sandstone ledge,50 ft.high,bears N.and S.
80.35	The cor.of secs.23,24,25,and 26.
	Land,mountainous .
	Soil,gravelly and clay and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and cottonwood.
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.35 chs.
	Exceptionally difficult to survey,80.35 chs.

July 22,1908.

July 23,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37°19'N., on the lat.arc;20°7'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.23,24,25,and 26.

Thence I run

N.0°1'W.,bet.secs.23 and 24.

Over mountainous land;through heavy cedar and pinon pine timber and dense undergrowth.

Desc.

7.00	Top of perpendicular sandstone ledge,40 ft.high,bears N.30°W.and S.30°E.
	Desc.abruptly.
15.20	Bottom of hollow,150 ft.below sec.cor.,course S.30°E.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Asc. abruptly.
25.00	Top of steep ascent,bears E.and W.
	Asc.more gradually.
26.00	Top of spur,100 ft.above hollow,bears E.and W.
	Desc.
35.00	Bottom of hollow,80 ft.below spur,course NE.
	Asc.
40.00	Set a sandstone,14x12x5 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,4 ins.dia.,bears S.82° 30'E.,19 lks.dist..mkd.¼ S 24 B T.
	A cedar,7 ins.dia.,bears S.70° 50'W.,12 lks. dist.mkd.¼ S 23 B T.
47.50	Top of spur,300 ft.above hollow,bears E.and W.
	Desc.over a series of small gulches.
59.00	Bottom of hollow,200 ft.below ridge,course NE.
65.00	Ridge,150 ft.above hollow,bears NE and SW. Desc.
70.00	Bottom of hollow,150 ft.below ridge,course NE .Asc.
80.00	Set sandstone,24x12x6 ins.,18 ins.in the ground,for cor.of secs.13,14,23,and 24,mkd.with 3 notches on S. and 1 notch on E.edges;from which
	A cedar,12 ins.dia.,bears N.72° E.,42 lks. dist..mkd. T 40 S R 8 W S 13 B T.
	A cedar,6 ins.dia.,bears S.60° 30'E.,21 lks. dist..mkd.T 40 S R 8 W S 24 B T.
	A cedar,5 ins.dia.,bears S.51° 20'W.,40 lks. dist..mkd.T 40 S R 8 W S 23 B T.
	A cedar,5 ins.dia.,bears N.81° 40'W.,45 lks. dist..mkd.T 40 S R 8 W S 14 B T.
	Land,mountainous .
	Soil,clay and gravelly loam;and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage,oak,and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.✓
	N.89°50'E.,on a random line bet.secs.13 and 24.
40.00	Set temp.¼ sec.cor.
80.40	Intersect E.bdy.of Tp.,7 lks.S.of the cor.of secs. 13,18,19,and 24,heretofore described.
	Thence I run
	S.89°53'W.,on a true line bet.secs.13 and 24 .
	Over mountainous land through scattering timber and dense undergrowth.
	Desc.
12.05	Foot of descent,200 ft.below sec.cor.,bears N.and S.
	Enter bottom of canon.
21.30	Road from Orderville to Cedar City,bears N.and S.
24.05	Muddy creek,10 lks.wide,4 ins.deep,rapid current,rocky bottom,water usually muddy,in canon bottom,course S.
26.50	Leave canon bottom,bears N.and S.
	Asc.
40.20	Set a sandstone,18x14x8 ins.,12 ins.in the ground,for ¼ sec.cor..,mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears N.62°W.,42 lks. dist..mkd.¼ S 13 B T.
	A pinon pine,4 ins.dia.,bears S.51°42'W.,44 lks.dist..mkd.¼ S 24 B T.
52.35	Top of spur,80 ft.above ¼ sec.cor.,bears NE and SW.
	Desc.
57.00	Bottom of draw,35 ft.below spur,course NE
	Asc.
60.00	Top of spur,50 ft.above draw,bears NE and SW.
	Desc.
69.00	Draw,20 ft.below spur,course NE.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Asc.
71.35	Begin abrupt ascent over ledges and boulders,bears NE and SW.
79.65	Top of steep ascent,bears NE and SW.
	Leave ledges and boulders,bears NE and SW.
	Asc.more gradually.
80.40	The cor.of secs.13,14,23,and 24.
	Land,mountainous.
	Soil,sandy and clay and rocky;3rd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage,service berry,oak,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.40 chs.
	July 23,1908:At this cor.I set off 20° 04'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t., Observe the sun on the meridian ,the resulting lat.is 37° 20'N.,which is the proper lat.nearly.

	N.0° 1'W.,bet.secs.13 and 14.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
1.30	Top of spur,30 ft.above sec.cor.,bears NE and SW.
	Desc.
20.00	Bottom of hollow, 125 ft.below spur,course E.
	Asc.
21.50	Foot of perpendicular sandstone ledge,50 ft.high,bears N.60° E.and S.60° W.
39.50	Top of ridge,250 ft.above hollow,bears E.and W. Desc.
40.00	Set a sandstone,14x12x5 ins.,9 ins. in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	A cedar,7 ins.dia.,bears N.12° 40'W.,31 lks. Dist.,mkd.¼ S 14 B T.
	A pinon pine,10 ins.dia.,bears S.35° 20'E.,113 lks.dist. mkd.¼ S 13 B T.
52.70	Leave heavy and enter scattering timber,bears E.and W.
60.70	Bottom of canon,200 ft.below ¼ sec.cor.,course E. Asc.abruptly.
73.40	Leave timber and enter dense sage brush,bears E.and W.
80.00	Set a sandstone,20x12x6 ins.,15 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.with 4 notches on S. and 1 notch on E.edges;from which
	A cedar,6 ins.dia.,bears N.79° 30'E.,111 lks. dist..mkd. T 40 S R 8 W S 12 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,gravelly and clay loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

	N.89° 53'E.,on a random line bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E.bdy.of Tp., 2 lks.N.,of the cor.of secs. 7,12,13,and 18,heretofore described.
	Thence I run
	S.89° 52'W.,on a true line bet.secs.12 and 13.
	Over mountainous land;through heavy timber,and dense

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	undergrowth.
	Desc.
21.00	Bottom of hollow,50 ft.below sec.cor.,course S.60° W.
	Asc.
25.00	Top of spur,40 ft.above hollow,bears N.20° E.and S.20° W.
	Desc . over a series of ledges.
28.35	Bottom of canon,400 ft.below spur,course S.20° W.
	Asc.over broken ledges.
31.85	Leave ledges,bears N.25° E.and S.25° W.
40.90	Set a sandstone,18x12x4 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,13 ins.dia.,bears S.25° E.,51 lks. dist..mkd.¼ S 13 B T.
	A pinon pine,12 ins.dia.,bears N.30° W.,35 lks. dist..mkd.¼ S 12 B T.
42.85	Top of spur,450 ft.above canon,bears N.and S.
	Desc.
46.50	Top of nearly perpendicular ledge,bears N.and S.
48.00	Foot of ledge,150 ft.below top,bears N.and S.
	Desc,abruptly.
53.25	Road from Orderville to Cedar City,bears N.and S.
55.10	Muddy Creek,8 lks.wide,4 ins.deep,in canon,300 ft.below foot of ledge,course S.
	Asc.
80.90	The cor.of secs.11,12,13,and 14.
	Land,mountainous.
	Soil,clay and gravelly loam;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.90 chs.
	Exceptionallydifficult to survey,80.90 chs.
	July 23,1908.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	July 24,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 21'N., on the lat.arc;19° 55'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.11,12,13,and 14.
	Thence I run
	N.0° 1'W.,bet.secs.11 and 12.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
.40	Top of ridge,10 ft.above sec.cor.,bears N.20° E.and S.20° W.
	Desc.
11.70	Bottom of hollow,50 ft.below ridge,course N.30° E.
	Asc.
15.00	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
18.00	Pole fence,belonging to Ezra Stevens,bears E.and W.
20.00	Bottom of swale,40 ft.below spur,course E.
	Asc.
26.50	Top of spur,60 ft.above swale,bears E.and W.
	Desc.
30.50	Bottom of hollow,40 ft.below spur,course E.
	Asc.
32.50	Top of spur,100 ft.above hollow,bears E.and W.
	Desc.
35.00	Foot of descent,140 ft.below spur,bears N.80° W.and S.80° E.
	Enter canon bottom.
39.10	Wash,20 lks.wide,8 ft.deep,course S.80° E.
	Asc.from canon bottom.
39.70	Wire fence,bears N.80° W.and S.80° E.
40.00	Set a sandstone,16x12x5 ins.,11 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;and raise a mound of stone,

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	2 ft.base,1½ ft.high,W.of cor.
	From this cor.Ezra Stevens cabin bears N.84° 30'E.,15.00 chs,dist.
	His corral bears N.84° E.,10.00 chs. dist.
46.00	Top of ridge,100 ft.above canon bottom,bears NW and SE.
	Desc.
50.00	Enter meadow in Muddy Canon,bears N.20° W.and S.20° E.
54.00	Muddy creek,8 lks.wide,4 ins.deep,course SE.
56.90	Fence ,bears E.and W.
	Leave meadow,and enter dense undergrowth,bears E.and W.
58.50	Road from Orderville to Cedar City,bears N.30° W.and S.30° E.
65.00	Leave canon bottom,bears N.30° W.and S.30° E.
	Asc.
70.00	Ascend abruptly over ledges,bears NW and SE.
75.00	Top of ridge,250 ft.above canon,bears E.and W.
	Leave ledges,bears E.and W.
	Enter heavy timber,bears E.and W.
	Desc.
80.00	Set a sandstone,18x9x8 ins.,12 ins.in the ground,for cor.of secs.1,2,11,and 12,mkd .with 5 notches on S.and 1 notch on E.edges;from which
	A pinon pine,12 ins.dia.,bears N.48° 30'E.,69 lks.dist .mkd.T 40 S R 8 W S 1 B T.
	A cedar,10 ins.dia.,bears S.56° E.,74 lks. dist..mkd.T 40 S R 8 W S 12 B T.
	A pinon pine,16 ins.dia.,bears S.73° W.,40 lks. dist..mkd.T 40 S R 8 W S 11 B T.
	A pinon pine,10 ins.dia.,bears N.9° 45'W.,41 lks. dist..mkd.T 40 S R 8 W S 2 B T.
	Land,mountainous and nearly level canon bottom.
	Soil,sandy and clay and rocky;2nd and 4th rate.
	Timber,cedar,and pinon pine.
	Undergrowth,oak,service berry,larb,buck-brush,and sage brush.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,73.10 chs.

Exceptionally difficult to survey,73.10 chs.

N.89° 52'E.,on a random line bet.secs.1 and 12.

40.00 Set temp. ¼ sec.cor.

81.40 Intersect E.bdy.of Tp.,42 lks.S.of the cor.of secs.1,6,7, and 12.,heretofore described.

Thence I run

S.89° 34'W.,on a true line bet.secs.1 and 12.

Over mountainous land;through heavy timber and dense undergrowth.

Desc.

4.60 Head of hollow,60 ft.below sec.cor.,course NW.

Asc.

9.10 Top of ridge,150 ft.above hollow,bears NW and SE.

Desc.

16.40 Bottom of hollow,100 ft.below ridge,course N.

Asc.

20.80 Top of ridge,250 ft.above hollow,bears N.and S.

Desc. along south saide of canon.

30.00 Wash,20 lks.wide,6 ft.deep,in canon,200 ft.below ridge, course S.60°W.

Continue desc.

30.70 Same wash,20 lks.wide,in canon,course N.60°W.course of canon ,West.

Desc.in bottom of canon.

37.40 Same wash,15 lks.wide,7 ft.deep,course S.60°W.

Leave canon bottom,bears E.and S.60°W.

Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
41.40	Set a sandstone,18x10x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,11 ins.dia.,bears N.65° E.,14 lks. dist..mkd.¼ S 1 B T.
	A pinon pine,8 ins.dia.,bears S.40° W.,52 lks. dist.,mkd.¼ S 12 B T.
46.40	Begin abrupt ascent over a series of ledges,bears NE and SW.
47.65	Top of ridge,300 ft.above canon,bears N.20° E.and S.20° W. Leave ledges,bears N.20° E.and S.20° W. Desc.abruptly.
57.10	Bottom of canon,700 ft.below ridge,course S. Asc.abruptly.
70.40	Top of ridge,325 ft.above canon,bears N.and S. Desc. over ledges.
81.40	The cor.of secs.1,2,11,and 12. Land,mountainous. Soil,sandy and clay and rocky;2nd and 4th rate. Timber,cedar and pinon pine. Undergrowth,oak,service berry,larb and sage brush. Good grass for grazing. Mountainous or heavily timbered land,or land covered with dense undergrowth,81.40 chs. Exceptionally difficult to survey,81.40 chs. July 24,1908:At the noon hour the sky is overcast and solar observations are impossible.

Knowing that the line bet.secs.1 and 2 will not intersect the north bdy.of Tp.,within limits;
I run

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	N.0°1'W.,on a true line bet.secs.1 and 2.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
5.00	Head of hollow,60 ft.below sec.cor.,course W.
	Asc.
7.00	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
9.75	Bottom of hollow,100 ft.below ridge,course W.
	Asc.
13.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
14.10	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
23.40	Top of ridge,250 ft.above hollow,bears S.70°E.and N.70° W.
	Desc.
31.20	Bottom of canon,500 ft.below ridge,course S.70°W.
	There are a few yellow pine trees in bottom of canon.
	Asc.
40.00	Set a sandstone,20x6x8 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,8 ins.dia.,bears S.70°40'E.,50 lks.dist..mkd.¼ S 1 B T.
	A pinon pine,18 ins.dia.,bears S.5°30'W.,95 lks.dist..mkd.¼ S 2 B T.
57.10	Top of ridge,800 ft.above canon,bears NE and SW.
	Desc.
70.00	Bottom of canon,600 ft.below ridge,course W.
	Asc.
75.40	Top of spur,100 ft.above canon,bears E.and W.
	Desc.
77.80	Bottom of canon,90 ft.below spur,course S.60°W.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

89.65 Intersect N.bdy.of Tp.,21.45 chs.N.89° 48'W.,of the cor. of secs.35 and 36,heretofore described,and 19.59 chs. S.89° 48'E.,from the ¼ sec.cor.,on S.side sec.35,heretofore described.

Set a sandstone,20x8x6 ins.15 ins.in the ground,for closing cor.of secs.1 and 2,mkd. C C on S.,,with 1 groove on E.and 5 grooves on W.faces;from which

A cedar,8 ins.dia.,bears S.31° 20'E.,47 lks. dist..mkd. T 40 S R 8 W S 1 B T.

A pinon pine,14 ins.dia.,bears S.54° 25'W.,74 lks.dist..mkd.T 40 S R 8 W S 2 B T.

Land,mountainous .

Soil,clay and gravelly;3rd rate.

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,oak,service berry,buck brush,and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,89.65 chs.

Exceptionally difficult to survey,89.65 chs.

July 24,1908.

July 25,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 17'N. on the lat.arc;19° 42'N.,on the decl.arc;and determine a meridian with the solar,at the standard cor.of secs.34 and 35,on S.bdy.of Tp.,heretofore described.

Thence I run

N.0° 1'W.,bet.secs.34 and 35.

Over mountainous land;through heavy timber and dense

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	undergrowth.
	Asc.
1.00	Top of ridge,175 ft.above sec.cor.,bears NW and SE.
	Desc.
20.00	Bottom of hollow,180 ft.below ridge,course E.
	Asc.
24.20	Top of ridge,150 ft.above hollow,bears N.60° W.and S.60° E.
	Desc.
34.50	Bottom of hollow,90 ft.below ridge,course S.60° E.
	Asc.
38.40	Top of ridge,125 ft.above hollow,bears N.60° W.and S.60° E.
	Desc.
40.00	Set a sandstone,20x12x8 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,6 ins.dia.,bears S.17° E.,39 lks. dist..mkd.¼ S 35 B T.
	A cedar,10 ins.dia..,bears S.13° W.,110 lks. dist..mkd.½ S 34 B T.
40.75	Bottom of hollow,100 ft.below ridge,course S.60° E.
	Asc.
51.00	Top of ridge,175 ft.above hollow,bears N.60° W.and S.60° E.
	Desc.
56.50	Bottom of hollow,250 ft.below ridge,course S.60° E.
	Asc.
66.60	Top of ridge,260 ft.above hollow,bears N.60° W.and S.60° E.
	Desc.
73.00	Bottom of hollow,50 ft.below ridge,course S.45° E.
	Asc.
80.00	Set a sandstone,16x10x6 ins.,11 ins.in the ground,for cor.of secs.26,27,34,and 35,mkd.with 1 notch on S.and

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	2 notches on E.edges;from which
	A cedar,5 ins.dia.,bears N.60° E.,133 lks.
	dist..mkd.T 40 S R 8 W S 26 B T.
	A pinon pine,5 ins.dia.,bears S.51° 35'E.,63 lks.
	dist..mkd.T 40 S R 8 W S 35 B T.
	A pedar,6 ins.dia.,bears S.61° 51'W.,118 lks.
	dist..mkd.T 40 S R 8 W S 34 B T.
	A cedar,5 ins.dia.,bears N.61° 50'W.,118 lks.
	dist..mkd.T 40 S R 8 W S 27 B T.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,cedar pinon pine.
	Undergrowth,oak,sage and service berry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	East,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.25,26,35,and 36.
	Thence I run
	West,on a true line bet.secs.26 and 35.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
3.00	Begin steep descent,bears N.and S.
6.20	Bottom of canon,200 ft.below cor.;course S. Creek,4 lks. wide,2 ins.deep,in bottom,alkali water.
	Asc. abruptly.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
22.50	Top of steep ascent,bears NW and SE. Asc. Gradually.
24.00	Top of ridge,bears N.and S.
38.25	Wash,10 lks.wide,4 ft.deep,course S.E.
40.00	Set a sandstone,28x8x4 ins.,22 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears S.60°12'E.,37 lks. dist..mkd.¼ S 35 B T.
	A pinon pine,5 ins.dia.,bears N.22°14'E.,110 lks.dist .mkd.¼ S 26 B T.
41.00	Wash,20 lks.wide,10 ft.deep,course SE.
51.00	Top of spur,450 ft.above creek,bears N.and S.
	Desc.
56.00	Bottom of hollow,80 ft.below spur,course S.
	Asc.
59.40	Top of spur,100 ft.above hollow,bears N.and S.
	Desc.
60.50	Bottom of hollow,50 ft.below spur,course S.50°E.
	Asc.
62.80	Top of spur,50 ft.above hollow,bears NW and SE.
	Desc.
64.00	Bottom of hollow,40 ft.below spur,course S.20°E.
	Asc.
80.00	The cor.of secs.26,27,34,and 35.
	Land,mountainous.
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,sage,and service berry brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	July 25,1908:At this cor.I set off 19°39'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	meridian the resulting lat.is 37°18'N.,which is the proper lat.nearly.
	N.0°1'W.,bet.secs.26 and 27.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
25.00	Top of ridge,100 ft.above sec.cor.,bears E.and W.
	Desc.
29.00	Bottom of swale,20 ft.below ridge,course E.
	Asc. gradually.
40.00	Set a sandstone,15x14x6 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,5 ins.dia.,bears N.65°E.,47 lks. dist..mkd.¼ S 26 B T.
	A cedar,7 ins.dia..bears N.65°55'W.,31 lks. dist..mkd.¼ S 27 B T.
42.00	Top of ridge,150 ft.above swale,bears E.and W.
	Desc.
48.00	Bottom of hollow,150 ft.below ridge,course E.
	Asc.
52.00	Top of ridge,225 ft.above hollow,bears E.and W.
	Desc.
58.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.abruptly.
74.00	Foot of sandstone ledge,200 ft.high,bears E.and W.
78.40	Top of ridge,350 ft.above hollow,bears E.and W.
	Desc.abruptly over ledges.
80.00	Set a sandstone,20x6x5 ins.,15 ins.in the ground,for cor.of secs.22,23,26,and 27,mkd.with 2 notches on S.,and E.edges;from which

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

A cedar,14 ins.dia.,bears N.2° 42'E.,309 lks. dist..mkd.T 40 S R 8 W S 23 B T.

A pinon pine,7 ins.dia.,bears S.80° 15'E.,175 lks.dist..mkd.T 40 S R 8 W S 26 B T.

A cedar,14 ins.dia.,bears S.81° 45'W.,96 lks. dist..mkd.T 40 S R 8 W S 27 B T.

A cedar,10 ins.dia.,bears N.32° 45'W.,121 lks. dist..mkd.T 40 S R 8 W S 22 B T.

Land,mountainous;.

Soil,gravelly;3rd rate.

Timber,cedar and pinon pine.

Undergrowth,oak,sage,and service berry brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Exceptionally difficult to survey,80.00 chs.

East,on a random line bet.secs.23 and 26.

40.00 Set temp.¼ sec.cor.

80.10 Intersect N.and S.line,15 lks.N.of cor.of secs.23,24, 25,and 26.

Thence I run

N.89° 54'W.,on a true line bet.secs.23 and 26.

Over mountainous land;through heavy timber and scattering undergrowth.

Asc.

3.00 Top of ridge,100 ft.above sec.cor.,bears N.and S.

Desc.

15.00 Begin abrupt descent over ledges,bears N.and S.

20.00 Leave ledges,bears N.and S.

30.20 Foot of descent,450 ft.below ridge,bears N.and S.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Leave timber and enter dense undergrowth,bears N.and S.
	Enter bottom of canon.
31.00	Creek,1 lk.wide,1 in.deep,course S.
40.05	Set a sandstone,20x7x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
41.00	Creek,1 lk.wide,1 in.deep,course S.
	Asc.small ridge in canon bottom.
43.00	Top of small ridge,40 ft.high,bears N.and S.
	Desc.
47.00	Foot of descent,bears N.and S.
	Enter bottom same canon.
50.00	Leave canon bottom,bears N.and S.
	Enter heavy timber,bears N.and S.
	Asc.abruptly.
65.00	Enter ledges,bears N.20° W.and S.20° E.
80.10	The cor.of secs.22,23,26,and 27.
	Land,mountainous and level canon bottom.
	Soil,sandy and clay loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.
	Exceptionally difficult to survey,80.10 chs.

July 25,1908.

July 26,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37°19'N., on the lat.arc;19°29'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.22,23,26, and 27.

Subdivision of T.40 S., R.8 W.-Continued.

Chains	
	Thence I run
	N.0° 1'W.,bet.secs.22 and 23.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.along east slope of ridge over broken ledges.
6.00	Leave ledges,bears N.20°W.and S.20°E.
20.00	Begin abrupt descent,bears E.and W.
26.00	Wash,10 ft.deep,15 lks.wide,course N.,heads SW.
	Thence in bottom of wash.
28.00	Leave wash,course NE. Asc.
30.00	Top of spur,40 ft.above wash,bears E.and W.
	Desc.
32.50	Bottom of draw,50 ft.below spur,course NE. Asc.
33.50	Spur,20 ft.above draw,bears E.and W. Desc.
33.50	Enter heavy timber,bears NE and SW.
40.00	Set a sandstone,8x8x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,16 ins.diam.,bears S.37°E.,59 lks. dist..mkd.¼ S 23 B T.
	A pinon pine,14 ins.dia.,bears N.17°W.,68 lks. dist..mkd.¼ S 22 B T.
50.00	Bottom of canon,300 ft.below spur,course SE.
	Creek,1 lk.wide,1 in.deep,in bottom.
	Asc.
58.00	Asc. abruptly,over ledges,bears NW and SE.
60.00	Top of ridge,400 ft.above canon,bears NW and SE.
	Leave ledges,bears NW and SE.
	Desc.
70.00	Begin rapid descent,bears NW and SE.
	Leave timber,bears NW and SE.
80.00	Set a sandstone,20x12x10 ins.,15 ins.in the ground,for cor.of secs.14,15,22,and 23,mkd.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.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

Land,mountainous.

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

Timber,cedar and pinon pine.

Undergrowth,oak,service berry,sage,and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Exceptionally difficult to survey,80.00 chs.

— —

S.89° 54'E.,on a random line bet.secs.14 and 23.

40.00 Set temp.¼ sec.cor.

79.90 Intersect N.and S.line,14 lks.S.of the cor.of secs. 13,14,23,and 24.

Thence I run

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

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

17.60 Top of ridge,275 ft.above sec.cor.,bears N.and S.

Desc.

32.00 Bottom of hollow,100 ft.below ridge,course S.

Asc.

34.80 Top of ridge,75 ft.above hollow,bears N.and S.

Desc.abruptly over ledges.

39.95 Bottom of canon,200 ft.below ridge,course S.

Point for ¼ sec.cor.falls in canon where it is subject to floods and a corner could not be perpetuated;therefore I run to a point at which a cor.can be permanently set.

Asc.over ledges.

46.00 Top of ledges,200 ft.above canon,bears N.and S.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Set a sandstone,24x10x6 ins.,18 ins.in the ground,for witness cor.to ¼ sec.cor.,mkd.W.C ¼ on N.face;from which
	A cedar,10 ins.dia.,bears N.46° 50'E.,43 lks. dist..mkd.W C ¼ S 14.B T.
	A cedar,10 ins.dia.,bears S.38° 10'W.,14 lks. dist..mkd.W C ¼ S 23.B T.
	Continue asc.
52.00	Top of ridge,100 ft.above top of ledges,bears NW and SE.
	Desc.
55.00	Desc.abruptly over ledges,bears NW and SE.
57.00	Foot of ledges,bears NW and SE.
	Continue desc.
63.00	Creek,2 lks.wide,1 in.deep,in bottom of canon,350 ft. below ridge,course SE.
	Asc.
74.00	Begin abrupt ascent,bears NW and SE.
79.90	The cor.of secs.14,15,22,and 23.
	Land,mountainous.
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage ,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 79.90 chs.
	Exceptionally difficult to survey,79.90 chs.
	July 26,1908:At the noon hour the sky is overcast and solar observations are impossible.

N.0° 1'W.,bet.secs.14 and 15.

Over mountainous land;through scattering timber and dense undergrowth;

Desc.

Subdivision of T.40 S.,R.8 W.--Continued.

Chains	
13.00	Begin rapid descent,bears NW and SE.
18.00	Creek,1 lk.wide,1 in.deep,in bottom of canon,250 ft.below sec.cor.,course S .50° E.
	Asc.
20.70	Top of spur,50 ft.above canon,bears NW and SE.
	Desc.
31.00	Creek,1 lk.wide,1 in.deep,in bottom of canon,80 ft.below spur,course SE. Alkali water.
	Asc.
35.70	Foot of sandstone ledges,bears NW and SE.
38.00	Top of ledges,200 ft.above canon,bears NW and SE.
	Continue ascent.
39.00	Top of steep asc.,bears NW and SE.
	Asc.more gradually.
40.00	Set a sandstone,20x10x4 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,8 ins.dia.,bears S.74° E.,20 lks. dist..mkd.¼ S 14 B T.
	A pinon pine,20 ins.dia.,bears S.69° W.,69 lks. dist..mkd.¼ S 15 B T.
57.70	Top of spur,200 ft.above top of ledges,bears E.and W.
	Desc.
80.00	Set a sandstone,24x4x4 ins.,18 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.with 4 notches on S. and 2 notches on E.edges;from which
	A pinon pine,8 ins.dia.,bears N.88° 40'E.,56 lks. dist..mkd.T 40 S R 8 W S 11 B T.
	A cedar,12 ins.dia.,bears S.62° 30'E.,91 lks. dist..mkd.T 40 S R 8 W S 14 B T.
	A cedar,7 ins.dia.,bears N.44° 15'W.,118 lks. dist..mkd.T 40 S R 8 W S 10 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains Land,mountainous .

Soil,gravelly and clay loam and rocky;2nd and 4th rate.

Timber,cedar and pinon pine.

Undergrowth,oak,service berry,sage,and buck brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

Exceptionally difficult to survey,80.00 chs.

East,on a random line bet.secs.11 and 14.

40.00 Set temp.¼ sec.cor.

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

Thence I run

West,on a true line bet.secs.11 and 14.

Over mountainous land;through dense undergrowth and scattering timber.

Asc.

3.80 Foot of ledges,bears N.and S.

Asc.abruptly over ledges.

9.30 Top of ridge,150 ft.above sec.cor. ,bears N.30° W.and S.30° E.

Leave ledges,bears N.30° W.and S.30° E.

Desc.

24.20 Bottom of hollow,100 ft.below top of ridge,course S.

Asc.

38.70 Top of ridge,125 ft.above hollow,bears N.and S.

Desc.

40.00 Set a sandstone,18x12x5 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	A cedar,5 ins.dia.,bears S.10°10'E.,112 lks. dist..mkd.$\frac{1}{4}$ S 14 B T.
	A cedar,5 ins.dia.,bears N.35°30'W.,4 lks. dist..mkd.$\frac{1}{4}$ S 11 B T.
44.00	Bottom of hollow,70 ft.below ridge,course S.
	Asc.
48.00	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
50.00	Bottom of hollow,35 ft.below ridge,course S.
	Asc.
53.60	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
57.30	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
60.00	Top of spur,20 ft.above hollow,bears N.and S.
	Desc.
69.60	Bottom of canon,250 ft.below ridge,course S.60°E.
	Asc.
78.50	Top of ridge,350 ft.above canon,bears N. and SE.
	Desc.
80.12	The cor.of secs.10,11,14,and 15.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,service berry,oak,and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.12 chs.
	Exceptionally difficult to survey,80.12 chs.
	July 26,1908.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	July 27,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37°21'N.,on the lat.arc;19°15'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.10,11,14,and 15.
	Thence I run
	N.0°1'W.,bet.secs.10 and 11.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
6.00	Top of ridge,50 ft.above sec.cor.,bears N.60°W.and S.60° E.
	Desc.
8.00	Bottom of swale,20 ft.below ridge,course E.
	Asc.
10.00	Top of ridge,30 ft.above swale,bears N.60°E.and S .60°W.
	Desc.
19.30	Bottom of swale,40 ft.below ridge,course E.
	Asc.
23.40	Top of spur,50 ft.above swale,bears E.and W.
	Desc.
37.00	Bottom of canon,300 ft.below ridge,course E.
	Asc.
40.00	Set a sandstone,18x14x5 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,4 ins.dia.,bears N.44°10'E.,33 lks dist..mkd.¼ S 11 B T.
	A pinon pine,10 ins.dia.bears N.87°45'W.,73 lks.dist..mkd. ¼ S 10 B T.
54.20	Top of ridge,325 ft.above canon,bears E.and W.
	Desc.
80.00	Set a sandstone,16x8x4 ins.,11 ins.in the ground,for cor.of secs.2,3,10,and 11,mkd.with 5 notches on S.and 2 notches on S.edges;from which
	A pinon pine,6 ins.dia.,bears S.17°45'W.,26

Subdivision T.40 S.,R.8 W.-Continued.

Chains	
	lks.dist..mkd.T 40 S R 8 W S 10 B T.
	No other trees within limits;raise a mound of stone,
	2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay and gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar,pinon pine,and aspen.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	East,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.14	Intersect N.and S.line,at the cor.of secs. .1,2,11,and
	12.
	Thence I run
	West,on a true line bet.secs.2 and 11.
	Over mountainous land;through heavy timber,and dense
	undergrowth.
	Desc.
4.50	Foot of descent,50 ft.below sec.cor.,bears N.20°W.and
	S.20°E.
	Enter bottom of canon.
	Leave timber,bears N.20°W.and S.20°E.
	Enter dense willows,bears N.20°W.and S.20°E.
5.50	Road from Orderville to Cedar City,bears N.20°W.and S.
	20°E.
6.90	Muddy Creek,5 lks.wide,3 ins.deep,course S.20°E.
10.00	Leave canon bottom,bears N.20°W.and S.20°E.
	Leave willows,and enter dense oak and service berry brush,

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	bears N.20°W.and S.20°E.
	Enter scattering timber,bears N.20°W.and S.20°E.
	Asc. abruptly over ledges.
17.80	Top of steep ascent,bears N.and S.
	Leave ledges,bears N.and S.
	Asc.more gradually.
34.00	Top of ridge,1000 ft.above canon,bears NW and SE.
	Desc.abruptly.
40.07	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for ¼ sec.cor. mkd.¼ on N.face;from which
	A cedar,12 ins.dia.,bears N.58°25'E.,25 lks. dist..mkd.¼ S 2 B T.
	A cedar,18 ins.dia.,bears S.6°W.,8 lks. dist..mkd.¼ S 11 B T.
44.00	Bottom of canon,400 ft.below ridge,course S.
	Asc.
49.00	Top of spur,100 ft.above canon,bears N.and S.
	Desc.
55.80	Foot of descent,200 ft.below spur,bears N.60°W.and S.60° E.
	Enter bottom of canon.
	Leave oak and service berry brush and enter dense willows,bears N.60°W.and S.60°E.
62.00	Leave canon bottom,bears N.60°W.and S.60°E.
	Leave willows and enter dense oak and service berry brush,bears N.60°W.and S.60°E.
	Asc.
75.50	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
79.00	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
80.14	The cor.of secs.2,3,10,and 11.
	Land,mountainous .
	Soil,gravelly;3rd rate.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage,and buck brush,and willows.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.14 chs.
	Exceptionally difficult to survey,80.14 chs.
	July 27,1908:At this cor.I set off 19°12'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°22'N.,which is the proper lat.nearly.
	For reasons already explained
	I run
	N.0°1'W.,on a true line bet.secs.2 and 3.
	Over mountainous land;through dense undergrowth and scattering timber .
	Desc.
4.00	Foot of descent,100 ft.below sec.cor.,bears E.and W.
	Enter canon bottom.
7.00	Leave canon bottom,bears E.and W.
	Asc.
8.80	Top of spur,50 ft.above canon,bears NW and SE.
	Desc.
12.00	Foot of descent,60 ft.below spur,bears NW and SE.
	Enter canon bottom.
15.00	Leave canon bottom,bears NW and SE.
	Enter heavy cedar and pinon pine timber,bears NW and SE.
	Asc.
34.60	Top of ridge,800 ft.above canon,bears E.and W.
	Desc.

Continuation of 2.45, 2, 2 S 2, Continued

Dates

24,24 Leave heavy and enter swallowing timber, bears E. and W.

31,32 Head of holler, 40 ft. below ridge, course N.

Ans.

38,39 Ledge, 5 ft. high, at top of ridge, 4 ft. above holler, bears N W and S E.

Same.

40,50 Set a sandstone, 1 foot 1ns., 11 ins. in the ground, for a cor., cor., [illegible] on E. from which

A pine pine, 8 ins. dia., bears S. 80° 15' W., 40 lks. dist., [illegible] S 2 E 7.

"A other trees within limits; also a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

44,45 Head of canon, 300 ft. below ridge, course N.

Ans.

51,52 Top of ridge, 300 ft. above canon, bears N E and S W.

Same.

57,62 Bottom of canon, 300 ft. below ridge, course N E .

Ans.

60,70 Top of ridge, 300 ft. above canon, bears S. 70° E. and S. 70° W.

Same.

72,82 Head of holler, 60 ft. below ridge, course N E.

Ans.

87,88 Top of mound, 40 ft. above holler, bears E. and W.

Same.

92,94 Intersect E. bdy. of Tp., 19, 81 chs. S. 80° 45' W., from the cor. of sec. 34 and 35, heretofore described, and 36, 38 chs. S. 80° 45' W., of the E cor., cor., on E. bdy., sec. 34, heretofore described.

Set a sandstone, 1 foot 1ns., 18 ins. in the ground, for a cor., cor. of secs. 3 and 2, and 34, and 35, on E., with 3 grooves on N., and 4 grooves on E. from which

A pinon pine, 24 ins. dia., bears S. 60° E., 212 lks.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	lks.dist..mkd.T 40 S R 8 W S 2 B T.
	A pinon pine,20 ins.dia.,bears S.15° W.,92 lks.
	dist..mkd.T 40 S R 8 W S 3 B T.
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,89.54 chs.
	Exceptionally difficult to survey,89.54 chs.
	July 27,1908.
	July 28,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 17'N., on the lat.arc;19° 02'N.,on the decl.arc;and determine a meridian with the solar,at the standard cor.of secs. 33 and 34,on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0° 2'W.,bet.secs.33 and 34.
	Over mountainous land;through heavy timber;and dense undergrowth.
	Asc.
10.00	Begin abrupt ascent,bears E.and W.
22.70	Top of ridge,150 ft.above sec.cor.,bears E.and W.
	Desc.
32.40	Bottom of hollow,160 ft.below ridge,course W.
	Asc.
35.00	Top of ridge,75 ft.above hollow,bears E.and W.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	Desc.
38.70	Bottom of swale,20 ft.below ridge,course E.
	Asc.
40.00	Set a sandstone,18x6x4 ins.,12 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which
	A pinon pine,8 ins.dia.,bears N.75° 30'E.,69 lks. dist.,mkd.¼ S 34 B T.
	A pinon pine,10 ins.dia.,bears N.69° 55'W.,58 lks dist.,mkd.¼ S 33 B T.
40.70	Leave timber,bears E.and W.
58.80	Enter heavy timber,bears E.and W.
80.00	Set a sandstone,18x12x4 ins.,12 ins.in the ground,for the cor.of secs.27.28,33,and 34,mkd.with 1 noch on S.,with 3 notches on E.edges;from which
	A cedar,6 ins.dia.,bears N.44° 20'E.,24 lks. dist.,mkd.T 40 S R 8 W S 27 B T.
	A pinon pine,6 ins.dia.,bears S.38° 48'E.,44 lks dist.,mkd.T 40 S R 8 W S 34 B T.
	A cedar,10 ins.dia.,bearx S.13° 49'W.,28 lks. dist.,mkd.T 40 S R 8 W S 33 B T.
	A cedar,5 ins.dia.,bears N.62° 30'W.,30 lks. dist.,mkd.T 40 S R 8 W S 28 B T.
	Land,mountainous.
	Soil,clay and gravelly ;3rd rate.
	Timber,cedar and pinon pine
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

East,on a random line bet.secs.27 and 34 .

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S..line,at the cor.of secs.26,27,34, and 35.
	Thence I run
	West,on a true line bet.secs.27 and 34.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
12.40	Top of ridge,75 ft.above sec.cor.,bears N.and S.
	Desc.
16.30	Bottom of hollow,60 ft.below ridge,course SE.
	Asc. abruptly.
30.00	Top of steep ascent,bears NW and SE.
	Asc.more gradually.
40.00	Set a sandstone,16x7x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears N.59° E.,40 lks. dist..mkd.¼ S 27 B T.
	A cedar,7 ins.dia.,bears S.36° E.,38 lks. dist..mkd.¼ S 34 B T.
50.00	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
58.00	Bottom of swale,30 ft.below ridge,course SE.
	Asc.
80.00	The cor.of secs.27,28,33,and 34.
	Land,mountainous.
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	July 28,1908:At this cor.I set off 18° 59'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 18'N.,which is the proper lat.nearly.
	N.0° 2'W.,bet.secs.27 and 28.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
8.00	Top of ridge,100 ft.above sec.cor.,bears NW and SE.
	Desc.
10.00	Bottom of hollow,15 ft.below ridge,course S.60° E.
	Asc.
15.00	Top of ridge,275 ft.above hollow,bears NW and SE.
	Desc.
22.00	Bottom of hollow, 175 ft.below ridge,course SW.
	Asc.
36.00	Foot of perpendicular ledge,75 ft.high,bears NE and SW.
40.00	Set a sandstone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,10 ins.dia.,bears S.61° 32'W.,62 lks. dist..mkd.¼ S 28 B T.
	A cedar,15 ins.dia.,bears N.68° 23'E.,71 lks. dist..mkd.¼ S 27 B T.
41.50	Top of ridge,300 ft.above hollow,bears N.30° W.and S.30° E.
	Desc.
72.00	Bottom of hollow,60 ft.below ridge,course S.10° E.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
80.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for cor.of secs.21,22,27,and 28,mkd.with 2 notches on S., and 3 notches on E.edges;from which
	A yellow pine,13 ins.dia.,bears N.23° 26'E.,140 lks.dist..mkd.T 40 S R 8 W S 22 B T.
	A yellow pine,7 ins.dia.,bears S.81° 17'W.,270 lks.dist..mkd.T 40 S R 8 W S 28 B T.
	A yellow, pine,20 ins.dia.,bears N.22° 15'W.,301 lks.dist..mkd.T 40 S R 8 W S 21 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	July 28,1908.

July 29,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 20'N., on the lat.arc;18° 48'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.21,22,27,and 28.

Thence I run

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

40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,12 lks.S.of the cor.of secs. 22,23,26,and 27.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Thence I run
	S.89° 55' W.,on a true line bet.secs.22 and 27.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc. abruptly over ledges.
1.70	Leave ledges,bears NW and SE.
12.00	Top of ridge,75 ft.above sec.cor.,bears NW and SE.
	Desc.
12.20	Bottom of swale,125 ft.below ridge,course S.
	Asc.
32.70	Top of ridge,300 ft.above swale,bears N.and S.
	Desc.rapidly.
39.95	Set a sandstone,18x12x4 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,6 ins.dia.,bears N.16° E.,138 lks. dist..mkd.¼ S 22 B T.
	A cedar,14 ins.dia.,bears S.29° W.,67 lks. dist..mkd.¼ S 27 B T.
44.30	Bottom of hollow,200 ft.below ridge,course S.
	Asc. abruptly.
50.00	Begin more gradual ascent,bears N.and S.
69.40	Top of ridge,325 ft.above hollow,bears N.and S.
	Desc.
77.70	Wash,10 lks.wide,3 ft.deep,in swale,30 ft.below ridge, course S.
	Asc.
79.00	Enter scattering yellow pine, bears N.and S.
79.80	The cor.of secs.21,22,and 27,and 28.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.80 chs.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	N.0° 2'W.,bet.secs.21 and 22.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
10.30	Enter heavy timber,bears E.and W.
	Begin more rapid ascent,bears E.and W.
23.00	Top of spur,200 ft.above sec.cor.,bears E.and W.and N.
	Desc. along top of ridge.
23.50	Begin abrupt descent,bears E.and W.
39.50	Low saddle in ridge,75 ft.below top of last ridge.Asc.
40.00	Set a sandstone,18x12x7 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,6 ins.dia.,bears S.75°E.,27 lks dist..mkd.¼ S 22 B T.
	A pinon pine,11 ins.dia.,bears N.49°W.,58 lks. dist..mkd.¼ S 21 B T.
56.00	Foot of sandstone bluff,bears E.and W.
56.50	Top of same bluff,30 ft.high,bears E.and W.
	Begin precipitious desc.along top of ridge.
70.00	Low saddle in ridge,150 ft.below sandstone bluff.
	Asc.
80.00	Set a sandstone,24x7x5 ins.,18 ins.in the ground,for cor.of secs.15,16,21,and 22,mkd.with 40 S on NE and 8 W on SE faces;with 3 notches on S.,and E.faces; from which
	A pinon pine,24 ins.dia.,bears N.80°55'E.,72 lks.dist..mkd.T 40 S R 8 W S 15 B T.
	A pinon pine,16 ins.dia.,bears S. 54°46'E.,48 lks.dist..mkd.T 40 S R 8 W S 22 B T.
	A pinon pine,10 ins.dia.,bears S.42°W.,21 lks. dist..mkd.T 40 S R 8 W S 21 B T.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

A pinon pine,12 ins.dia.,bears N.25° 50'W.,54 lks. dist..mkd.T 40 S R 8 W S 16 B T.

Land,mountainous .

Soil,gravelly;3rd rate.

Timber,cedar,and pinon pine.and yellow pine.

Undergrowth,oak,service berry,and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

Exceptionally difficult to survey,80.00 chs.

July 29,1908:At this cor.I set off 18° 44'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,Observe the sun on the meridian,the resulting lat.is 37° 20'N.,which is the proper lat.nearly.

N.89° 55'E.,on a random line bet.secs.15 and 22.

40.00 Set temp.¼ sec.cor.

79.75 Intersect N.and S.line,23 lks.N,of the cor.of secs.14,15, 22,and 23.

Thence I run

N.89° 55'W.,on a true line bet.secs.15 and 22.

Over mountainous land;through heavy timber and dense undergrowth.

ABc.

2.75 Begin abrupt ascent,bears N.and S.

13.75 Top of ridge,200 ft.above sec.cor.,bears NW and SE.

Desc.

39.87½ Bottom of hollow,75 ft.below ridge,course SE.

Set a sandstone,18x12x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which

Subdivision of T40 S., R.8 W.-Continued.

Chains	
	A pinon pine,18 ins.dia.,bears N.44° E.,42 lks. dist..mkd.$\frac{1}{4}$ S 15 B T.
	No other trees within limits suitable to mark;raise a mound of stone ,2 ft.base,1½ ft.high,N.of cor.
	Asc.
47.50	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
55.75	Bottom of hollow,25 ft.below ridge,course SE.
	Asc.
78.75	Top of ridge,250 ft.above hollow,bears N.and S.
	Desc.
79.75	The cor.of secs.15,16,21,and 22.
	Land,mountainous .
	Soil,gravelly and clay ;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth ,oak,and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.75 chs.
	Exceptionally difficult to survey,79.75 chs.
	July 29,1908:At this cor.latitude 37° 19'54"N.,longitude 112° 42'47"W.,I set off 37° 20'N.,on the lat.arc;18° 42'N., on the decl.arc;and at 5 h 6 m p.m.,l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor. At 11h6 m p.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual,and mark a point in the line thus determined by a tack driven a wooden plug set in the ground,5.00 chs.N.of the cor.

July 29,1908.

Subdivision of 1,40 S.,R.8 E.-Continued.

Chains

July 30,1908:At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1°29' to the west,and mark the meridian thus determined,by cutting a small groove in the stone already set,5.00 chs.N.of the cor.;this mark falls 0.30 ins.east of the meridian determined with the solar. At 7 h 0 m a.m.,l.m.t.,I set off 37°20'N.,on the lat.arc; 18°33'N.,on the decl.arc;and mark the meridian determined with the solar,by a cross on the stone already set ,5.00 chs.N.of the cor.;this mark falls 0.34 ins.east of the meridian established by observation on Polaris.

The solar apparatus by p.m.and a.m.observations defines positions for meridians respectively about,0'16"west and 0'18"east of the meridian established by Polaris observation;therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N.16°17'W.,the angle thus determined gives the mag. decl.16°17'E.

N.0°2'W.,bet.secs.15 and 16.

Over mountainous land;through scattering timber and dense undergrorth.

Asc.along top of ridge.

0.80 Leave top of ridge,bears S.,E.,and W.

Desc.

10.30 Begin steep descent,bears E.and W.

20.00 Foot of steep descent,bears E.and W.

Desc.more gradually.

20.50 Bottom of hollow,200 ft.below top of ridge,course W.

Asc.

40.00 Set a sandstone,18x10x4 ins.,12 ins.in the ground,for

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	¼ sec.cor..,mkd.¼ on W.face;from which
	A yellow pine,12 ins.dia.,bears N.10°45'E.,188 lks.dist..mkd.¼ S.15 B T.
	A cedar,5 ins.dia.,bears N.49°05'W.,55 lks. dist..mkd.¼ S 16 B T.
50.56	Top of spur,200 ft.above ¼ sec.cor.,bears E.and W.
	Desc.
73.50	Bottomof canon,300 ft.below spur,course S.80°W.
	Asc.
80.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for cor.of secs.9,10,15,and 16,mkd.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.
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey,80.00 chs .
	———
	S.89°55'E.,on a random line bet.secs.10 and 15.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N.and S.line,12 lks.N.of the cor.of secs. 10,11,14,and 15.
	Thence I run
	N.89°50'W.,on a true line bet.secs.10 and 15.
	Mountainous land;through scattering timber and dense undergrowth.
	Desc.
9.00	Bottom of hollow,50 ft.below sec.cor.,course S.20°W.

Subdivision of T.40 S.,R.8 W. Continued.

Chains	
	Asc.
19.00	Top of spur,100 ft.above hollow,bears N.and S.
	Desc.
23.00	Head of canon,150 ft.below spur ,course S.
	Asc.
28.50	Top of spur,100 ft.above hollow,bears NW and SE.
	Desc.
31.70	Bottom of hollow,75 ft.below spur,course SE.
	Asc.
37.50	Top of spur,80 ft.above hollow,bears N.and S.
	Desc.
39.98	Set a sandstone,15x12x4 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,6 ins.dia.,bears S.15°W.,93 lks. dist..mkd.¼ S 15 B T.
	A pinon pine,9 ins.dia.,bears N.53° 20'E., 71 lks.dist..mkd.¼ S 10 B T.
42.00	Bottom of hollow,100 ft.below spur,course S.
	Asc.
53.00	Asc.abruptly,bears N.and S.
61.50	Top of spur,285 ft.above hollow,bears N.30°E.and S.30° W.
	Desc.
72.50	Creek,1 lk.wide,1 in.deep,in wash,15 lks.wide,10 ft. deep,in bottom of canon,300 ft.below spur,course S.30° W.
	Asc.
79.96	The cor.of secs.9,10,15,and 16,
	Land,mountainous.
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,buck and oak brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	79.96 chs.
	Exceptionally difficult to survey,79.96 chs.
	July 30,1908:At this cor.I set off 18°29'N.,on the decl. arc;and at 0 h 6 m p.m.L.m.t.,observe the sun on the meridian,the resulting lat.is 37°21'N.,which is the proper lat.nearly.
	N.0°2'W.,bet.secs.9 and 10.
	Over mountainous land;through scattering timber and desne undergrowth.
	Asc.
15.00	Top of spur,200 ft.above sec.cor.,bea rs NE and SW.
	Desc.
18.00	Bottom of hollow,175 ft.below spur,course W.
	Asc.
24.00	Tpp of spur,160 ft.above hollow,bears NE and SW.
	Desc.
30.00	Bottom of hollow,200 ft.below spur,course SW.
	Asc.
40.00	Set a white sandstone,16x12x10 ins.,11 ins.in the ground for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of sto stone,2 ft.base,1½ ft.high,W.of cor.
60.00	Top of spur,350 ft.above hollow,bears E.and W.
	Desc.
69.00	Swale,75 ft.below spur,course W.
	Asc.
76.00	Top of spur,150 ft.above swale,bears E.and W.
	Desc.
80.00	Set a sandstone,20x10x7 ins.,15 ins.in the ground,for cor.of secs.3,4,9,and 10,mkd.with 5 notches on S.and 3 notches on E.edges;and raise a mound of stone,2 ft.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains base,1½ ft.high,W.of cor.

Land,mountainous .

Soil,gravelly;3rd rate.

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,oak,service berry,and buck brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

Exceptionally difficult to survey,80.00 chs.

July 30,1908.

July 31,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 22'N., on the lat.arc;18° 19'N.,on the decl.arc;and determine a meridian with the solar ,at the cor.of secs.3,4,9,and 10.

Thence I run

S.89° 50'E.,on a random line bet.secs.3 and 10.

40.00 Set temp.¼ sec.cor.

80.00 Intersect N.and S.line,21 lks.S.of the cor.of secs.2,3, 10,and 11.

Thence I run

N.89° 59'W.,on a true line bet.secs.3 and 10.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.along north slope of ridge.

40.00 Set a sandstone,16x13x6 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.½ on N.face;from which

A pinon pine,40 ins.dia.,bears N.49° 15'E.,170 lks.dist.,mkd.¼ S 3 B T.

A pinon pine,14 ins.dia.,bears S.89° 30'E.,108 dist..mkd.½ S 10 B T.

And raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
45.00	Bottom of canon,200 ft.below sec.cor.,course N.70° E.
	Asc.
61.50	Top of ridge,500 ft.above canon,bears N.25° E.and S.25° W.
	Desc.
63.50	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
68.00	Top of spur,60 ft.above hollow,bears N.and S.
	Desc.
70.60	Bottom of hollow,100 ft.below spur,course N.
	Asc.
74.70	Top of ridge,300 ft.above hollow,bears N.and S.
	Desc.
80.00	The cor.of secs.3,4,9,and 10.
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,sage,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	July 31,1908:At the noon hour the sky is overcast and solar observations are impossible.

For reasons already explained I run
N.0° 2'W.,on a true line bet.secs.3 and 4.
Over mountainous land;through dense undergrowth and scattering timber .

	Desc.
5.40	Bottom of hollow,100 ft.below sec.cor.,course W.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains.	
	Asc.
7.00	Enter heavy timber,bears E.and W.
14.00	Top of ridge,175 ft.above hollow,bears NW and SE.
	Desc.
14.25	Leave heavy and enter scattering timber,bears NW and SE.
33.00	Bottom of hollow,500 ft.below ridge,course N.60°W.
	Asc.
34.00	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
35.50	Bottom of canon,40 ft.below spur,course SW.
	Asc.
40.00	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face; from which
	A cedar,8 ins.dia.,bears N.13°05'E.,103 lks.dist..mkd.¼ S 3 B T.
	A pinon pine,6 ins.dia.,bears N.10°W.,100 lks. dist..mkd.¼ S 4 B T.
41.00	Enter heavy timber,bears E.and W.
52.00	Top of ridge,500 ft.above canon,bears NW and SE.
	Desc.
56.40	Head of hollow,30 ft.below ridge,course E.
	Asc.
59.00	Top of spur,40 ft.above hollow,bears N.60°W.and S.60° E.
	Desc.
64.00	Head of hollow,130 ft.below spur,course E.
	Asc.
68.00	Top of spur,150 ft.above hollow,bears E.and W.
	Desc.
70.00	Head of hollow,30 ft.below spur,course E.
	Desc.
80.00	Top of ridge,100 ft.below hollow,bears N.30°E.and S.30° W.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Leave timber,bears N.30° E.and S.30° W.
	Desc.abruptly.
88.80	Point 250 ft.below ridge.
	Intersect N.bdy.of Tp.,19.89 chs.West of the cor.of secs. 33 and 34,heretofore described;and 19.06 chs.East of the ½ sec.cor.,on S.bdy.sec.33,heretofore described.
	Set a sandstone,16x9x5 ins.,11 ins.in the ground,for closing cor.of secs.3 and 4,mkd.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.
	Land,mountainous.
	Soil,gravelly and clay and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 88.80 chs.
	Exceptionally difficult to survey,88.80 chs.

July 31,1908.

Aug.1,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 17'N.,on the lat.arc;18° 4'N.,on the decl.arc;and determine a meridian with the solar,at the standard cor.of secs.32 and 33 ,on S.bdy.of Tp.,heretofore described.

Thence I run

N.0° 3'W.,bet.secs.32 and 33.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc.

12.00	Wire fence,bears N.60° W.and S.60° E.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
13.00	Leave heavy and enter scattering timber,bears SW.and NE
	Enter dense undergrowth,bears NE and SW.
17.20	Road to Orderville,bears NE and SW.
18.00	Fence,bears NE and SW.
	Leave undergrowth,bears NE and SW.
	Foot of descent,150 ft.below sec.cor.,bears NE and SW.
	Enter bottom of Meadow Canon.
	Enter cultivated field belonging to Hans Sorensen.
22.30	Pole fence,bears NE and SW.
	Leave cultivated field,bears NE and SW.
	Enter dense undergrowth,bears NE and SW.
24.35	Water ditch,2 lks.wide,8 ins.deep,course SW.
30.80	Leave canon bottom,bears NE and SW.
	Enter heavy timber and leave undergrowth,bears NE and SW.
	Asc.abruptly.
40.00	Set a sandstone,18x12x5 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,18 ins.dia.,bears N.73°E.,23 lks. dist..mkd.½ S 33 B T.
	A pinon pine,7 ins.dia.,bears N.75°15'W.,39 lks.dist..mkd.½ S 32 B T.
40.90	Top of spur,75 ft.above canon,bears E.and W.
	Desc.
45.50	Bottom of hollow,60 ft.below ridge ,course SE.
	Asc.
60.00	Leave timber and enter dense undergrowth,bears NE and W.
74.70	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.
80.00	Set a sandstone,20x12x7 ins.,15 ins.in the ground,for

Subdivision of T.40 S.,R.8 W.-Contuned,

Chains	
	cor.of secs.28,29,32,and 33,mkd.with 1 notch on S.and 4 notches on E.edges;and raised a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay and gravel ;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,sage,service berry,and rabbit brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,75.70 chs.
	East,on a random line bet.secs.28 and 33.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N.and S.line,12 lks.S.of the 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 mountainous land;through heavy timber and dense undergrowth.
	Asc.
8.95	Top of ridge,200 ft.above sec.cor.,bears N.and S.
	Desc.
22.50	Bottom of hollow,275 ft.below ridge,course S.
	Asc.
32.30	Top of spur,150 ft.above hollow,bears N.and S.
	Desc.
40.10	Set a limestone,16x12x4 ins.,11 ins.in the ground,for ¼ sec.cor..,mkd.¼ on N.face;from which
	A pinon pine,4 ins.dia.,bears N.82°15'E.,225 lks.dist..mkd.¼ S 28 B T.
	A pinon pine,8 ins.dia.,bears S.84°E.,130 lks.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	dist..mkd.¼ S 33 B T.
	Foot of descent,150 ft.below ridge,bears N.and S.
	Leave timber,bears N.and S.
	Enter bottom of Meadow Canon.
41.50	Road from Orderville to Zion Canon,bears N.and S.
42.00	Pole fence,bears N.and S.
	Leave undergrowth and enter cultivated field,bears N.and S.
45.20	Meadow creek,4 lks.wide,2 ins.deep,course S.
48.00	Pole fence,bears N.and S.
	Leave cultivated field,bears N.and S.
	Enter scattering timber,bears N.and S.
	Enter dense undergrowth,bears N.and S.
	Leave canon bottom,bears N.and S.
	Asc.abruptly.
50.00	Begin more gradual ascent,bears N.and S.
70.20	Wash,20 lks.wide,12 ft.deep,course SE.
	Continue ascent.
80.20	The cor.of secs.28,29,32,and 33.
	Land,mountainous and level.
	Soil,gravelly and clay loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,buck,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.20 chs.
	Exceptionally difficult to survey,74.20 chs.
	August 1,1908:At this cor.I set off 17° 59'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°18'N.,which is the proper lat.nearly.

N.0° 3'W.,bet.secs.28 and 29.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
4.90	Bottom of hollow,50 ft.below sec.cor.,course E.
	Asc.
9.00	Top of ridge,30 ft.above hollow,bears NW and SE.
	Desc.
13.50	Road,bears NE and SW.
17.60	Swale,30 ft.below ridge,course E.
	Asc.
21.10	Top of ridge,40 ft.above swale,bears NW and SE.
	Desc .
40.00	Set a sandstone,18x6x4 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
43.50	Creek,2 lks.wide,2 ins.deep,in bottom of wash,15 lks. wide,4 ft.deep,course E.
	Asc.
50.35	Road ,bears E.and W.(From Orderville to Zion Canon).
66.24	Top of ridge,30 ft.above wash,bears E.and W.
	Desc.
71.00	Desc.abruptly,bears E.and W.
73.85	Creek,4 lks.wide,2 ins.deep,in bottom of canon,75 ft. below ridge,course E.
	Asc.
77.05	Road,bears E.and W.
80.00	Set a sandstone,24x10x6 ins.,18 ins. in the ground,for cor.of secs.20,21,28,and 29,mkd.with 2 notches on S. and 4 notches on E.edges;from which
	A pinon pine,8 ins.dia.,bears N.52°05'W.,105 dist..mkd.T 40 S R 8 W S 20 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	From this point David Esplains house bears S.53°20'W.,

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	6.00 chs.dist.
	Land,mountainous.
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	———
	N.89° 55'E.,on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line,2 lks.N.of the cor.of secs.21,22, 27,and 28.
	Thence I run
	S.89° 56'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
.75	Bottom of swale,10 ft.below sec.cor.,course S.15° E.
	Asc.
30.00	Enter heavy timber,bears NW and SE.
34.60	Top of ridge,75 ft.above swale,bears N.and S.
	Desc.abruptly.
40.20	Set a sandstone,16x8x5 ins.,11 ins.in the ground,for ¼ sec.cor.,mkd.¼ on N.face;from which [illegible]
[illegible]	A pinon pine,18 ins.dia.,bears S.73° 15'W.,27 [illegible] lks.dist.,mkd.¼ S 28 B T. [illegible]
[illegible]	A cedar,12 ins.dia.,bears N.60° W.,69 lks. dist..mkd.¼ S 21 B T.
	Note: During the field examination of this township on Jan.19,1908,this cor.was found out of limits in measure-

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	ment,the length of the whole mile being within limits; Under the direction of U.S.Transitman Andrew Nelson I moved the cor.84 lks.east and 18 lks.north,the new description being as given above.
55.00	Foot of steep descent,350 ft.below ridge,bears N.and S. Leave timber and enter dense willows,bears N.and S. Desc.gradually.
58.00	Creek,2 lks.wide,3 ins.deep,in bottom of Meadow Canon, 360 ft.below ridge, course S. Asc. gradually.
59.40	Leave willows and enter heavy timber,bears N.and S. Asc.abruptly,bears N.and S.
64.50	Top of spur,70 ft.above canon,bears N.and S. Desc.
66.00	Leave heavy and enter scattering timber,bears N.and S.
71.00	Bottom of swale,20 ft.below spur,course S. Asc.gradually.
80.40	The cor.of secs.20,21,28,and 29. Land,mountainous . Soil,clay loam and gravelly;2nd and 3rd rate. Timber,cedar and pinon pine and yellow pine. Undergrowth,oak,service berry,sage,and buck brush and willows. Good grass for grazing. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.40 chs. Exceptionally difficult to survey,80.40 chs.

August 1,1908.

August 2,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37°19'N., on the lat.arc;17°49'N.,on the decl.arc;and determine a meridian with the solar at the cor. of secs.20,21,28,

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	and 29.
	Thence I run
	N.0° 3'W.,bet.secs.20 and 21.
	Over mountainous land;through scattering timber and dex dense undergrowth,
	Asc.abruptly.
17.00	Top of abrupt ascent,1000 ft.above sec.cor.,bears E.and W.
	Asc.more gradually along east side of mountain top.
35.00	Top of small spur,30 ft.above top of ascent,bears E.and W.
	Desc.
40.00	Set a sandstone,20x10x8 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,8 ins.dia.,bears S.11° 30'E.,320 lks. dist..mkd.¼ S 21 B T.
	A pinon pine,5 ins.dia.,bears N.68°W.,107 lks. dist..mkd.¼ S 20 B T.
43.60	Head of hollow,30 ft.below spur,course E.
	Asc.
51.95	Wash,10 lks.wide,3 ft.deep,course E.
54.00	Top of ridge,40 ft.above was,bears E.and W.
	Desc.
75.00	Headd of hollow, 50 ft.below spur,course E.
	Asc.
80.00	Top of spur,60 ft.above hollow,bears N.80°W.and S.80° E.
	Set a sandstone,18x12x8 ins.,12 ins.in the ground,for cor.of secs.16,17,20,and 21,mkd.with 3 notches on S.and 4 notches on E.edges;from which
	A yellow pine,12 ins.dia.,bears N.72°15'W.,229 lks.dist..mkd T 40 S R 8 W S 17 B T.
	No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Land,mountainous .
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	———
	N.89°56'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.46	Intersect N.and S.line,9 lks.N.of the cor.of secs.15,16,
	21 ,and 22.
	Thence I run
	West,on a true line bet.secs.16 and 21.
	Over mountainous land;through dense undergrowth and
	scattering timber.
	Desc.
4.00	Head of hollow,80 ft.below sec.cor.,course S.60°E.
	Asc.
7.00	Top of spur,70 ft.above hollow,bears N.60°E.and S.60°W.
	Desc.
11.00	Bottom of hollow,50 ft.below spur,course S.60°E.
	Asc.
14.00	Top of ridge,140 ft.above hollow,bears N.and S.
	Desc.
19.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
34.00	Top of rocky ridge,150 ft.above hollow,bears N.and S.
	Desc.abruptly.
40.24	Set a sandstone,24x6x5 ins.,18 ins.in the ground,for
	¼ sec.cor..mkd.¼ on N.face;from which

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

A cedar,24 ins.dia.,bears N.30°E.,128 lks. dist..mkd. ↑ S 18 B T.

A cedar,7 ins.dia.,bears S.85°20'W.,52 lks. dist..mkd.↑ S 21 B T.

44.50 Foot of descent,600 ft.below ridge,bears N.20°W.and S.20°E.

Enter canon bottom;and cultivated field. Leave undergrowth.

46.00 Road,bears N.20°W.and S.20°E.

47.00 Creek,3 lks.wide,2 ins.deep,course S.20°E. Good water.

48.00 Point from which the SE corner of Oscar Larson's granary bears North about 2.20 chs.dist. The South gable end of his house bears N.0°30'E.,about 3.00 chs.dist. The SE corner of his corral bears N.17°W.,about 4.00 chs. dist.

50.00 Fence ,bears N.10°W.and S.10°E.

Leave cultivated field,bears N.10°W.and S.10°E.

50.10 Road,bears N.10°W.and S.10°E.

50.40 Leave canon bottom,bears N.10°W.and S.10°E.

Enter scattering timber and dense undergrowth,bears N.10° W.and S.10°E.

Asc. rapidly.

80.48 The cor.of secs.16,17 ,21,and 20.,800 ft.above canon.

Land,mountainous and level canon bottom.

Soil,gravelly and clay loam and rocky;2nd and 4th rate.

Timber,cedar and pinon pine and yellow pine.

Undergrowth,buck brush ,oak,service berry,and sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.48 chs.

Exceptionally difficult to survey,74.50 chs.

August 2,1908:At this cor.I set off 17°44'N.,on the decl. arc;and at 0 h 0 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°20'N.,which is the proper lat.nearly.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	N.0° 3'W.,bet.secs.16 and 17.
	Over mountainous land;through dense undergrowth.
	Desc.
8.00	Enter scattering timber,bears E.and W.
11.00	Bottom of hollow,200 ft.below sec.cor.,course E.
	Asc.
13.40	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
20.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
22.50	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
36.50	Foot of steep descent,200 ft.below ridge,bears N.30° W.and S.30° E.
	Leave timber and enter dense willows,bears N.30° W.and S.30° E.
	Desc.gradually.
39.80	Creek,2 lks.wide,1 in.deep,in bottom of canon,250 ft. below ridge,course S.30° E.
	Asc.
40.00	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	An oak,4 ins.dia.,bears N.44° 55'E.,125 lks. dist..mkd.¼ S 10 B T.
	A yellow pine,20 ins.dia.,bears N.69° 40'W.,240 lks.dist..mkd.¼ S 17 B T.
47.00	Begin abrupt ascent,over ledges,bears NW and S.20° E.
52.00	Top of abrupt ascent,bears NW and S.20° E.
	Leave ledges,bears NW and S.20° E.
	Asc.more gradually.
59.00	Top of ridge,500 ft.above canon,bears E.and W.
	Desc.
62.50	Bottom of hollow,50 ft.below ridge,course W.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
76.50	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.
80.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for cor.of secs.8,9,16,and 17,mkd. with 4 notches on S.,and E.edges;and raise a mound of stone,2 ft.base,1½ ft.high, W.of cor.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,buck,service berry,and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally diffucult to survey,80.00 chs.
	———
	W.East,W.,on a random line bet.secs.9 and 16.
40.00	Set temp.¼ sec.cor.
80.50	Intersect N.and S.line,7 lks.S.of the cor.of secs.9,10, 15,and 16.
	Thence I run
	S.89°57'W.,on a true line bet.secs.9 and16.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
3.50	Top of spur,25 ft.above sec.cor.,bears N.and S.
	Desc.
6.20	Head of canon,60 ft.below spur,course S.
	From this point a small spring bears N.about 5.00 chs. dist. The water sinks almost as once.
	Asc.
21.45	Top of ridge,200 ft.above canon,bears N.and S.
	Desc. abruptly over broken ledges.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
31.65	Creek,1 in.wide,1 in.deep,in bottom of Meadow canon, 600 ft.below ridge,course S.20° E.
	Leave ledges,bears N.20° W.and S.20° E.
34.15	Wire fence,bears N.20° W.and S.20° E.
34.40	Asc.abruptly from canon,bears N.20° W.and S.20° E.
	Enter heavy yellow pine timber,bears N.and S.
36.00	Leave yellow pine timber,bears N.and S.
40.25	Set a yellow sandstone,20x8x4 ins.,15 ins.in the ground,for 1/4 sec.cor..mkd.1/4 on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
69.15	Top of ridge,600 ft.above canon,bears N.20° W.and S.20° E.
	Desc.
80.50	The cor.of secs.8,9,16,and 17.
	Land,mountainous .
	Soil,gravelly and clay ;3rd rate.
	Timber,cedar,piñon pine,and yellow pine.
	Undergrowth,sage,oak,service berry,larb,and buck brush.
	Good gras for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.50 chs.

August 2,1908.

August 3,1908:at 7 h 6 m a.m.,l.m.t.,I set off 37° 21'N., on the lat.arc;17° 33'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.8,9,16,and 17.

Thence I run

N.0° 3'W.,bet.secs.8 and 9.

Over mountainous land;through dense undergrowth.

Desc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
.40	Head of hollow,10 ft.below sec.cor.,course W.
	Asc.
8.00	Enter scattering timber,bears E.and W.
12.20	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
16.40	Head of hollow,100 ft.below ridge,course NE .
	Asc.
25.60	Top of ridge,250 ft.above hollow,bears NE and SW.
	Desc.
40.00	Set a sandstone,20x7x6 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,46 ins.dia.,bears S.34° 30'E.,107 lks.dist..mkd.¼ S 9 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Ebter scattering timber,bears NW and SE.
44.10	Bottom of canon,550 ft.below ridge,course S.70° E.
	Asc.
54.40	Top of spur,250 ft.above canon,bears N.30° E.and SW.
	Desc.
61.10	Head of hollow,60 ft.below spur,course W.
	Asc.
74.00	Top of ridge,500 ft.above hollow,bears E.and W.
	Desc.
80.00	Set a sandstone,24x8x4 ins.18 ins.in the ground,for cor.of secs.4,5,8,and 9,mkd.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.
	Land,mountainous .
	Soil,gravelly aand clay;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak and service berry brush.
	Good grass for grazing.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

Exceptionally difficult to survey,80.00 chs.

N.89° 57'E.,on a random line bet.secs.4 and 9.

40.00 Set temp.¼ sec.cor.

80.40 Intersect N.and S.line,7 lks.N.of the cor.of secs.3,4,9, and 10.

Thence I run

West,on a true line bet.secs.4 and 9.

Over mountainous land;through dense undergrowth and scattering timber.

Desc.

1.25 Bottom of hollow,60 ft.below sec.cor.,course N.65°W.

Asc.

11.00 Top of spur,50 ft.above hollow,bears N.60°W.and S.60° E.

Desc.

24.00 Bottom of Meadow Canon,400 ft.below spur,course S.25°W.

Asc.

40.20 Set a white sandstone,18x12x5 ins.,12 ins.in the ground, for ¼ sec.cor..mkd.¼ on N.face; from which

A pinon pine,8 ins.dia.,bears N.8° 40'E.,47 lks.dist..mkd.¼ S 4 B T.

A pinon pine,5 ins.dia.,bears S.21° 30'W.,66 lks. dist..mkd.¼ S 9 B T.

44.00 Top of spur,100 ft.above canon,bears N.and S.

Desc. abruptly.

54.00 Bottom of canon,100 ft.below ridge,course S.30°E.

Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
59.00	Begin abrupt ascent,bears N.30° W.and S.30° E.
80.40	The cor.of secs.4,5,8,and 9.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak and service berry brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.40 chs.
	Exceptionally difficult to survey,80.40 chs.
	August 3,1908:At this cor.I set off 17° 29'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian the resulting lat.is 37° 22'N.,which is the proper lat.nearly.
	For reasons already explained,
	I run
	N.0° 3'W.,on a true line bet.secs.4 and 5.
	Over mountaincus land;through dense undergrowth and scattering timber.
	Desc.
14.25	Bottom of hollow,100 ft.below sec.cor.,course N.80° E.
	Asc.
22.25	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
24.50	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
31.45	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
33.00	Enter heavy timber,bears E.and W.
35.00	Head of canon,50 ft.below ridge,course SE.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Asc.
40.00	Set a sandstone,24x7x4 ins.,18 ins.in the ground,for ¼ sec.cor..,mkd.¼ on W.face;from which
	A pinon pine,6 ins.dia.,bears N.52° 40'E.,34 lks. dist.mkd.¼ S 4 B T.
	A pinon pine,24 ins.dia.,bears S.27° 10'W.,65 lks.dist..mkd.¼ S 5 B T.
	Leave timber,bears E.and W.
42.25	Top of ridge,200 ft.above canon,bears N.30° E.and SW.
	Desc.
49.00	Head of hollow,50 ft.below ridge,course W.
	Asc.
51.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
56.00	Head of hollow,100 ft.below ridge,course S.80° W.
	Asc.
60.50	Top of ridge,100 ft.above hollow,bears E.and W.
	Desc.
72.40	Head of canon,500 ft.below ridge , course N.70° W.
	Asc.
80.95	Top of ridge,100 ft.above canon,bears NW and SE.
	Desc.
88.25	Point 200 ft.below ridge.
	Intersect N.bdy.of Tp.,18.52 chs.N.89° 39'W.,of the cor. of secs.32 and 33,heretofore described.;and 21.48 chs. S.89° 39'E.,of the ¼ sec.cor.,on S.bdy.sec.32,heretofore described.
	Set a sandstone,18x9x7 ins.,12 ins.in the ground,for closing cor.of secs.4 and 5,mkd.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.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

Undergrowth,oak and service berry.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,88.25 chs.

Exceptionally difficult to survey,88.25 chs.

August 3,1908.

August 4,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 17'N., on the lat.arc;17° 17'N.,on the decl.arc;and determine a meridian with the solar at the standard cor.of secs.31 and 32,on S.bdy.of Tp.,heretofore described.

Thence I run

N.0° 3 'W.,bet.secs.31 and 32.

Over mountainous land;through dense undergrowth .

Desc.

5.60 Wash,25 lks.wide,15 ft.deep,course SE.

Asc.

12.20 Top of ridge,20 ft.above wash,bears NW and SE.

Desc.

40.00 Set a sandstone,16x9x6 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.

44.70 Road,bears NW and SE.

51.20 Bottom of swale,25 ft.below ¼ sec.cor.,course SE.

Asc.

56.20 Top of knoll,30 ft.high.

Desc.

65.00 Swale,30 ft.below knoll,course E.

Asc.

76.95 Foot of steep ascent,bears E.and W.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Enter scattering timber,bears E.and W.
80.00	Set a sandstone,24cx6x4 ins.,18 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.with 1 notch on S.and 5 notches on E.edges;from which
	A pinon pine,10 ins.dia.,bears N.42° 30'E.,48 lks. dist..mkd.T 40 S R 8 W S 29 B T.
	A pinon pine,5 ins.dia.,bears S.40° E.,107 lks. dist..mkd.T 40 S R 8 W S 32 B T.
	A pinon pine,4 ins.dia.,bears S.57° W.,29 lks. dist..mkd.T 40 S R 8 W S 31 B T.
	A pinon pine,18 ins.dia.,bears N.2° 15'W.,69 lks. dist..mkd.T 40 S R 8 W S 30 B T.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

	East,on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
79.86	Intersect N.and S.line,19 lks.S.of the cor.of secs. 28,29,32,and 33.
	Thence I run
	S.89° 52'W.,on a true line bet.secs .29 and 32.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
7.35	Road,bears NE and SW.
18.00	Bottom of swale,10 ft.below sec.cor.,course S.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

27.50 Top of ridge,15 ft.above swale,bears N.and S.

Desc.

30.00 Old road,bears NE and SW.

39.93 Set a sandstone,16x12x6 ins.,11 ins.in the ground,for ¼ sec.cor.,mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.

43.00 Top of knoll.25 ft.above swale.

Desc.

46.00 Bottom of swale,15 ft.below knoll,course S.

~~50.00~~ Asc.

50.00 Top of knoll,25 ft.above swale.

Desc.

72.00 Head of swale,75 ft.below knoll,course S.

Asc.

79.00 Top of spur,50 ft.above swale,bears N.and S.

Desc.

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

Land,mountainous.

Soil,gravelly and clay;3rd rate.

Timber,cedar and pinon pine.

Undergrowth,oak and sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 79.86 chs.

Exceptionally difficult to survey,79.86 chs.

August 4,1908:At this cor.I set off 17° 13'N.,on the decl. arc;and at 0 h 6 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 18'N.,which is the proper lat.nearly.

West,on a random line bet.secs.30 and 31.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
40.00	Set temp. ¼ sec.cor.
61.75	Intersect W.bdy.of Tp.,27 lks.N.of the cor.of secs. 25,30,31,and 36,heretofore described.
	Thence I run
	N.89° 45'E.,on a true line bet.secs.30 and 31.
	Over mountainous land;through scattering yellow pine timber and dense undergrowth.
	Desc.
11.50	Bottom of canon,200 ft.below sec.cor.,course S.
	Asc.
21.75	Set a sandstone,18x11x7 ins.,12 ins.in the ground,for ¼ sec.cor. mkd.¼ on N.face;from which
	A pinon pine,8 ins.dia.,bears N.13°W.,49 lks. dist..mkd.¼ S 30 B T.
	A pinon pine,8 ins.dia.,bears S.59°W.,34 lks. dist. mkd.¼ S 31 B T.
22.75	Top of spur,200 ft.above canon,bears NE and SW.
	Desc.
25.25	Bottom of hollow,30 ft.below spur,course S.
	Asc.
29.25	Begin abrupt ascent,bears N.and S.
36.75	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
38.75	Top of bluffs,bears N.and S.
	Desc.abruptly over bluffs.
39.25	Foot of bluffs,bears N.and S.
54.75	Foot of descent,325 ft.below ridge,bears N.and S.
	Desc.gradually.
56.15	Swale,15 ft.below foot of descent,course N.
	Asc.
61.75	The cor.of secs.29,30,31,and 32.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine and yellow pine.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Undergrowth,oak,sage and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 61.75 chs.
	Exceptionally difficult to survey,61.75 chs.
	N.0°3'W.,bet.secs.29 and 30.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
3.20	Top of knoll 100 ft.above sec.cor.,bears NE and SW.
	Desc.
10.00	Bottom of swale,150 ft.below knoll,course NE.
	Asc.
18.30	Top of spur,75 ft.above swale,bears E.and W.
	Desc.
22.00	Bottom of swale,15 ft.below spur,course E.
	Asc.
26.00	Begin steep ascent,bears E.and W.
36.00	Point from which a log cabin bears N.44°E.,about 25.00 chs.dist. A spring bears NW from the cabin about 5.00 chs.dist.
36.70	Ridge ,300 ft.above hollow,bears E.and W.
	Desc.
39.00	Bottom of hollow,50 ft.below ridge,course E.
	Asc.
40.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for ¼ sec.cor..,mkd.¼ on W.face;from which
	A cedar,8 ins.dia.,bears N.16°E.,65 lks. dist..mkd.¼ S 29 B T.
	A cedar,8 ins.dia.,bears S.79°30'W.,130 lks.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	dist..mkd.¼ S 30 B T.
42.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
55.10	Bottom of hollow,150 ft.below ridge,course SE.
	Asc.
61.90	Top of ridge,250 ft.above hollow,bears NW and SE.
	Desc.
70.80	Head of hollow,50 ft.below ridge,course E.
	Asc.
73.00	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
80.00	Set a sandstone,24x8x8 ins.,18 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.with 2 notches on S.and 5 hotches on E.edges;from which
	A pinon pine,14 ins.dia.,bears N.7°E.,220 lks. dist..mkd.T 40 S R 8 W S 20 B T.
	A pinon pine,12 ins.dia.,bears S.15°40'E.,75 lks.dist..mkd.T 40 S R 8 W S 29 B T.
	A pinon pine,13 ins.dia.,bears S.5°W., 67 lks. dist..mkd.T 40 S R 8 W S 30 B T.
	A pinon pine,18 ins.dia.,bears N.57°20'W., 149 lks.dist..mkd.T 40 S R 8 W S 19 B T.
	Land,mountainous.
	Soil,clay and gravelly,3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth,oak,sage,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 4,1908.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	August 5,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 18 ' N.,on the lat.arc;17° 1'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,20,29, and 30.
	Thence I run
	N.89° 52'E.,on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
79.85	Intersect N and S.line,9 lks.S.of the cor.of secs. 20,21,28,and 29.
	Thence I run
	S.89° 48'W.,on a true line bet.secs.20 and 29.
	Over mountainous land;through dense oak and sage brush.
	Desc.
5.85	Road,bears N.60° W.and S.60° E.
7.40	Creek,3 lks.wide,3 ins.deep,in bottom of canon,100 ft. below sec.cor.,bears N.50° W.and S.50° E.
	Asc.
8.95	George Esplain's fence,bears N.50° W.and S.50° E.
23.85	David Esplain's fence,bears NE and SW,on ridge,brs.NE&SW.
25.55	Bottom of hollow,100 ft.below ridge,course NE.
	Asc.
35.85	Fence,bears N.60° W.and S.60° E.
39.92½	Set a sandsonte,24x8x6 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.-¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
45.35	Road,from Orderville to Zion Canon,bears NW and SE.
50.85	Bottom of hollow,100 ft.above last hollow,course NE.
	Asc.
59.35	Enter timber,bears N.and S.
62.55	Top of ridge,175 ft.above hollow,bears N.and S.
	Desc.
63.85	Leave timber,bears N.and S.
67.60	Bottom of hollow,200 ft.below ridge,course N.10° W.
	Asc.

Subdivision of T.40 S.,R.8 W.;-Continued.

Chains	
79.85	Point 250 ft.above hollow,.
	The cor.of secs.19,20,29,and 30.
	Land,mountainous.
	Soil,graveland clay;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,sage,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.85 chs.
	Exceptionally difficult to survey,79.85 chs.
	———
	S.89° 45'W.,on a random line bet.secs19 and 30.
40.00	Set temp.¼ sec.cor.
61.60	Intersect W.bdy.of Tp.,4 lks.S.of cor.of secs.19,24, 25,and 30,heretofore described.
	Thence I run
	N.89° 47'E.,on a true line bet.secs.19 and 30.
	Over mountainous land;through dense oak,service berry, buck brush and sage brush,and scattering timber.
	Desc.
7.00	Head of hollow,200 ft.below sec.cor.,course SE.
	Asc.
8.00	Top of spur,30 ft.above hollow,bears NW and SE.
	Desc.
16.25	Creek,1 lk.wide,2 ins.deep,in bottom of canon,200 ft. below spur,course S.
	Asc.
21.60	Set a sandstone,24x6x8 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,24 ins.dia.,bears N.54° 30'W.,220 lks.dist..mkd.¼ S 19 B T.
	A yellow pine,32 ins.dia.,bears S.60° 30'W.,111

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	Bks.dist..mkd.½ S 30 B T.
30.14	Top of ridge,300 ft.above canon,bears NE and S.10°W.
	Desc.
50.90	Head of hollow,80 ft.below ridge,course N.20° E.
	Asc.
56.40	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc. abruptly.
61.60	The cor.of secs.19,20,29,and 30.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar,pinon pine,and some yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 61.60 chs.
	Exceptionally difficult to survey,61.60 chs.
	August 5,1908:At the noon hour the sky is overcast and solar observations are impossible.

	N.0°3'W.,bet.secs.19 and 20.
	Over mountainous land;through dense undergrowth and scattering timber.
	Desc.
1.00	Head of hollow,30 ft.below sec.cor.,course E.
	Asc.
6.00	Top of ridge,80 ft.above hollow,bears NE and SW.
	Desc.abruptly.
18.60	Road,from Orderville to Zion Canon,bears N.60°W. and S.60°E.
	Food of steep,descent,bears N.60°W.and S.60°E.
	Desc.gradually.
18.70	Fence,bears N.60°W.and S.60°E.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
19.50	Leave undergrowth and timber and enter cultivated field, bears N.60° W.and S.60° E.
	This field belongs to David Esplain.
21.50	Creek,3 lks.wide,3 ins.deep,in bottom of canon,700 ft. below ridge,course S.60° E. Good water.
	Asc.
22.80	Leave cultivated land,bears N.60° W.and S.60° E.
	Enter dense undergrowth and scattering timber,bears N.60° W.and S.60° E.
	Asc.abruptly.
35.00	Leave timber,bears E.and W.
40.00	Set a sandstone,18x8x3 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
40.25	Top of ridge,700 ft.above canon,bears E.and W.
	Desc.
66.00	Bottom of canon,600 ft.below ridge,course S.80° E.
	Asc.
67.00	Enter heavy timber,bears N.80° W.and S.80° E.
80.00	Set a sandstone,24x6x4 ins.,18 ins.in mound of stone, for cor.of secs.17,18,19,and 20,mkd.with 3 notches on S.and 5 notches on E.edges;from which
	A pinon pine,12 ins.dia.,bears N.33° E.,44 lks. dist..mkd.T 40 S R 8 W S 17 B T.
	A pinon pine,12 ins.dia.,bears S.66° 40'E.,83 lks.dist..mkd.T 40 S R 8 W S 20 B T.
	A pinon pine,10 ins.dia.,bears S.45° W.,37 lks. dist..mkd.T 40 S R 8 W S 19 B T.
	A pinon pine,10 ins.dia.,bears N.39° 45'W.,84 lks. dist..mkd.T 40 S R 8 W S 18 B T.
	Land,mountainous .
	Soil,gravelly and clay loam;3rd rate.
	Timber,cedar and pinon pine.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Undergrowth,oak,service,larb,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land;or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 5,1908.

	August 6,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 20'N., on the lat.arc;16° 45'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.17,18,19,and 20.
	Thence I run
	N.89 °48'E.,on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line 21 lks.N.of the cor.of secs. 16,17,20,and 21.
	Thence I run
	S.89° 57'W.,on a true line bet.secs.17 and 20.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
9.50	Top of ridge,50 ft.above sec.cor.,bears N.and S.
	Desc.
13.50	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
16.90	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
21.00	Bottom of hollow,20 ft.below ridge,course S.30° E.
	Asc.
31.20	Top of ridge,40 ft.above hollow,bears N.20° E.and S.20° W.
	Desc.
40.05	Set a sandstone,20x14x6 ins.,15 ins.in the ground,for

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high.N.of cor.
42.50	Begin abrupt descent,bears N.and S.
50.85	Creek,1 lk.wide,2 ins.deep,in bottom of canon,500 ft. below ridge,course S.
	Asc.
70.00	Top of ridge,500 ft.above canon,bears NW and SE.
	Desc.
75.00	Head of hollow,100 ft.below ridge,course S.
	Asc.
80.10	The cor.of secs.17,18,19,and 20.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar pinon pine and yellow pine.
	Undergrowth,sage,larb,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.10 chs.
	Exceptionally difficult to survey,80.10 chs.

	S.89° 47'W.,on a random line bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
61.45	Intersect W.bdy.of Tp.,at the cor.of secs.13,18,19, and 24, heretofore described.
	Thence I run
	N.89° 47'E.,on a true line bet.secs.18 and 19.
	Over mountainous land;through dense undergrowth,and scattering timber.
	Desc.
19.40	Bottom of canon,300 ft.below sec.cor.,course S.60°E.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
21.45	Set a sandstone,18x10x5 ins,.12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which A yellow pine,12 ins.dia.,bears N.10° E.,57 lks. dist..mkd.¼ S 18 B T. No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
37.65	Top of ridge,300 ft.above canon,bears NW and SE. Desc. abruptly.
49.45	Leave timber,bears N.and S.
51.65	Wash,30 lks.wide,6 ft.deep,in bottom of canon,400 ft. below ridge,course S.30° E. Asc.
53.45	Enter heavy timber,bears N.and S.
59.00	Top of rocky spur,400 ft.above canon,bears N.and SW. Desc.
61.45	The cor.of secs.17,18,19,and 20. Land,mountainous. Soil,gravelly and clay;3rd rate. Timber,cedar,pinon pine,and yellow pine. Undergrowth,sage,oak,service berry,larb,and buck brush. Good grass for grazing. Mountainous or heavily timbered land,or land covered with dense undergrowth,61.45 chs. Exceptionally difficult to survey,61.45 chs. August 6,1908:At this cor.I set off 16° 41'N.,on the decl.arc;and at 0 h 6 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37° 21'N.,which is the proper lat.nearly.

N.0° 3'W.,bet.secs.17 and 18.

Over mountainous land;through heavy timber and dense

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	undergrowth.
	Asc.
5.00	Leave heavy and enter scattering timber,bears E.and W.
12.00	Top of ridge,150 ft.above sec.cor.,bears NW and SE.
	Desc.
40.00	Set a sandstone, 32x 8x4 ins.,24 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which
	A long leaf pine,20 ins.dia.,bears S.64° 45'W., 333 lks.dist..mkd. ¼ S 18 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Leave timber,bears NW and SE.
41.70	Head of hollow,100 ft.below ridge,course S.60°E.
	Asc.
47.40	Top of ridge,60 ft.above hollow,bears NW and SE.
	Desc.
65.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
65.50	Top of spur,10 ft.above hollow,bears E.and W.
	Desc.
67.50	Bottom of hollow,20 ft.below spur,course SE.
	Asc.
70.00	Enter scattering timber,bears NE and SW.
80.00	Set a sandstone,16x10x5 ins.,11 ins.in the ground,for cor.of secs.7,8,17,and 18,mkd.with 4 notches on S.and 5 notches on E.edges;from which
	A pinon pine,18ins.dia.,bears S.21° 15'E.,165 lks.dist..mkd.T 40 S R 8 W S 17 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,gravelly and clay loam;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage,oak,service berry,and buck brush.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.

N.89° 57'E.,on a random line bet.secs.8 and17.

40.00 Set temp.¼ sec.cor.

80.00 Intersect N.and S.line,7 lks.N.of the cor.of secs.8,9,16, and 17.

Thence I run

West,on a true line bet.secs.8 and 17.

Over mountainous land;through dense undergrowth.

Asc.

4.00 Top of spur,140 ft.above sec.cor.,bears N.and S.

Desc.

5.30 Bottom of hollow,130 ft.below spur,course S.

Asc.

14.70 Top of ridge,100 ft.above hollow,bears N.and S.

Desc.

27.70 Bottom of canon,250 ft.below ridge,course S.10° E.

Asc.

40.00 Set a sandstone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.

55.50 Top of ridge,250 ft.above canon,bears N.and S.

Desc.

65.70 Bottom of canon,250 ft.below ridge,course SE. Asc.

77.50 Top of ridge 150 ft. above canon bears NW and SE.

80.00 The cor.of secs.7,8,17,and 18.,300 ft.above canon .

Land,mountainous .

Soil,gravelly;3rd rate.

No timber.

Undergrowth,oak,service berry,larb,and buck brush.

Good grass for grazing.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 6,1908.
	August 7,1908:At 7 h 6 m a.m.,l.m.t.,I set off 37° 21'N., on the lat.arc;16° 28'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.7,8,17,and 18.
	Thence I run
	S.89°47'W.on a random line bet.secs.7 and 18.
40.00	Set temp.¼ sec.cor.
61.28	Intersect W.bdy.of Tp.,23 lks. S.of the cor.of secs. 7,12,13,and 18,heretofore described:
	Thence I run
	East,on a true line bet.secs.7 and 18.
	Over mountainous land;through dense undergrowth .
	Desc.
6.30	Top of ridge,100 ft.above sec.cor.,bears N.and S.
	Desc.
17.28	Bottom of hollow,80 ft.below ridge,course N.
	Asc.
20.50	Road,bears N.and S.
21.28	Set a sandstone,16x10x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
22.30	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
27.30	Bend in same road,bears N.70°W.and N.70°E.
28.40	Bottom of hollow,50 ft.below ridge,course N.
	Asc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
32.30	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
35.80	Same road,bears NW and SE.
36.75	Same road,bears N.and S.
39.80	Bottom of hollow,100 ft.below ridge,course N.30°W.
	Asc.
54.80	Top of ridge,350 ft.above hollow,bears NE and SW.
	Desc.
61.28	The cor.of secs.7,8,17,and 18.
	Land,mountainous.
	Soil,gravelly ;3rd rate.
	No timber.
	Undergrowth,oak,service berry,sage,larb,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 61.28 chs.
	Exceptionally difficult to survey,61.28 chs.

N.0° 3'W.,betsecs.7 and 8.

Over mountainous land;through dense undergrowth and scattering timber.

	Asc.
2.50	Top of ridge,80 ft.above sec.cor.,bears NW and SE.
	Desc.
10.00	Head of hollow,30 ft.below ridge,course SE.
	Asc.
15.40	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
26.40	Head of hollow,200 ft.below ridge,course NE .
	Asc.
29.80	Top of ridge,80 ft.aboce hollow,bears NE and SW.
	Desc.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
37.00	Bottom of hollow,350 ft.below ridge,course NE
	Asc.
40.00	Set a sandstone,16x12x8 ins.,11 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;and raise a mound of stone, 2 ft.base,1 ½ ft.high,W.of cor.
43.00	Top of ridge,80 ft.above hollow,bears N.80° E.and S.80° W.
	Desc.
56.00	Bottom of canon,350 ft.below ridge,course NW .
	Asc.
63.00	Top of spur,250 ft.above canon,bears NW and SE.
	Desc.
67.00	Bottom of canon,300 ft.below spur,course W.
	Asc.
80.00	Set a sandstone,18x12x8x ins.,12 ins.in the ground,for cor.of secs.5,6,7,and 8.,mkd.with 5 notches on S.,and E. edges;and raise a mound of stone,2 ft.base,1½ ft.high,W. of the cor.
	Land,mountainous .
	Soil,gravelly and clay ;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 7,1908:At this cor.I set off 16° 24'N.,on the decl. arc;and at 0 h 6 m p.m.l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 22'N.,which is the proper lat.nearly.

East,on a random line bet.secs.5 and 8.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
40.00	Set temp.¼ sec.cor.
80.16	Intersect N.and S.line,at the cor.of secs.4,5,8,and 9.
	Thence I run
	West,on a true line bet.secs.5 and 8.
	Over mountainous land;through dense undergrowth;and scattering timber.
	Asc.
2.50	Top of ridge,40 ft.above sec.cor.,bears N.and S.
	Desc.
15.00	Head of canon,350 ft.below ridge,course S.10° E.
	Asc.
21.70	Top of ridge,300 ft.above canon,bears N.and S.
	Desc.
26.00	Head of canon,200 ft.below ridge,course S.20° E.
	Asc.
34.30	Top of ridge,250 ft.above canon,bears N.and S.30° W.
	Desc.
40.08	Set a sandstone,20x10x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears N.59° 45'W.,225 lks. dist..mkd.¼ S 5 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
40.30	Head of canon,140 ft.below ridge,course S.W.
	Asc.
43.50	Top of spur,30 ft.above canon,bears N.and S.
	Desc.
58.45	Bottom of hollow,150 ft.below spur,course S.
	Asc.
62.50	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
66.55	Bottom of hollow,130 ft.below ridge,course S.
	Asc.
70.85	Top of ridge,140 ft.above hollow,bears N.and S.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	Desc.
75.40	Bottom of hollow,250 ft.below ridge,course S.
	Asc.
80.16	The cor.of secs.5,6,7,and 8.
	Land,mountainous.
	Soil,gravelly and clay;3rd rate.
	Timber,cedar and pinon pine;and yellow pine.
	Undergrowth,oak,service berry,larb,sage ,and buck bruh.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.16 chs.
	Exceptionally difficult to survey,80.16 chs.
	August 7,1908.

August 8,1908:At 7 h. 6 m. a.m.,l.m.t.,I set off 37° 22'N., on the latl.arc;16° 10'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,7,and 8.

Thence I run

West,on a random line bet.secs.6 and 7.

40.00	Set temp.¼ sec.cor.
61.25	Intersect W.bdy.of Tp.,19 lks.S.of the cor.of secs.1, 6,7,and 12,heretofore described.

Thence I run

S.89° 50'E.,on a true line bet.secs.6 and 7.

Over mountainous land;through dense undergrowth and heavy timber.

	Asc.
4.25	Foot of sandstone ledges,bears N.and S.80°E.
	Asc.abruptly over broken ledges.
15.85	Top of ledges,bears N.and S.80°E.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
	From this point John Lemon's unfinished cabin bears N.53° 20'W.,about 30.00 chs.dist. His Dug Out bears S.54° 25'W.,about 35.00 chs.dist.
17.00	Top of ridge,350 ft.above sec.cor.,bears N.and S.80° E.
	Desc.
21.25	Set a sandstone,20x7x5 ins.,15 ins.in the ground,for. ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears N.56° 45'E.,50 lks. dist..mkd.¼ S 6 B T.
	A cedar,12 ins.dia.,bears S.44° 30'W.,80 lks. dist..mkd.¼ S 7 B T.
	Note:During field examination of this township,on January 18,1909,this cor.was found out of limits;in measurement and bearing;the length and course of the whole mile being within limits;Under direction of U.S.Transitman Andrew Nelson I moved the cor.17 lks. west and 22 lks.N.;the new description being as given above.
24.65	Bottom of hollow,150 ft.below ridge,course S.
	Asc.
31.25	Top of ridge,350 ft.above hollow,bears N.and S.
	Desc.
37.85	Bottom of hollow,350 ft.below ridge,course S.
	Asc.
38.00	Leave timber,bears NW and SE.
44.75	Top of ridge,250 ft.above hollow,bears N.and S.
	Desc.
51.50	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
58.70	Top of ridge,200 ft.above hollow,bears N.and S.
	Desc.
61.25	The cor.of secs.5,6,7,and 8.
	Land,mountainous.
	Soil,gravelly;and clay;3rd rate.

Subdivision of T.40 S., R.8 W.-Continued.

Chains	
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, oak, sage, service berry, and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 61.25 chs.
	Exceptionally difficult to survey, 61.25 chs.
	August 8, 1908 At the noon hour the sky is overcast and solar observations are impossible.
	For reasons already explained I run N.0°3'W., on a true line bet. secs. 5 and 6.
	Over mountainous land; through dense undergrowth; and scattering timber.
	Asc.
3.00	Top of spur, 30 ft. above sec. cor., bears NW and SE.
	Desc.
11.45	Bottom of hollow, 50 ft. below ridge, course S. 80° E.
	Asc.
15.00	Top of ridge, 40 ft. above hollow, bears N. 80° W. and S. 80° E.
	Desc.
18.10	Bottom of hollow, 50 ft. below ridge, course SE.
	Asc.
26.10	Top of ridge, 200 ft. above hollow, bears N. 70° E. and S. 70° W.
	Desc.
40.00	Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for ¼ sec. cor. mkd. ¼ on W. face; from which
	A yellow pine, 20 ins. dia., bears N. 15° 15' E., 164 dist., mkd. ¼ S 5 B T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
40.30	Begin abrupt descent, bears N. 80° W. and S. 80° E.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains	
46.70	Bottom of canon,700 ft.below ridge,course W.
	Asc.abruptly over ledges.
52.50	Leave ledges,bears E.and W.
56.50	Top of ridge,350 ft.above canon,bears NW and SE.
	Desc.
62.00	Bottom of hollow,50 ft.below ridge,course S.80° E.
	Asc.
63.00	Top of ridge,40 ft.above hollow,bears E.and W.
	Desc.
65.20	Bottom of hollow,30 ft.below ridge,course S.50° E.
	Asc.
75.00	Top of ridge,250 ft.above hollow,bears E.and W.
	Desc.
82.30	Begin abrupt descent over ledges,bears E.and W.
84.00	Leave ledges,bears E.and W.
88.27	Intersect N.bdy.of Tp.,13.32 chs.West of the cor.of secs.
	31 and 32,heretofore described.;
	Set a sandstone,20x12x4 ins.,15 ins.in the ground,for
	closing cor.of secs.5 and 6,mkd.C C on S.,with 5
	grooves on E.and 1 groove on W.faces;from which
	A pine,10 ins.dia.,bears S.8° E.,21 lks.
	dist..mkd.T 40 S R 8 W S 5 B T.
	A pine,24 ins.dia.,bears S.44° 30'W.,28 lks.
	dist..mkd.T 40 S R 8 W S 6 B T.
	Land,mountainous.
	Soil,gravelly;3rd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth,
	88.27 chs.
	Exceptionally difficult to survey,88.27 chs.
	August 8,1908.

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

GENERAL DESCRIPTION.

This township is all mountainous land.The ridges are steep and rugged ,ranging in height from 30 ft.to 700 ft.high,and having a northerly and southerly trend. There are three main canons and tributaries traversing the township from north to south and drain into the south fork of the Rio Virgin.Some of these canons are boxed in in places with ledges ranging from 20 ft.to 300 ft.in height.

The soil, is practically all clay and gravelly except in a few places where it is rocky;and ranges from 2nd to 4th rate.In the canon bottoms the soil is of the richer class and supports a good growth of nutritious meadow grasses while over the mountainous portions good grazing grasses grow.

The prevailing timber is cedar and pinon pine with yellow pine scattered throughout the central and northern portion of the township.Scattering cottonwoods are found along the banks of the Muddy Creek.

Practically the whole township is covered with a dense undergrowth of oak,service berry,buch rush,larb and sage brush,and willows along the creek banks.

The township is well watered for grazing purposes.in the east and west parts by the Muddy and Meadow Creeks respectively;and in the central part by an alkali creek unfit for man or beast .

Hyrum W.Stevens has a claim in sec.2,not seen from line,consisting of a fenced enclosure of about 30 acres, in Meadow canon,part of which is meadow land from which hay is cut every year,value of improvements about $150.00

Ezra W.Stevens has a claim in sec.12,consisting of a

Subdivision of T.40 S.,R.8 W.-Continued.

Chains

log house and corral and fenced enclosure of about 100 acres;about twenty acres cultivated.Value of improvements about $400.00.

Oscar Larson has a claim in sec.16 consisting of a lumber house and grainery and an enclosed cultivated field of about 15 .00 acres. Value of improvements about $500.00 .

David Esplain has a claim is sec.20,consisting of a log cabin,granary ,stack yard and anclosure of about 160 acres;about 30.00 acres of which is cultivated. Value of improvements about $1000.00.

Hans Corensen has a claim in secs.32 and 33,consisting of about 20 acres of cultivated land.VAlue of improvements about $100.00 .

The township is entirely of sedimentary origin probably of Cretaceous age.No evidence exists of any earth movements and hence the strata are practically in their original horizontal position. Throughout the township there are numerous minor outcroppings of lignitic coals .In the township east some prospecting has been done and a little coal of poor quality extracted;but up to the present no developments have been made in this township,and it is questionable in my mind if the coal is of a quality that will make it commercially valuable.

Leo A. Farrell
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

For list of names and final oath of assistants see book "U", *Chainman.*

Tp. 40 S., R. 10½W. ....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavit see book "U" Tp.40 S., R. 10½W.

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 25, 1909

The foregoing field notes of the survey of the Subdivisional lines of Township No.40 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Leo A. Snow under his contract No. 304, dated May 14, 1908, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull

United States Surveyor General.

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

.....

United States Surveyor General.

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