Volume

#

R0359

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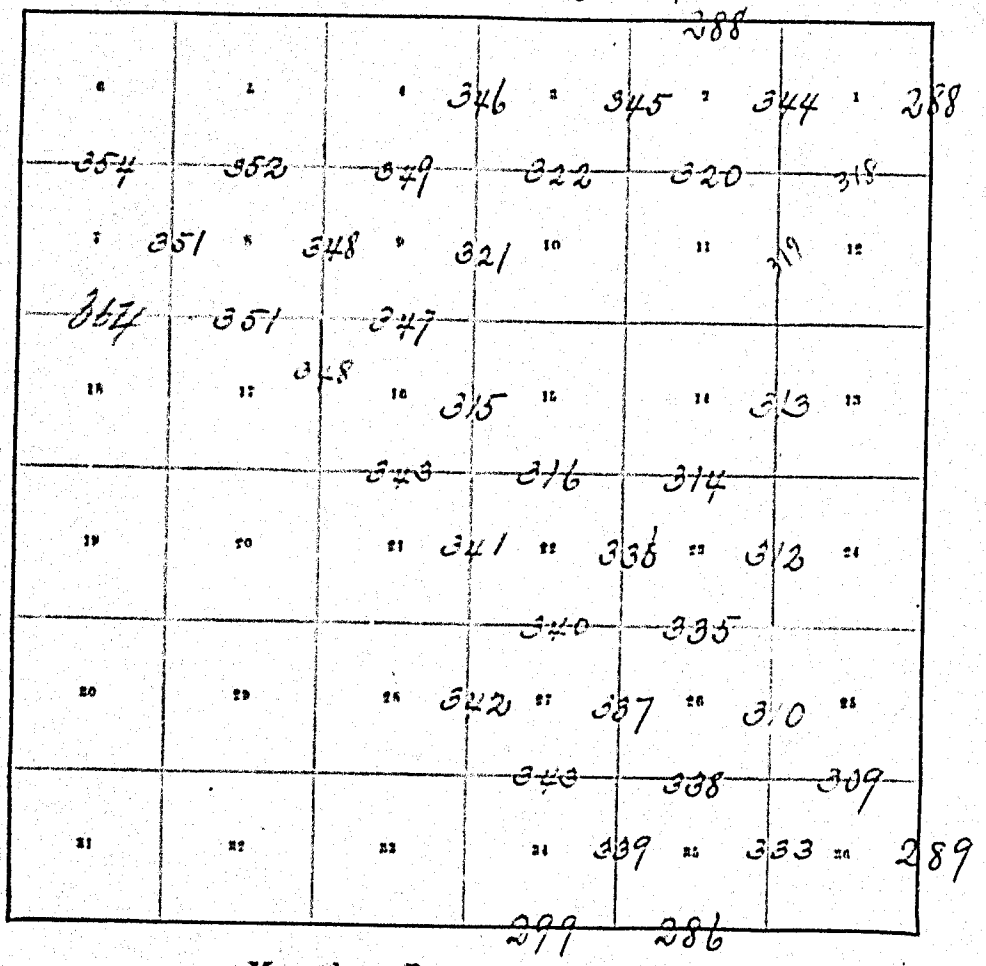

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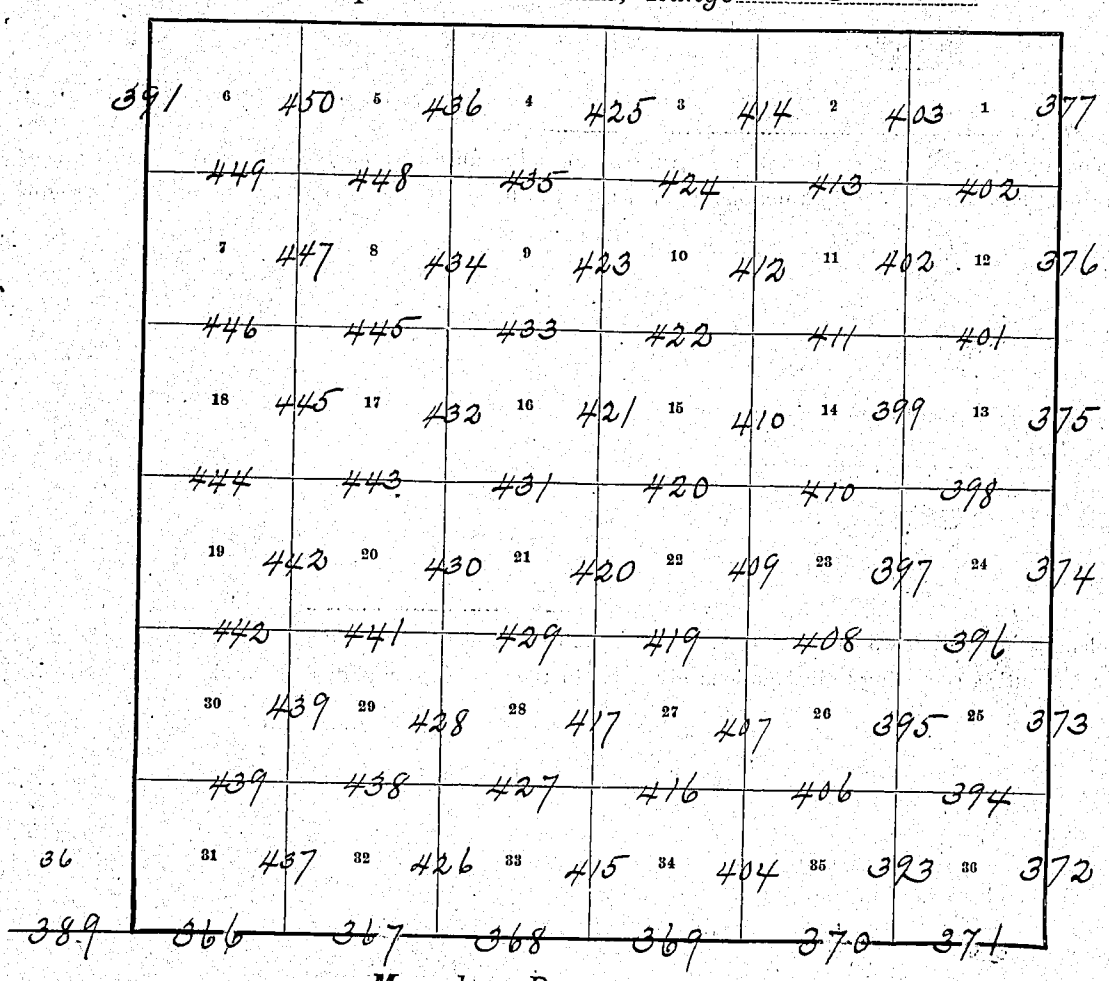

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BOOK A-359

L.

FIELD NOTES

H.J.B

OF THE SURVEY OF THE

EMERY VALLEY GUIDE MERIDIAN,

Through Township No. 39 South,

Between Ranges Nos. 3 and 4 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. ~~190x~~

Survey commenced August 10, 1908. ~~190x~~

Survey completed August 12, 1908. ~~190x~~

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Mex. 5-41-75

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BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Menaies Macfarlane	Chainman
Reuben Stratton	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

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1H

BOOK A-359

PRELIMINARY OATHS OF ASSISTANTS.

We, Menzies Macfarlane, Reuben Stratton and Angus M. Woodbury, 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 the Emery Valley Guide Meridian, through Tp. 39 South, between Ranges 3 and 4 West, of the Salt Lake Base and Meridian, Utah.

Menzies Macfarlane, Chainman.

Reuben Stratton, Chainman.

Angus M. Woodbury

N. Henry Savage

Subscribed and sworn to before me this 20th day of June, 1908.

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 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 Emery Valley Guide Meridian, through Tp. 39 South, between Ranges 3 and 4 West, of the Salt Lake Base and Meridian, Utah.

Rass Macfarlane, Moundman.

Samuel Brooks, Moundman.

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U. S. Deputy Surveyor

SEAL

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 the Emery Valley Guide Meridian, through Tp. 39 South, between Ranges 3 and 4 West, of the Salt Lake Base and Meridian, Utah.

Grant Gregerson, Axman.

Eldon Snow, Axman.

Subscribed and sworn to before me this 20th day of June, 1908.

Leo A. Snow

U. S. Deputy Surveyor

SEAL

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 the Emery Valley Guide Meridian, through Tp. 39 South, between Ranges 3 and 4 West, of the Salt Lake Base and Meridian, Utah.

James S. Gregerson, Flagman.

Subscribed and sworn to before me this 20 th day of June, 190 8.

Leo A. Snow

U. S. Deputy Surveyor.

SEAL

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Emery Valley Guide Meridian,
through Tp.39 S.,between Ranges 3 and 4 West.

Survey commenced August 10,1908,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 verniers 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 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 established by Polaris observation;I proceed as follows:

At the cor.of Tps.39 and 40 S.,Rs.3 and 4 W.,latitude 37° 22'31"N.,longitude 112° 13'23"W.,I set off 37° 23'N.,on the lat.arc;15° 31'N.,on the decl.arc;and at 4 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 cor.

At 10 h 19 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 in a wooden plug set in the ground,5.00 chs.N.of the cor.

August 10,1908.

August 11,1908: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 0.38

Chains	
	ins.east of the meridian determined with the solar.
	At 7 h 5 m a.m.,l.m.t.,I set off 37° 23'N.,on the lat.arc; 15° 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 0.30 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 0'20"west and 0'16"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° 10'W.,the angle thus determined gives the mag.decl.16° 10'E.
	———
	I
	From the cor.of Tps.39 and 40 S.,Rs.3 and 4 W.,which is a sandstone,10x9x7 ins.,above ground,firmly set and mkd.and witnessed as described by the surveyor general.
	I mark bearing trees as follows:
	A cedar,16 ins.dia.,bears N.88° 53'E.,437 lks. dist..mkd.T 39 S R 3 W S 31 B T.
	A cedar,5 ins.dia.,bears S.80° 55'E.,252 lks. dist..mkd.T 40 S R 3 W S 6 B T.
	Thence I run
	North bet.secs.31 and 36.
	Over mountainous land;through dense sage brush.
	Asc.
4.00	Top of spur,20 ft.above Tp.cor.,bears E.and W.
	Desc.
28.15	Road from Adam's ranch to Kanab,bears N.10° E.and S.30° W.

Emery Valley Guide Meridian,

through Tp.39 South, between Ranges 3 and 4 West,-Continued

Chains	
29.70	Wash, 15 lks. wide, 8 ft. deep, course S.40° W.
31.10	Wash, 12 lks. wide, 6 ft. deep, course SW.
38.90	Main wash, 20 lks. wide, 12 ft. deep, in hollow, 30 ft. below spur, course S.30° W. Asc.
	Difference between measurements of 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 limestone, 18x10x8 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.
40.80	Wash, 15 lks. wide, 5 ft. deep, course SE.
44.10	Wash, 10 lks. wide, 4 ft. deep, course SE.
52.50	Main wash, 50 lks. wide, 10 ft. deep, course S.30° E.; in hollow, course S.30° E.
	Asc.
56.00	Top of ridge, 40 ft. above hollow, bears N.20° E. and S.20° W.
	Desc.
74.00	Enter scattering timber, bears E. and W.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 6 lks. position of middle point, position of middle point,
	By 1st set, 79.97 chs.
	By 2nd set, 80.03 chs.; the mean of which is
80.00	Point for cor. falls in wash where the cor. would be carried away by the first flood therefore, at
79.50	On bank of wash I
	Set a sandstone, 18x6x7 ins., 12 ins. in the ground, for witness cor. to cor. of secs. 25, 30, 31, and 36, mkd. W C on NE face; with 5 notches on N. and 1 notch on S. edges; from which
	A cedar, 8 ins. dia., bears N.2° E., 196 lks. dist. mkd. T 39 S R 3 W S 30 B T.

Chains	
	A cedar,12 ins.dia.,bears S.0°55'E.,432 lks. dist..mkd.W C T 39 S R 3 W S 31 B T.
	A cedar,7 ins.dia.,bears S.89°35'W.,395 lks. dist..mkd.W C T 39 S R 4 W S 36 B T.
	A yellow pine,20 ins.dia.,bears N.51°10'W.,318 lks.dist.;mkd.WC T 39 S R 4 W S 25 B T.
	Land,mountainous .
	Soil,clay loam;2nd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,dense sage.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	North,bet.secs.25 and 30,from the point for sec.cor. Over mountainous land;through dense sage brush and scattering timber .
	Asc.
.60	Leave wash,course S.
	Asc.
2.00	Wash,15 lks.wide,4 ft.deep,course SW.
21.00	West bend in road from Adam's ranch to Kanab,bears N.5° E.and S.10°E.
	Difference between measurements of 40.00 chs.,by two sets of chainmen,is 4 lks.;position of middle point,
	By 1st set,39.98 chs.
	By 2nd set,40.02 chs.;the mean of which is
40.00	Set a sandstone,24x6x5 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which

Emery Valley Guide Meridian,

through Tp.39 South,between Ranges 3 and 4 West-Continued.

Chains	
	A cedar,5 ins.dia.,bears N.35° 30'E.,115 lks. dist..mkd.½ S 30 B T.
	A cedar,5 ins.dia.,bears N.24°W.,75 lks. dist..mkd.½ S 25 B T .
41.10	South edge of wash,150 lks.wide,12 ft.deep,course SW.
42.60	North edge of wash,course SE.
45.00	Wash,20 lks.wide,5 ft.deep,course SW.
50.00	Enter heavy timber,bears NW and SE.
61.00	Wash,15 lks.wide,8 ft.deep,course SW.
70.50	Top of ridge,150 ft.above wash,bears E.and W. Desc.
76.00	Leave heavy and enter scattering timber,bears NE and SW.
	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 quartzite stone,18x12x5 ins.,12 ins.in the ground, for cor.of secs.19,24,25,and 30,mkd.with 2 notches on S.and 4 notches on N.edges;from which
	A cedar,10 ins.dia.,bears N.31°15'E.,198 lks. dist..mkd.T 39 S R 3 W S 19 B T.
	A cedar,4 ins.dia.,bears S.58°25'E.,60 lks. dist..mkd.T 39 S R 3 W S 30 B T.
	A cedar,5 ins.dia.,bears S.44°20'W.,90 lks. dist..mkd.T 39 S R 4 W S 25 B T.
	A cedar,36 ins.dia.,bears N.61°40'W.,168 lks. dist..mkd.T 39 S R 4 W S 24 B T.
	Land,mountainous .
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Emery Valley Guide Meridian,

through Tp.39 South, between Ranges 3 and 4 West-Continued.

Chains	
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	August 11, 1908: At this cor. I set off 15° 14' N., 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° 23' N., which is the proper lat. nearly.
	North bet. secs. 19 and 24.
	Over mountainous land; through scattering timber and dense sage brush.
	Desc.
10.90	Road from Kanab to Podunk, bears N. 80° W. and S. 80° E.
11.20	Wash, 10 lks. wide, 4 ft. deep, in bottom of hollow, course S. 80° E.
	Asc.
16.00	Enter heavy timber, bears NW and SE.
38.50	Top of ridge, 150 ft. above hollow, bears NE and SW.
	Desc.
	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	Set a sandstone, 12x10x6 ins., 9 ins. in the ground, for ¼ sec. cor., mkd. ¼ on W. face; from which
	A pinon pine, 7 ins. dia., bears N. 66° 35' E., 15 lks. dist., mkd. ¼ S 19 B T.
	A cedar, 16 ins. dia., bears S. 38° 35' W., 70 lks. dist., mkd. ¼ S 24 B T.
49.50	Bottom of hollow, 50 ft. below ridge, course S. 60° W.
	Asc.
55.00	Top of ridge, 100 ft. above hollow, bears N. 60° E. and S. 60° W.

Emery Valley Guide Meridian,

through Tp.39 South, between Ranges 3 and 4 West,-Continued.

Chains	
	Desc.
67.00	Bottom of hollow, 150 ft. below ridge, course S.70° W.
	Asc.
74.20	Top of ridge, 160 ft. above hollow, bears E. and W.
	Desc.
79.60	Bottom of hollow, 140 ft. below ridge, course E.
	Asc.
	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	Set a sandstone, 24x12x5 ins., 18 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, mkd. with 3 notches on N., and S. edges; from which
	A pinon pine, 10 ins. dia., bears N.28° 10' E., 62 lks. dist., mkd. T 39 S R 3 W S 18 B T.
	A pinon pine, 12 ins. dia., bears S.15° 10' E., 104 lks. dist., mkd. T 39 S R 3 W S 19 B T.
	A pinon pine, 7 ins. dia., bears S.39° 30' W., 112 lks. dist., mkd. T 39 S R 4 W S 24 B T.
	A pinon pine, 6 ins. dia., bears N.62° 30' W., 142 lks. dist., mkd. T 39 S R 4 W S 13 B T.
	Land, mountainous.
	Soil, clay and gravelly loam; 2nd rate.
	Timber, cedar and pinon pine and yellow 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.

August 11, 1908.

Emery Valley Guide Meridian
through Tp.39 South,between Ranges 3 and 4 West-Continued.

Chains	
	August 12,1908:At 7 h 5 m a.m.,1.mt.,I set off 37° 24 'N., on the lat.arc;14° 58'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.
	Over mountainous land;through scattering timber and dense sage brush.
	Asc.
1.40	Top of spur,20 ft.above sec.cor.,bears N.80° W.and S.80° E.
	Desc.
3.00	Bottom of hollow,30 ft.below spur,course E. Asc.
14.50	Top of ridge,100 ft.above hollow,bears E.and W.Desc.
19.30	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
23.50	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.
	Differnece between measurements of 40.00 chs.,by two sets of chainmen,is 4 lks.;position of middle point,
	By 1st set,39.98 chs.
	By 2nd set,40.02 chs.;the mean of which is
40.00	Set a sandstone,18x10x3 ins.,12 ins.in the ground,for ¼ sec.cor.;mkd.¼ on W.face;from which
	A cedar,6 ins.dia.,bears S.33° 20'E.,150 lks. dist..mkd.¼ S 18 B T.
	A cedar,8 ins.dia.,bears S.50° 55'W.,30 lks. dist..mkd.¼ S 13 B T.
43.80	Bottom of hollow,60 ft.below ridge,course SE.
	Asc.
54.00	Top of ridge,40 ft.above hollow,bears N.70° E.and S.70° W.
	Desc.
60.70	Bottom of hollow,30 ft.below ridge,course S.70° E.
	Asc.
65.00	Top of ridge, 20 ft.above hollow,bears NW and SE.

Emery Valley Guide Meridian,

through Tp.39 South,between Ranges 3 and 4 West,./Continued.

Chains	Desc.
70.80	Begin more gradual descent,bears NW and SE.
77.85	Creek,3 lks.wide,2 ins.deep,in wash,50 lks.wide,25 ft. deep,in Bulrush hollow,50 ft.below ridge,course S.75° E.
	Asc.
	Difference between measurements of 80.00 chs.,by two sets of chainmen is 6 lks.;position of middle point,
	By 1st set 80.03 chs.
	By 2nd set 79.97 chs.;the mean of which is
80.00	Set a sandstone,24x9x5 ins.,18 ins.in the ground,for cor.of secs.7,12,13,and 18,mkd. 2 notches on N.and 4 notches on S.edges;from which
	A cedar,10 ins.dia.,bears N.32°35'E.,389 lks. dist..mkd.T 39 S R 3 W S 7 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 loam;2nd rate.
	Timber,cedar and pinon pine and yellow pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.

North ,bet.secs.7 and 12.

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

	Asc.
6.00	Enter heavy timber,bears NW and SE.
	Begin steep asc.,bears SW and SE.

Emery Valley Guide Meridian,
through Tp.39 South,between Ranges 3 and 4 West,-Continued.

Chains	
10.00	Top of ridge ,80 ft.aboce cor.,bears N.70°W.and S.70°E.
	Desc.
30.60	Bottom of hollow,30 ft.below ridge,course S.70°E.
	Asc.
35.00	Top of spur,30 ft.above hollow,bears E.and W.
	Desc..
39.50	Bottom of hollow,30 ft.below spur,course E.
	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	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W;face;from which
	A cedar,12 ins.dia.,bears N.31°10'E.,107 lks.dist..mkd.¼ S 7 B T.
	A pinon pine,10 ins.dia.,bears N.17°15'W.,89 lks.dist..mkd.¼ S 12 B T.
44.00	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
47.80	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
49.00	Top of spur,25 ft.above hollow,bears E.and W.
	Desc.
57.85	Bottom of hollow,30 ft.below ridge,course E.
	Asc.
64.50	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
72.50	Bottom of hollow,60 ft.below spur,course E.
	Asc.
78.50	Top of ridge,100 ft.above hollow,bears N.80°W.and S.80° E.
	Desc.
	Difference between measurements of 80.00 chs.,by two

Emery Valley Guide Meridian ,

Through Tp.39 South,between Ranges 3 and 4 West-Continued.

Chains	
	set 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
80.00	Set a sandstone,20x12x6 ins.,15 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 pinon pine,8 ins.dia.,bears N.34° 40'E.,66 lks.dist..mkd.T 39 S R 3 W S 6 B T.
	A pinon pine,8 ins.dia.,bears S.39° 25'E.,103 lks.dist..mkd.T 39 S R 3 W S 7 B T.
	A cedar,7 ins.dia.,bears S.25° 55'W.,68 lks. dist..mkd.T 39 S R 4 W S 12 B T.
	A pinon pine,14 ins.dia.,bears N.57° 40'W.,101 lks.dist..mkd.T 39 S R 4 W S 1 B T.
	Land,mountainous .
	Soil,clay and gravelly loam;2nd and 3rd rate.
	Timber,cedar and pinon pine and yellow 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.
	From this cor.Georgetown is plainly visible.A large house near the center of town bears N.51° 5'E.,about 9.00 miles distant.
	August 12,1908:At the noon hour the sky is overcast and solar observations are impossible.

North,bet.secs.1 and 6.

Over mountainous land;through heavy timber and dense undergrowth.

Desc.

Chains

5.30 Bottom of hollow,30 ft.below sec.cor.,course E.

Asc.

27.50 Top of ridge,100 ft. above hollow,bears N.75°W.and S. 75°E.

This ridge is a water shed between the head waters of the East fork of the Sevier river and Kanab Creek.

Desc.

34.60 Head of canon,400 ft.below ridge,course NE.

Asc.

37.70 Top of sharp clay ridge,100 ft.above canon,bears NE and SW.

Desc.

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

By 1st set,39.98 chs.

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

40.00 Set a sandstone,16x12x8 ins.,11 ins.in the ground,for ¼ sec.cor.mkd.¼ on W.face;from which

A cedar,10 ins.dia;bears N.85°30'E.,54 lks. dist..mkd.¼ S 6 B T.

A cedar,20 ins.dia.,bears N.76°W.,20 lks. dist..mkd.¼ S 1 B T.

Difference between measurements of 41.75 chs.,by two sets of chainmen is 2 lks.;position of middle point ,

By 1st set,41.74 chs.

By 2nd set 41.76 chs.;the mean of which is

41.75 Intersect N.bdy.of Tp.,86.03 chs.West of the cor.of Tps.38 and 39 S.,Rs.3 and 4 West,which is a sandstone, 10x9x8 ins.,above ground,firmly set ,and mkd.and witnessed as described by the surveyor general.

Set a limestone ,15x12x6 ins.,10 ins.in the ground for closing cor.of Tps.39 S.,Rs.3 and 4 W.,mkd.C C 39 S.,R. 3 W on E.,and 4 W on W.faces;with 6 grooves on S.,E.,and

chains

W.faces;from which

A cedar,8 ins.dia.,bears S.55°E.,37 lks.

dist..mkd.T 39 S R 3 W S 6 B T.

A cedar,10 ins.dia. ,bears S.1°W.,37 lks.

dist..mkd.T 39 S R 4 W S 1 B T.

Land,mountainous .

Soil,gravelly and clay;2nd rate.

Timber ,cedar and pinon pine and yellow pine.

Undergrowth,oak and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,41.75 chs.

Exceptionally difficult to survey,41.75 chs.

Note:I destroy all marks on the cor.of Tps.38 and 39 S.,Rs.3 and 4 W.,which pertain to Tps.39 S.,Rs.3 and 4 W.

August 12,1908.

General Description.

This bdy.passes over a series of ridges and hollows having a general southwesterly trend.There is an abundance of sage brush on the whole bdy.and considerable cedar and pinon pine in the northern part.

Leo A. Snow

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 Leo A. Snow, 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 Emery Valley Guide Meridian, through Tp. 39 South, between Ranges 3 and 4 West Salt Lake Base and Meridian, Utah. showing the respective capacities in which they acted:

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, Chainman ~~Moundman.~~

N. Henry Savage, Chainman ~~Moundman.~~

Rass Macfarlane, Moundman ~~Axman.~~

Samuel Brooks, Moundman

~~Grant Gregerson and Eldon Snow~~, *Axmen.*

James S. Gregerson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Leo A. Snow, United States Deputy Surveyor, in surveying all those parts or portions of the Emery Valley Guide Meridian, through Tp. 39 South, Between Ranges 3 and 4 West, of the Salt Lake Base and Meridian [illegible] ~~of the~~ ~~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.

Menzies Macfarlane, *Chainman.*

Reuben Stratton, *Chainman.*

Angus M. Woodbury, Chainman, ~~Moundman.~~

N. Henry Savage, Chainman. ~~Moundman.~~

Rass Macfarlane, Moundman ~~Axman.~~

Grant Gregerson, Axman. Samuel Brooks, Moundman. ~~Axman.~~

Eldon Snow, Axman. James S. Gregerson, *Flagman.*

Subscribed and sworn to before me this 28th day of September, 1908.

SEAL

Leo A. Snow

U.S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 14th day of May, 1908, 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 [illegible] Emery Valley Guide Meridian; through Tp. 39 South, between Ranges 3 and 4 West; Salt Lake Base and Meridian.

[illegible] 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.

Leo A. Snow
United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me this 8th day of April, 1909.

Thomas Hull
U. S. Surveyor-General
for Utah.

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 Emery Valley Guide Meridian through Township No. 39 South, between Ranges 3 and 4 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 [illegible], 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-359

FILED
APR 8 1909

M.

FIELD NOTES

N.E.B.

OF THE SURVEY OF THE

WEST AND NORTH BOUNDARIES

of

Township No. 39 South, Range No. 4 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, 190x

Survey commenced August 13, 1908, 190x

Survey completed August 18, 1908, 190xx

6—151

West, Max. 5-43-00
North, Max 7-60-19
13 23 19

BOOK A-359

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 "I" Tp.40 S., R. 8 W.

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BOOK A-359

INDEX DIAGRAM.

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

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

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainma*

..... *Chainma*

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

SEAL

.....

.....

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

..... *Moundma*

..... *Moundma*

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

SEAL

.....

.....

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

..... *Axma*

..... *Axma*

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

SEAL

.....

.....

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

..... *Flagma*

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

SEAL

.....

.....

Book M. sub. Hanson 28.

220A

high	low	Close.
1-79-52		2.16
1-79-78		14.96
1-79-84		5.32
1-79-90		18.04
1-79-86		14.00
75-12		12.02
1-79-54		7.27
3-00-20		.14
75-40		3.50
1-00-00		4.14
76-71		
1-46-56		1-01.55
19-38		
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1-06-58		
1-00-12		
15-47		
1-10-06		
25-88		
26-18		
77-94		
32-94		
17-78		

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177
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17

Test Boundary of T.39 S.,R.4 W.-

Chains

Survey commenced August 13,1908,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,on 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 established by observation on Polaris , I proceed as follows:.

At the cor.of Tps.39 and 40 S.,Rs.4 and 4½ W.,latitude 37° 22' 31"N.,longitude 112° 20'39"W.,I set off 37° 23'N., on the lat.arc;14° 36'N.,on the decl.arc;and at 4 h. 5 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 10h 02 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 in a wooden plug set in the ground,5000 chs.N.of the cor.

August 13,1908.

August 14,1908:At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 29'to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.;this

West Boundary of T.39 S.,R.4 W.-Continued.

Chains	
	mark falls 0.4 ins.east of the mark determined by the solar.
	At 7 h 5 m a.m.,l.m.t.,I set off 37° 23'N.,on the lat. arc;14° 25'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 7h 30 m a.m., is N.16° 14'W.,the angle thus determined gives the mag.decl.16° 14'E.
	From the cor.of Tps.39 and 40 S.,R.4 and 4½ W.,which is a porphyry stone,8x10x10 ins above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	Thence I run
	North,,bet.secs.31 and 36.
	Over mountainous land;through dense undergrowth;and scattering timber .
	Asc.
10.60	Top of spur,30 ft.above cor.,bears NE and SW.
	Desc.
23.70	Bottom of swale,20 ft.below spur,course W.
	Asc.
30.17	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
31.00	Enter maple grove,bears E.and W.

West bdy.of T.39 S.,R.4 W.-Continued.

Chains	
40.00	Bottom of hollow,25 ft.below ridge,course E.
	Set a sandstone,14x10x7 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.½ on W.face;from which
	A maple,6 ins.dia.,bears N.33°E.,34 lks. dist..mkd.¼ S 31 B T.
	A maple,5 ins.dia.,bears N.80°W.,28 lks. dist..mkd.¼ S 26 B T.
	Raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.
43.40	Leave maple timber and enter heavy yellow pine timber, bears E.and W.
43.70	Begin steep ascent over sandstone ledges,bears E.and W.
45.00	Leave yellow pine timber,bears E.and W.
67.30	Top of steep ascent,500 ft.above foot of sandstone ledges,bears E.and W.
	Asc.more gradually and leave ledges.
77.00	Top of ridge,30 ft.above top of ledges,bears E.and W.
	Desc.
80.00	Set a sandstone,24x12x8 ins.,18 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,gravelly and loam ;2nd and 3rd rate.
	Timber,cedar,pinon pine,and yellow pine,and maple.
	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.

North,bet.secs.25 and 30.

West Boundary of T.39 S.,R.4 W.-Continued.

Chains	
	Over mountainous land;through dense undergrowth,and scattering timber.
	Desc.
17.00	Bottom of hollow,200 ft.below sec.cor.,course E.
	Asc.
25.30	Top of spur,90 ft.above hollow,projects E.
	Desc.
40.00	Set a porphyry,stone,24x14x8 ins.,18 ins.in the ground, for ¼ sec.cor..,mkd..¼ on W.face;from which
	A yellow pine, 36 ins.dia.,bears S.5°E.,265 lks.dist..mkd.¼ S 30 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
41.00	Bottom of Slide canon,150 ft.below ridge,course S.30° E.
	Asc.along east side of Slide canon.
50.00	Begin steep ascent,bears N.20°W.and S.20°E.
74.50	Top of spur,75 ft.above canon,bears E.and W.
	Desc.
78.20	Bottom of hollow,60 ft.below spur,course W.
	Asc.
80.00	Set a sandstone,14x8x5 ins..,9 ins.in the ground,for cor.of secs.19,24,25,and 30,mkd.with 2 notches on S. and 4 notches on N.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,gravelly clay;3rd rate.
	Timber,cedar and yellow pine.
	Undergrowth,oak and maple.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 14,1908:At this cor.I set off 14°20'N.,on the decl.

West boundary of T.39 S.,R.4 W.-Continued.

Chains	
	arc;and at 0 h 5 m p.,.l.m.t.,observe the sun on the meridian the resulting lat.is 37° 24'N.,which is the proper lat.nearly.
	North,bet.secs.19 and 24.
	Over mountainous land;through dense undergrowth.
	Asc.
3.00	Top of ridge,20 ft.above sec.cor.,bears E.and W.
	Desc.
12.50	Bottom of east fork of Slide Canon,60 ft.below ridge, course S.15° W.
	Asc.
15.00	Enter scattering timber,bears E.and W.
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,14 ins.dia.,bears S.23° E.,103 lks.dist.,mkd.¼ S 19 B T.
	A pinon pine,15 ins.dia.,bears N.63° 15'W. 50 lks.dist.,mkd.¼ S 24 B T.
47.50	Top of divide ridge,800 ft.above canon,bears S.30° E. and N.30° W.
	Desc.
74.80	Bottom of canon,480 ft.below ridge,course S.30° E.
	Asc.
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;and 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.
	Undergrowth,oak ,maple,and buck brush.

West boundary of T.39 S.,R.4 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 14,1908.
	August 15,1908:At 7 h 4 m a.m.,l.m.t.,I set off 37° 25' N.on the lat.arc;14°07'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.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
5.50	Begin abrupt ascent over ledges,bears N.20° W.and S.20° E.
15.60	Top of ridge,200 ft.above sec.cor.,bears N.W.and SE.
	Leave ledges ,bears NW and SE.
	Desc.
25.50	Enter heavy yellow pine and aspen,bears E.and W.
27.50	Bottom of hollow,70 ft.below ridge,course E.
	Asc.
34.25	Leave heavy and enter scattering timber,bears E.and W.
40.00	Set a sandstone,16x8x4 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.
46.00	Top of spur,60 ft.above hollow,bears E.and W.
	Desc.
56.75	Bottom of hollow,80 ft.below spur,course E.

West bdy. of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
66.00	Top of spur,100 ft.above hollow,bears E.and W.
	Desc.
66.25	Enter scattering yellow pine timber,bears E.and W.
75.80	Bottom of canon,200 ft.below spur,course E.
	Asc.
77.50	Top of spur,50 ft.above canon,bears E.and W.
	Desc.
79.85	Bottom of hollow,60 ft.below spur,course E.
	Asc.
80.00	Set a quartzite stone,20x10x8 ins.,15 ins.in the ground, for cor.of secs.7,12,13,and 18,mkd.with 2 notches on N.and 4 notches on S.edges;from which
	A fir,14 ins.dia.,bears N.62° 5' W.,84 lks. dist..mkd.T 39 S R 4½ W.,S 12 B T.
	A fir,10 ins.dia.,bears S.68° 25'W.,79 lks. dist..mkd.T 39 S R 4½ 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,gravelly and clay ;3rd rate.
	Timber,cedar and pinon pine ,aspen and yellow pine and fir.
	Undergrowth,oak,service berry,buck brush,and larb.
	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.

North,bet.secs.7 and 12.

Mountainous land;through heavy timber and dense under-growth.

West boundary of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
.50	Top of spur,25 ft.above sec.cor.,bears E.and W.
	Desc.
4.20	Begin steep descent,bears E.and W.
10.00	Bottom of hollow,100 ft.below spur,course E.
	Asc.
17.00	Begin steep ascent,bears E.and W.
29.50	Top of spur,175 ft.above hollow,bears E.and W.
	Desc.abruptly.
36.30	Bottom of west fork of Meadow Canon,150 ft.below spur, course S.60°E.
	Asc.
40.00	Set a sandstone,16x8x8 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,24 ins.dia.,bears E.,62 lks. dist..mkd.¼ S 7 B T.
	An aspen,8 ins.dia.,bears S.3°35'W.,55 lks. dist..mkd.¼ S 12 B T.
44.50	Wash,20 lks.wide,10 ft.deep,course S.60°E.
45.50	Wash,25 lks.wide,12 ft.deep,course S.50°E.
	Asc.
58.00	Begin ascent of talus of cliffs,bears E.and W.
64.40	Foot of cliffs,bears E.and W.
	Asc.over porphyry cliffs .
73.74	Top of cliffs,800 ft.above canon bottom,bears E.and W.
	Asc.gradually.
80.00	Set a porphyry stone,16x12x10 ins.,11 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 red pine,16 ins.dia.,bears S.80°10'W.,40 lks.dist..mkd.T 39 S R 4½W S 12 B T.
	A red pine,12 ins.dia.,bears N.74°10'W.,34 lks dist..mkd. T 39 S R 4½ W S 1 B T.
	No other trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.

West Bdy. of T. 39 S., R. 4 W.- Continued.

Chains. Land mountainous.

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

Timber, yellow pine, red pine, fir, and aspen.

Undergrowth, oak, service berry, buck brush, and maple.

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 15, 1908: At the noon hour the sky is overcast and solar observations are impossible.

North bet.secs.1 and 6,

Over mountainous land; through heavy timber and scattering undergrowth. Desc.

40.00 Set a porphyry stone 14 x 10 x 5 ins., 9 ins.in the ground for ¼ sec.cor., mkd.¼ on W.face; from which

A yellow pine 36 ins.dia.bears N.69° 15'E. 59 lks. dist., mkd.¼ S 6 B T

A red pine, 5 ins.dia., bears S.68° 20'W. 30 lks. dist., mkd.¼ S 1 B T

Continue descent along east slope of ridge.

41.42 Set temp. cor.of Tps.38 and 39 S., Rs. 4 and 4½ W.

Note:
The permanent cor.was afterwards set at 43.00 chs.

Land, mountainous.

Soil, clay loam; 2nd rate.

Timber, cedar, pinon pine, yellow pine, red pine, and fir.

Undergrowth, oak and aspen.

Good grass for grazing.

Mountainous or heavily timbered land 41.42 chs. 43.00

Exceptionally difficult to survey 41.42 chs. 43.00

August 15, 1908.

North Bdy. of T. 39 S., R. 4 W.

Chains	
	August 16, 1908: At 7 h. 4 m.a.m.l.m.t.I set off 37° 27'N.on the lat.arc;13° 47'N.on the decl.arc; and determine a meridian with the solar at the cor.of Tps.38 and 39 S., Rs.3 and 4 W., which is a sandstone 8 x 6 x 5 ins.above ground, firmly set and mkd.and witnessed as described by the surveyor general. I re-mark the cor. for the cor.of T.38 S., Rs.3 and 4 W.only, and destroy the trees in the Tp.south of the line.
	Thence I run
	West along south bdy.sec.36,
	Over mountainous land; through dense undergrowth and scattering timber. Asc.
1.50	Top of ridge, 10 ft.above cor., bears N. and S. Desc.
16.50	Bottom of hollow, 30 ft.below ridge, course N. Asc.
21.30	Top of ridge,130 ft.above hollow,bears N. and S. Desc.
25.00	Bottom of hollow, 80 ft.below ridge, course N.20° E. Asc.
32.00	Top of steep ascent. bears N.20° E. and S.20° W. Asc.slowly.
40.00	Set a limestone 16 x 9 x 5 ins., 11 ins.in the ground for ¼ sec.cor., mkd.¼ on N.face; from which
	A cedar 8 ins.dia.bears N.70° W. 260 lks.dist.,mkd. ¼ S 36 B T
	No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.High N.of cor.
41.00	Top of ridge, 150 ft.above hollow,bears N.30° E. and S. 30° W. Desc.
53.00	Bottom of hollow, 130 ft.below ridge, course NE. Asc.
62.00	Top of ridge 280 ft.above hollow, bears NE. and SW. Desc.
67.00	Bottom of hollow,200 ft.below ridge, course N.20° W. Asc.
72.00	Top of spur, 50 ft.above hollow,bears N. and S. Desc.
78.60	Bottom of hollow, 60 ft.below spur, course N.40° E. Asc.

North Bdy. T. 39 S., R. 4 W.- Continued.

Chains	
80.00	Set a sandstone 18 x 10 x 6 ins., 12 ins.in the ground, for cor.of secs.35 and 36, mkd. with 1 notch on E. and 5 notches on W.edges; from which
	A cedar 10 ins.dia.bears N.30° E. 40 lks.dist. mkd.T 38 S R 4 W S 36 B T
	A cedar 8 ins.dia. bears N.5° W. 51 lks.dist. mkd.T 38 S R 4 W S 35 B T
	Land, mountainous.
	Soil, gravelly and clay; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, oak and buck brush.
	Mountainous land, or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.
	West along S.bdy.sec.35,
	Over mountainous land; through heavy timber and scattering undergrowth. Asc.
2.50	Top of ridge, 40 ft.above sec.cor., bears NE. and SW. Desc.
6.03	The closing cor.of Tp.39 S., Rs.3 and 4 W.
6.40	Bottom of hollow, 40 ft.below ridge, course NE. Asc.
8.00	Top of sharp clay ridge, 40 ft.above hollow, bears NE. and SW. Descend.
10.20	Bottom of hollow, 30 ft.below ridge, course NE. Asc.
26.00	Top of divide ridge, between Bulrush Canon and canon on north, 800 ft.above hollow, bears NW. and S.80° E. Desc.
39.50	Bottom of hollow, 200 ft.below ridge, course S. Asc.
40.00	Set a sandstone 14 x 12 x 4 ins., 9 ins.in the ground, for ¼ sec.cor., mkd.¼ on N.face; from which
	A pinon pine 7 ins.dia. bears N.79° W. 99 lks.dist. mkd.¼ S 35 B T
	A cedar 9 ins.dia.bears S.52° 30'E. 152 lks.dist.

North Bdy. of T.39 S., R. 4 W.- Continued.

Chains.	
	mkd. ¼ S 1 B T
40.30	Foot of sandstone ledge, 30 ft.high, bears N. and S.
45.20	Top of ridge, 200 ft.above hollow, bears N. and S. Desc.
55.00	Bottom of hollow, 60 ft.below ridge, course S. Asc.
59.10	Top of ridge, 200 ft.above hollow, bears N. and S. Desc.
78.50	Bottom of hollow, 30 ft.below ridge, course SE. Asc.
80.00	Set a sandstone 15 x 8 x 7 ins., 10 ins.in the ground, for cor.of secs.34 and 35, mkd.with 2 notches on E. and 4 notches on N.edges; from which
	A pinon pine, 10 ins.dia.bears N.62° 45'E. 62 lks. dist., mkd.T 38 S R 4 W S 35 B T
	A cedar 16 ins.dia.bears N.12° 50'W. 40 lks.dist. mkd.T 38 S R 4 W S 34 B T
	Land, mountainous.
	Soil, clay loam; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth oak, sage, service berry and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land 80.00 chs.
	Exceptionally difficult to survey, 80.00 chs.
	August 16, 1908: At the noon hour the sky is overcast and solar observations are impossible.

West on true line on S.bdy.sec.34,

	Over mountainous land; through heavy timber and scattering undergrowth.
	Asc.
3.90	Top of ridge, 80 ft.above sec.cor.,bears N. and S. Desc.
19.50	Bottom of hollow, 700 ft.below ridge, course SW. Asc.

North bdy.T,39 S.,R.4 W.-Continued.

Chains	
20.75	Top of ridge,30 ft.above hollow,bears NE and SW.
	Desc.
25.40	Bottom of canon,40 ft.below ridge,course S.
	Asc.
35.00	Top of ridge,200 ft.above canon,bears NW and SE.
	Desc.
38.90	Head of hollow,10 ft.below ridge,course SE.
	Asc.
40.00	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for ¼ sec.cor.,mkd.¼ on N.face;from which
	A pinon pine,7 ins.dia.,bears N.62° 30'W., 31 lks.dist..mkd.¼ S 34 B T.
	A pinon pine,14 ins.dia.,bears S.9° E.,28 lks.dist.,mkd.¼ S 2 B T.
45.00	Leave heavy and enter scattering timber ,bears NW and SE.
	Enter dense undergrowth,bears NW and SE.
65.00	Top of ridge,800 ft.above hollow,bears N. and S.
	Leave undergrowth and enter heavy timber ,bears N.and S.
	Desc.
79.00	Bottom of canon,500 ft.below ridge,course SW.
	Asc.
80.00	Set a sandstone,18x10x4 ins.,12 ins.in the ground,for cor.of secs.33 and 34,mkd.with 3 notches on E.and 3 notches on W.edges;from which
	A pinon pine,8 ins.dia.,bears N.48° E.,160 lks.dist..mkd.T 38 S R 4 W S 34 B T.
	A cedar,20 ins.dia.,bears N.3° W.,21 lks.dist..mkd.T 38 S R 4 W S 33 B T.
	Land,mountainous .
	Soil,clay and gravelly;2nd and 3rd rate.
	Timber,cedar and pinon pine.

North bdy.T.39 S.,R.4 W.-Continued.

Chains	
	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.
	August 16,1908.

	August 17,1908:At 7 h 4 m a.m.,l.m.t.;I set off 37° 27' N.,on the lat.arc;13° 28'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 33 and 34.
	Thence I run
	West,on a true line along S.bdy.sec.33.
	Over mountainous land;through heavy timber.
	Asc.
1.20	Top of ridge,20 ft.above sec.cor.;bears NE and SW.
	Desc.
7.10	Bottom of canon,60 ft.below ridge,course S.40°E.
	Asc.
10.00	Leave heavy and enter scattering timber,bears N and S.
	Enter dense undergrowth,bears N.and S.
28.00	Top of ridge,800 ft.above canon,bears N.and S.
	Desc.
40.00	Point 500 ft.below ridge.
	Set a sandstone,14x12x7 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,14 ins.dia.,bears N.40°15'E.,260 lks. dist..mkd.¼ S 33 B T.
	A cedar,5 ins.dia.,bears S.54°20'W.,81 lks. dist..mkd.¼ S 3 B T.
51.45	Wash,50 lks.wide,10 ft.deep,course S.,in bottom of hollow

North bdy.T.38 S.,R.4 W.-Continued.

Chains	
	100 ft.below ¼ sec.cor.,course S;
	Asc.
64.30	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
80.00	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for cor.of secs.32 and 33,mkd.with 4 notches on E.and 2 notches on W.edges;from which
	A red pine,18 ins.dia.,bears N.87°55'W.,346 lks.dist..mkd.T 38 S R 4 W S 32 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,pinon pine,and red 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.
	August 17,1908:At this cor.I set off 13°22'N.,on the decl.arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°27'N.,which is the proper lat.nearly.
	Exceptionally difficuly to survey,80.00 chs.

West,on a true line along south bdy.sec.32 .

Over mountainous land;through dense undergrowth and scattering timber .

	Desc.
3.00	Wash,30 lks.wide,3 ft.deep.,in hollow,50 ft.below sec.cor . course SE.
	Asc.
6.00	Road,bears NW and SE.

North bdy.of T.39 S.,R.4 W.-Continued.

Chains	
10.60	Begin steep ascent,bears N.60° W.and S.60° E.
16.30	Top of ridge,80 ft.above hollow,bears N.and S.
	Desc.
20.30	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
21.90	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
25.30	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
29.10	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
40.00	Set a sandstone,20x10x7 ins.,15 ins.in the ground,for
	¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,40 ins.dia. ,bears N.5° 55'E.,
	435 lks.dist..mkd.¼ S 32 B T.
	A red pine,42 ins.dia.,bears S.17° 45'E.,416
	lks.dist..mkd.¼ S 4 B T.
41.00	Bottom of hollow,20 ft.below ridge,course N.
	Asc.
46.60	Top of ridge,,40 ft.above hollow,bears N.and S.
	Desc.
53.50	Bottom of hollow,40 ft.below ridge,course N.20° E.
	Asc.
60.00	Top of ridge,150 ft.above hollow,bears N.30° E.and S.30°
	W.
66.50	Bottom of hollow,50 ft.below ridge,course N.
	Asc.
80.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Set a sandstone,18x9x5 ins.,12 ins.in the ground,for
	cor.of secs.31 and 32,mkd.with 5 notches on E.and 1
	notch on W.edges;from which
	A red pine,18 ins.dia.,bears N.81° E.,227
	lks.dist..mkd.T 38 S R 4 W S 32 B T.
	A spruce ,18 ins.dia.,bears N.75° 30'W.,75 lks.

North bdy.of T.38 S.,R.4 W.-Continued.

Chains	
	dist..mkd.T 38 S R 4 W S 31 B T.
	Land,mountainous .
	Soil,clay and gravelly;3rd rate.
	Timber,cedar,pinon pine,red pine,spruce,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.
	August 17,1908.

	August 18,1908:At 7 h 4 m a.m.,l.m.t.,I set off 37° 27' N. on the lat.arc;13° 9' N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.31 and 32.
	Thence I run
	West,on a true line along south bdy.of sec.31 .
	Over mountainous land;through heavy timber and scattering undergrowth.
	Desc.
1.50	Bottom of hollow,40 ft.below sec.cor.,course N.
	Asc.
4.50	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
8.00	Bottom of hollow,40 ft.below ridge,course N.
	Asc.
19.50	Begin abrupt ascent over series of pink cliffs,bears N.20° E.and S.20° W.
	Leave timber,and undergrowth,bears N.20° E.and S.20° W.
26.70	Top of pink cliffs,500 ft.above foot of cliffs,bears N.20° E.and S.20° W.
	Enter heavy pine timber,bears N.20° E.and S.20° W.

North bdy.of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.more gradually.
31.00	Top of spur,1000 ft.above hollow,bears N.20° E.and S.20° W.
	Desc.
37.00	Head of swale,30 ft.below ridge,course S.70° W.
	Asc.
40.00	Set a porphyry stone,14x14x8 ins.,9 ins.in the ground,for ¼ sec.cor.,mkd.¼ on N.face;from which
	A red pine,16 ins.dia.,bears N.47° E.,10 lks. dist..mkd.¼ S 31 B T.
	An aspen,6 ins.dia.,bears S.7° 50'E.,60 lks. dist .,mkd.¼ S 5 B T.
80.00	Set a porphyry stone,16x12x7 ins.,11 ins.in the ground, for 1/16 sec.cor.,mkd.1/16 on N.face;from which
	A spruce,12 ins.dia.,bears N.55° E.,39 lks. dist..mkd. 1/16,S 31 B T.
	A spruce,5 ins.dia.,bears S.61° W.,28 lks. dist..mkd 1/16 S 5 B T.
89.60	Top of ridge,800 ft.above hollow,bears N.30° E.and S.30° W.
	Desc.
112.00	Bottom of hollow,500 ft.below ridge,course N.30° E.
	Asc.
120.00	Set a sandstone,16x10x4 ins.,11 ins.in the ground,for 1/16 sec.cor.,mkd.1/16 on N.face;from which
	A spruce,4 ins.dia.,bears N.44° 55'W.,11 lks. dist..mkd.1/16 S 31 B T.
	A spruce,7 ins.dia.,bears S.40° 25'W.,18 lks. dist..mkd. 1/16 S 6 B T.
135.00	Top of ridge,500 ft.above hollow,bears N.and S.
	Desc.
150.00	Bottom of hollow,100 ft.below ridge,course N.80° W.
	Continue descent.
160.00	Set a sandstone,16x12x4 ins.,11 ins.in the ground,for

North bdy.of T.39 S.,R.4 W.-Continued.

Chains	
	1/16 sec.cor.,mkd.1 /16 on N.face;from which
	A pine,7 ins.dia.,bears N.67° 20'W.,20 lks. dist..mkd.1/16 S 31 B T.
	A pine,8 ins.dia.,bears S.41° 30'W.,73 lks. dist..mkd. 1/16 S 6 B T.
	August 18,1908At this cor.I set off 13° 4'N.,on the decl. arc.and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 27'N.,which is the proper lat.nearly.
186.00	Creek,2 lks.wide,3 ins.deep,in bottom of canon,1000 ft.b below ridge,course N.
	Asc.
187.30	Road,bears N.and S.
200.00	Set a porphyry stone,16x10x7 ins.,11 ins.in the ground, for 1/16 sec.cor..,mkd 1/16 on N.face; from which
	A red pine,10 ins.dia.,bears N.41° 2½'W.,29 lks.dist..mkd.1/16 S 31 B T.
	A red pine,14 ins.dia.,bears S. 28° E.,50 lks. dist..mkd .1/16 S 6 B T.
200.50	Top of ridge,350 ft.above canon,bears N.and S.
	Desc.
210.00	Bottom of hollow,100 ft.below ridge,course NE .
	Asc.
220.19	Intersect W.bdy.of Tp.,1.58 chs.North of the temp.cor. of Tps.38 and 39 S.,Rs.4 and 4½ W.;which makes it 43.00 chs.North of the cor.of secs.1,6,7,and 12.
	Set a porphyry stone,18x12x4 ins.,12 ins.in the ground, for cor.of Tps.38 and 39 S.,Rs.4 and 4½ W.,mkd.38 S.,on NE ;4 W.on SE;39 S on SW;and 4½ W on NW faces;with 6 notches on each edge;from which
	A spruce,8 ins.dia.,bears N.41° 50'E.,81 lks. dist..mkd.T 38 S R 4 W S 31 B T.
	A red pine,14 ins.dia.,bears S.23° 30'E.,65 lks.dist..mkd.T 39 S R 4 W S 6 B T.

North bdy. of T. 39 S., R. 4 W.-Continued.

Chains

A spruce, 6 ins. dia., bears S. 64° 30' W., 76 lks. dist., mkd. T 39 S R 4½ W S 1 B T.

A spruce, 14 ins. dia., bears N. 44° 50' W., 87 lks. dist., mkd. T 38 S R 4½ W S 36 B T.

Land, mountainous.

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

Timber, spruce, red pine, fir, yellow pine, aspen, and cedar.

Undergrowth, oak, service berry, and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land, 220.19 chs.

Exceptionally difficult to survey, 220.19 chs.

August 18, 1908.

BOUNDARIES OF T. 39 S., R. 4 W.

Latitudes, departures, and closing errors.

Line designated	Course	dist-ance chs.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
W. bdy. T. 39 S., R. 4 W.	North	443.00	443.00			
N. bdy. T. 39 S., R. 4 W.	East	534.16			534.16	
E. bdy. T. 39 S., R. 4 W.	South	441.75		441.75		
S. bdy. T. 39 S., R. 4 W.	N. 89° 58 W.	320.00	.19			320.00
S. bdy. T. 39 S., R. 4 W.	S. 89° 12 W.	80.46		1.12		80.45
S. bdy. T. 39 S., R. 4 W.	N. 89° 56 W.	135.00	.16			135.00
Convergency					.55	
			443.35	442.87	534.71	535.45
			442.87			534.71
Error in lat.			.48			
Error in dep.						.74

GENERAL DESCRIPTION.

For general description see notes of subdivision of T. 39 S., R. 4 W.

August 18, 1908.

Leo A. Snow
U. S. Deputy Surveyor.

BOOK A-359

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-359

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 "O" 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, 1909

The foregoing field notes of the survey of the West and North Boundaries of Township No. 39 South, Range No. 4 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 Kell
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-359

FILED
APR 8 1909

N.

FIELD NOTES

Retracement
OF THE ~~SURVEY~~ OF THE

SOUTH BOUNDARY

of

Township No.39 South,Range No.4 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., ~~190~~x

Retracement
~~*Survey*~~ *commenced* August 19,1908., x~~190~~

Retracement
~~*Survey*~~ *completed* August 19,1908., x~~190~~

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2-55-46

BOOK A-359

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 "A" Tp. 36 S., R. 11 W.

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BOOK A-359

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Meanders Page

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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 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 S.bdy.of T.39 S.,R.4 W.

Chains	
	Survey commenced August 19,1908,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,on June 8, 1908.
	At the cor.of secs.4,5,32,and 33,on S.bdy.of Tp.,which is a sandstone,5x12x5 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general, latitude 37°22'31"N.,longitude 112°17'44"W.,I set off 37°23'N.,on the lat.arc.12°50'N.,on the decl.arc;and at 7 h 4 m a.m.,l.m.t.,I determine a meridian with the solar,x
	Note:For complete test of instrument see notes of West bdy.of T.39 S.,R.4 W.
	Note:Before commencing the subdivision of this Tp.I proceed to retrace part of the south bdy.of Tp.
	Thence I run
	N.89°58'W.,on a retracement line bet.secs.5 and 32.
40.06	Fall 58 lks.N.of the ¼ sec.cor..bet.secs.5 and 32,which is a sandstone,4x10x8 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor.
80.46	Fall 117 lks.N.of the cor.of secs.5,6,31,and 32,which is a sandstone,4x12x8 ins.,above ground,firmly set,and mkd. and witnessed as described by the surveyor general.
	The course of this line is therefore S.89°12'W.,80.46 chs.
	Note:No change in temporarily from original notes.

Retracement of South bdy.of T.39 S.,R.4 W.-Continued.

Chains	
	N.89° 58'W.,on a retracement line bet.secs.6 and 31.
39.93	Fall 2 lks.S.of the ¼ sec.cor.,bet.secs.6 and 31,which is a porphyry stone,5x12x8 ins.,above ground,firmly set, and mkd.and witnessed as described by the surveyor general.
135.00	Fall 48 lks. S.of the cor.of Tps.39 and 40 S.,Rs.4 and 4½ W.,heretofore described.
	The course of this line is therefore N.89°56'W.,135.00 chs.
	No change in topography from original notes.
	August 19,1908:At this cor.I set off12°44'N.,on the decl.arc;and at 0 h 4 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 .

August 19,1908.

Leo A. Snow

U.S.Deputy Surveyor .

BOOK A-359

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 "T", Tp. 40 S., R. 10 W.

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

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

SEAL

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BOOK A-359

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 "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, 1909

The foregoing field notes of the ~~survey~~ of retracement of the South Boundary of Township No. 39 South, Range No. 4 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~~ retracements they describe, are hereby approved.

Thomas Kearns

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-359

FILED
APR 8 1909

O.

FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 39 South, Range No. 4 West,

Of the Salt Lake Base and *Meridian,*

STATE OF UATH

AS SURVEYED BY

Leo A. Snow, *United States Deputy Surveyor,*

Under his Contract No. 304, *dated* May 14, 1908. ~~x190~~

Survey commenced August 19, 1908. ~~x190x~~

Survey completed September 5, 1908. ~~x190~~

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Max. 58-75-51
Int. 1-79-76
Min. 13-00
Clos. 33-31

60

BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Menzies Macfarlane	Chainman
Reuben Stratton	Chainman
Angus M.Woodbury	Moundman
N.Henry Savage	Moundman
Rass Macfarlance	Axman
Samuel Brooks	Axman
Grant Gregerson	Flagman

For preliminary oaths of assistants see book "C" Tp. 36 S., R. 11 W.

BOOK A-359

INDEX DIAGRAM.

Township 39 South, *Range* 4 West

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Meanders Page

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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 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 corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey o .....

....., *Axman*

....., *Axman*

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

.....

SEAL

.....

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

....., *Flagman*

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

.....

SEAL

.....

Subdivision of T.39 S.,R.4 W.-C[illegible]

Chains

Survey commenced August 19,1908,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,on June 8, 1908.

T examine the adjustments of the transit,and correct the level and collimation errors;then,to test the solar apparatus by comparings 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:

At the cor.of secs.1.2.35,and 36,on S.bdy.of Tp., lattitude 37° 22'31"N.,longitude 112° 14'29"W.I set off 37° 23'N.,on the lat.arc;12° 41'N,,on the decl.arc;and at 5 h 4 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 cor.

At 9 h 39 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 in a wooden plug set in the ground,5.00 chs.N.of the cor.

August 19,1908.

August 20,1908:At 6 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris 1° 29'to the east and mark a point in the meridian thus determined by cutting a small

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.32 ins.east of the mark determined by the solar.
	At 7 h 3 m a.m.,l.m.t.,I set off 37°23'N.,on the lat. arc;12°30'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 0.36 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 concluded that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 7 h 30 m a.m., is N.16°10'W.,the angle thus determined gives the mag. decl.16°10'E.
	——— ———
	Begin at the cor.of secs.1,2,35,and 36,on S.bdy.of Tp., which is a sandstone,6x18x3 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	Thence I run
	N.0°1'W.bet.secs.35 and 36.
	Over mountainous land;through dense undergrowth.
	Desc.
6.15	Wash,50 lks.wide,12 ft.deep,in bottom of canon,100 ft. below sec.cor.,course SE.
	Asc.
10.95	Begin steep ascent,bears SE and NW.
	Enter scattering timber,bears NW and SE.
22.00	Top of ridge,250 ft.above canon,bears E.and W.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
26.15	Bottom of hollow,150 ft.below ridge,course E. Asc.abruptly.
36.95	Top of ridge,200 ft.above hollow,bears E.and W. Desc.
39.80	Head of hollow,40 ft.below ridge,course W. Asc.
40.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for ¼ sec.cor..,mkd.¼ on W.face;from which A pinon pine,8 ins.dia.,bears S.19°45'E.,12 lks.dist..mkd.¼ S 36 B T. A pinon pine,12 dia.,bears N.71°45'W.,32 lks. dist..mkd.¼ S 35 B T.
45.00	Top of spur,40 ft.above hollow,bears E.and W. Desc.
60.45	Bottom of hollow,250 ft.below spur,course W. Asc.
69.45	Top of spur,100 ft.above hollow,bears NE and SW. Desc.
79.50	Bottom of hollow,50 ft.below ridge,course W. Asc.
80.00	Set a sandstone,24x7x5 ins.,18 ins.in the ground,for cor.of secs.25,26,35,and 36,mkd.with 1 notch on S.,and E. edges;from which A pinon pine,10 ins.dia.,bears N.8°20'E.,38 lks.dist..mkd.T 39 S R 4 W S 25 B T. A cedar,16 ins.dia.,bears N.72°E.,45 lks. dist..mkd.T 39 S R 4 W S 36 B.T. A pinon pine,8 ins.dia.,bears S.12°15'W.,39 lks.dist..mkd.T 39 S R 4 W S 35 B T. A cedar,7 ins.dia.,bears N.65°50'W.,72 lks. dist..mkd.T 39 S R 4 W S 26 B T.

Land,mountainous.

Soil,clay loam and gravellt;2nd and 3rd rate.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Timber,cedar and pinon pine.
	Undergrowth,oak 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.
	S.89°58'E.,on a random line bet.secs.25 and 36.
40.00	Set temp.¼ sec.cor.
79.94	Intersect E.bdy.of Tp.(Emery Valley Guide Meridian), 12 lks.S.ofpoint for cor.secs.25,30,31,and 36,which point is 50 lks.North of witness cor.to cor.secs.25,30,31,and 36
	Thence I run
	S.89°57'W.,on a true line bet.secs.25 and 36.
	Over mountainous land;through dense sage brush.
	Asc.
.50	Leave wash,course S.
18.25	Enter heavy cedar and pinon pine timber,bears N.and S.
24.50	Top of ridge,80 ft.above wash,bears N.and S.
	Desc.
27.20	Bottom of hollow,50 ft.below ridge,course S.20°W.
	Asc.
30.50	Top of spur,20 ft.above hollow,bears NW and SE.
	Desc.
39.97	Set a sandstone,18x12x4 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,5 ins.dia ,bears N.86°20'E.,110 lks. dist..mkd.¼ S 25 B T.
	A pinon pine,14 ins.dia.,bears S.55°45'W.,70 lks dist..mkd.¼ S 36 B T.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
40.30	Bottom of hollow,30 ft.below spur,course SE.
	Asc.
45.00	Begin steep asc,bears N.30°E.and S.30°W.
57.00	Top of clay ridge,350 ft.above hollow,bears N.30°E.and S.30°W.
	Desc.
79.94	The cor.of secs.25,26,35,and 36.
	Land,mountainous .
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine,.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.94 chs.
	Exceptionally difficult to survey,79.94 chs.
	August 20,1908:At the noon hour the sky is overcast and solar observations are impossible.

N.0°1'W.,bet.secs.25 and 26.

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

	Asc.
.20	Top of ridge,10 ft.above cor.,bears E.and W.
	Desc.
8.00	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
22.90	Top of ridge,90 ft.above hollow,bears E.and W.
	Desc.
36.00	Bottom of hollow,30 ft.below ridge,course W.
	Asc.
38.20	Top of ridge,30 ft.above hollow,bears E.and W.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
40.00	Set a sandstone,20x12x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which A cedar,6 ins.dia.,bears N.80° E.,74 lks. dist..mkd.¼ S 25 B T. A cedar,6 ins.dia.,bears N.62° 10'W.,67 lks. dist..mkd.¼ S 26 B T.
40.40	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
52.70	Top of ridge,200 ft.above hollow,bears E.and W.
	Desc.
64.60	Bottom of hollow,50 ft.below ridge,course W.
	Asc.
70.00	Top of ridge,50 ft.above hollow,bearz E.and W.
	Desc.
80.00	Set a sandstone,15x12x6 ins.,10 ins.in the ground,for the cor.of secs.23,24,25,and 26,mkd.with 2 notches on S. and 1 notch on E.edges;from which A pinon pine,12 ins.dia.,bears N.32° E.,58 lks. dist..mkd.T 39 S R 4 W S 24 B T. A pinon pine,12 ins.dia.,bears S.59° E.,22 lks. dist..mkd.T 39 S R 4 W S 25 B T. A pinon pine,12 ins.dia.,bears S.19° 45'W.,60 lks.dist..mkd.T 39 S R 4 W S 26 B T. A cedar,15 ins.dia.,bears N.9° 20'W.,74 lks. dist..mkd.T 39 S R 4 W S 23 B T. Land,mountainous. Soil,clay loam;2nd 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.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	N.89° 57'E.,on a random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
79.80	Intersect E.bdy.of Tp.(Emery Valley Guide Meridian), 16 lks.S.of the cor.of secs.19,24,25,and 30,heretofore described.
	Thence run
	S.89° 50'W.,on a true line bet.secs.24 and 25.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
15.30	Wash,20 lks.wide,5 ft.deep,in hollow,40 ft.below cor., course S.
	Asc.
25.20	Leave heavy and enter scattering timber,bears N.and S.
33.50	Leave scattering and enter heavy timber,bears N.and S.
34.00	Begin abrupt ascent,bears NE and SW.
39.90	Set a limestone,18x10x3 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,14 ins.dia.,bears N.26° E.,71 lks. dist..mkd.¼ S 24 B T.
	A cedar,6 ins.dia.,bears S.72° 20'E.,32 lks. dist..mkd.¼ S 25 B T.
41.00	Top of abrupt ascent,bears NE and SW.
	Continue asc.
67.00	Top of ridge,500 ft.above hollow,bears N.and S.
	Desc.
79.80	The cor.of secs.23,24,25,and 26.
	Land,mountainous.
	Soil,clay loam and gravelly;2nd and 3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	with dense undergrowth,79.80 chs.
	Exceptionally difficult to survey,79.80 chs.
	August 20,1908.
	August 21,1908:At 7h 3m a.m.,l.m.t.,I set off 37°24'N., on the lat.arc;12°10'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 timber and dense undergrowth.
	Desc.
15.80	Leave timber,bears NE and NW.
40.00	Set a sandstone,15x10x4 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,24 ins.dia.,bears N.75°E.,194 lks.
	dist..mkd.¼ S 24 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high, W.of cor.
42.30	South edge of pond,bears N.70°E.and S.70°W.
48.00	North edge of pond.bears N.70°E.and S.70°W.
	This pond extends about 10.00 chs.east and west ;it is fed only by snow and rain and goes nearly dry in late summer. Asc.
56.00	Enter heavy timber,bears E.and W.
63.00	Top of ridge,150 ft.above pond,bears NW and SE.
	Desc.
70.00	Bottom of hollow,100 ft.below ridge,course SE.
	Asc.
80.00	Set a red sandstone,16x12x6 ins.,11 ins.in the ground,

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	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,16 ins.dia.,bears N.37° 8'E.317 lks. dist..mkd.T 39 S R 4 W S 13 B T.
	A cedar,10 ins.dia.,bears S.71° 30'E.,473 lks. dist..mkd.T 39 S R 4 W S 24 B T.
	A cedar,5 ins.dia. ,bears S.8° 50'W.,110 lks.dist..mkd. T 39 S R 4 W S 23 B T.
	A cedar,8 ins.dia.,bears N.34° 8'W.,392 lks. dist..mkd.T 39 S R 4 W S 14 B T.
	Land,mountainous .
	Soil,clay loam and gravelly;2nd and 3rd rate.
	Timber,cedar and pinon pine.
	Good grass for grazing.
	Undergrowth,sage brush.
	Mountainous or heavily timbered land,or land covered 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.
79.76	Intersect E.bdy.of TP.(Emery Valley Guide Meridian), 35 lks.N.of the cor.of secs.13,18,19,and 24,heretofore described.
	Thence I run
	N.89° 55'W.,on a true line bet.secs.13 and 24.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
3.00	Top of ridge,150 ft.above cor.,bears N.and S.
	Desc.
12.20	Wash,30 lks.wide,8 ft.deep,course S.30°W.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
13.30	Leave heavy and enter scattering timber,bears N.and S.
25.95	Wash,20 lks.wide,6 ft.deep,course S.30° W.
32.55	Wash,35 lks.wide,10 ft.deep,course S.
37.00	Enter heavy timber,bears N.and S.
39.88	Set a sandstone,16x9x5 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.½ on N.face;from which
	A cedar,14 ins.dia.,bears N.64° 30'W.,83 lks. dist..mkd.¼ S 13 B T.
	A cedar,6 ins.dia.,bears S.16° 15'E.,74 lks. dist..mkd.½ S 24 B T.
	August 21,1908:At this cor.I set off 12° 05'N.,on the decl.arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 25'N.,which is the proper lat.nearly.
45.70	Road from Kanab to Podunk,bears N.20° W.and S.20° E.
48.00	Wash,50 ft.wide,5 ft.deep,in bottom of hollow,200 ft. below ridge,course SE.
	Asc.
57.10	East side of wash,300 lks.wide,4 ft.deep,course SE.
72.00	Top of spur,40 ft.above hollow,bears N.30° W.and S.30° E.
	Desc.
75.00	Leave heavy and enter scattering timber,bears N.and S.
79.76	The cor.of secs.13,14,23,and 24.
	Land,mountainous.
	Soil,clay loam and gravelly;2nd and 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,79.76 chs.

N.0° 1'W.,bet.secs.13 and 14.

Subdivision of T.38 S.,R.4 W.-Continued.

Chains	
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
14.50	Enter heavy timber,bears E.and W.
20.75	Top of ridge,100 ft.above cor.,bears NW and SE.
	Desc.
27.35	Wash,10 lks.wide,5 ft.deep,course SE.
32.35	Wash,40 lks.wide,6 ft.deep,in hollow,100 ft.below ridge, course E.about 6.00 chs.,thence S.30° E.
	Asc.
40.00	Set a limestone,20x12x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,16 ins.dia.,bears S.85° 40'E.,150 lks.dist.,mkd.¼ S 13 B T.
	A cedar ,12 ins.dia.,bears N.61° 30'W.,38 lks. dist..mkd.¼ S 14 B T.
40.50	Road from Kanab to Podunk,bears N.20° W.and S.20° E.
43.90	Wash,20 lks.wide,4 ft.deep,in hollow,course S.30° W.
	Asc.
55.60	Wash,10 lks.wide,6 ft.deep,course S.30° W.
64.20	Fence,bears N.15° E.and S.15° W.
	Enter enclosure claimed by Frank Hamling,called (Oaks)
67.50	Center of spring or bog of about 50 lks.radius and a small stream flows in a southwesterly direction.
68.50	Fence,bears N.50° E.and S.55° W.
	Leave enclosure.
70.00	Top of spur,50 ft.above spring,bears NE and SW.
	Desc.
75.00	Enter heavy timber,bears E.and W.
76.00	Enter bottom of hollow,50 ft.below spur,course SW.
	Asc.
80.00	Set a sandstone,20x9x8 ins.,15 ins.in the ground,for cor.of secs.11,12,13,and 14,mkd.with 4 notches on S.and on E.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains 1 notch on E.edges;from which

A cedar,8 ins.dia.,bears N.63° 10'E.,56 lks.

dist..mkd.T 39 S R 4 W S 12 B T.

A cedar,8 ins.dia.,bears S.68° 35'E.,59 lks.

dist..mkd.T 39 S R 4 W S 13 B T.

A cedar,6 ins.dia.,bears S.60° 30'W.,122 lks.

dist..mkd.T 39 S R 4 W S 14 B T.

A cedar,6 ins.dia.,bears N.42° 05'W.,135 lks.

dist..mkd.T 39 S R 4 W S 11 B T.

Land,mountainous.

Soil,clay and gravelly loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush,and oak brush 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 21,1908.

August 22,1908:At 7 h 3 m a.m.,l.m.t.,I set off 37° 26'N., on the lat.arc;11° 50'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° 55'E.,on a random line bet.secs.12 and 13.

40.00 Set temp.¼ sec.cor.

78.80 Intersect E.bdy.of Tp.,(Emery Valley Guide Meridian), 18 lks.S.of the cor.of secs.7,12,13,and 18,heretofore described.

Thence I run

West,on a true line bet.secs.12 and 13.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
4.75	Foot of descent,50 ft.below sec.cor.,bears NW and S.50° E.
	Enter bottom of Bulrush Hollow.
9.90	Bulrush Creek,3 lks.wide;2 ins.deep;course S.80° E.
14.10	Leave Bulrush hollow,N.80° W.and S.80° E.
	Asc.
18.80	Begin steep ascent,bears NW and SE.
25.90	Top of ridge,100 ft.above hollow,bears NE and SW.
	Desc.
32.00	Head of hollow,25 ft.below top of ridge,course NE.
	Asc.
39.90	Set a sandstone,14x10x8 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,16 ins.dia.,bears N.70° W.,62 lks. dist..mkd.¼ S 12 B T.
	A cedar,12 ins.dia.,bears S.38° 15' W.,32 lks. dist..mkd.¼ S 13 B T.
62.00	Top of ridge,150 ft.above hollow,bears N.60° W.and SE.
	Desc.
62.25	Enter heavy timber,bears N.60° W.and SE.
70.00	Bottom of hollow.30 ft.below ridge,course SW.
	Asc.
72.00	Top of spur,50 ft.above hollow,bears N.and S.
	Desc.
79.80	The cor.of secs.11,12,13,and 14.:50 ft.below spur.
	Land,mountainous.
	Soil,clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak and sage brush.
	Good grass for grazing.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.80 chs.
	Exceptionally difficult to survey,79.80 chs.
	N00°1'W.,bet.secs.11 and 12.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
6.00	Top of ridge 140 ft.above cor.,bears N.80°W.and S.80°E.
	Des.
6.25	Leave heavy and enter scattering timber,bears NW and SE.
12.60	Enter heavy timber,bears E.and W.
15.70	Bottom of hollow,40 ft.below ridge,course E.
	Asc.
17.50	Top of spur,30 ft.above hollow,bears E.and W.
	Desc.
30.40	Bottom of swale,30 ft.below spur,course E.
	Asc.
36.00	Top of spur,30 ft.above swale,bears E.and W.
	Des.
38.20	Bottom of hollow,40 ft.below spur,course S.70°E.
	Asc.
40.00	Set a sandstone,14x12x4 ins.,9 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which
	A cedar,12 ins.dia.,bears N.20°10'E.,43 lks. dist..mkd.¼ S 12 B T.
	A pinon pine,14 ins.dia.,bears N.87°30'W.,3 lks.dist..mkd.¼ S 11 B T.
41.80	Top of spur,40 ft.above hollow,bears E.and W.
	Desc.
49.60	Foot of steep descent,bears N.40°W.and S.30°E.
58.20	Wash,4 ft.deep,30 lks.wide,in bottom of hollow,150 ft. below spur,course S. 30°E.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
59.00	Leave heavy and enter scattering timber,bears E.and W.
59.80	Asc.abruptly,bears N.30°W.and S.30°E.
62.00	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.
79.00	Bottom of hollow,30 ft.below ridge,course S.40°E.
	Asc.
80.00	Set a sandstone,18x10x6 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;andraiseha mound of stone,2 ft.base, 1½ ft.high,W.of cor.
	Land,mountainous.
	Soil,clay loam;2nd 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.
	August 22,1908:At this cor.I set off 11°45'N.,on the decl arc;and at 0 h 3 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37°27'N.,which is the proper lat.nearly.

	East,on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.
79.84	Intersect E.bdy.of Tp.,(Emery Valley Guide Meridian), 5 lks.N.of the cor.of secs.1,6,7,and 12,heretofore described.
	Thence I run
	N.89°58'W.,on a true line bet.secs.1 and 12.
	Over mountainous land;through dense undergrowth and

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	scattering timber.
	Asc.
4.80	Top of ridge,100 ft.above cor.,bears N.and S.
	Desc.
27.80	Enter heavy timber,bears N.and S.
30.70	Bottom of hollow,350 ft.below ridge,course S.
	Asc.
39.92	Set a sandstone,14x12x5 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,3 ins.dia.,bears N.35° 35'E.,57 lks.dist..mkd.¼ S 1 B T.
	A cedar,10 ins.dia.,bears S.25° 20'E.,106 lks. dist..mkd.¼ S 12 B T.
45.50	Top of ridge,140 ft.above hollow,bears NW and SE.
	Desc.
48.30	Bottom of hollow,50 ft.below ridge,course S.
	Asc.
54.00	Top of spur,50 ft.above hollow,bears NW and SE.
	Desc.
57.00	Head of hollow,50 ft.below spur,course SE.
	Asc.
60.40	Top of ridge,60 ft.above hollow,bears N.and S.
	Desc.
66.00	Bottom of hollow,120 ft.below ridge,course S.
	Asc.
67.30	Top of spur,30 ft.above hollow,bears N.and S.
	Desc.
70.00	Bottom of hollow,20 ft.below spur,course S.
	Asc.
76.10	Top of spur,40 ft.above hollow,bears N.and S.
	Desc.
78.80	Bottom of hollow,30 ft.below spur,course S.
	Asc.
79.50	Top of spur,20 ft.above hollow,bears N.and S.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
79.84	The cor.of secs.1,2,11,and 12.
	Land,mountainous.
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.84 chs.
	Exceptionally difficult to survey,79.84 chs.
	According to Special Instructions I run N.0° 1'W.,on a true line bet.secs.1 and 2.
	Over mountainous land;through heavy timber.
	Asc.
10.60	Top of ridge,150 ft.above cor.,bears N.20°E.and S.20° W.
	Desc.
14.50	Bottom of hollow,60 ft.below ridge,course SW.
	Asc.
23.00	Top of ridge,250 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
26.50	Bottom of hollow,30 ft.below ridge,course S.80°W.
	Asc.
37.70	Top of ridge,100 ft.above hollow,bears N.80°E.and S.80° W.
	Desc.
38.50	Head of hollow,20 ft.below ridge,course S.80°W.
	Asc.
40.00	Set a sandstone,16x12x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W face;from which

Subdivision of T.39 S.,R.4 W.-Continued.

Chains

A pinon pine,8 ins.dia.,bears S.50° 15'E.,65 lks.dist..mkd.¼ S.1.B.T.

A pinon pine,12 ins.dia.,bears S.64° 30'W.,15 lks.dist..mkd.¼ S 2 B T.

41.64 Intersect North bdy.of Tp.,5.90 chs.West of cor.of secs. 34 and 35,heretofore described.

Set a sandstone,19x10x6 ins.,12 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,10 ins.dia.,bears S.72° 40'E.,18 lks. dist..mkd.T 39 S R 4 W S 1 B T.

A pinon pine,12 ins.dia.,bears S.67° 30'W.,15 lks dist..mkd.T 39 S R 4 W S 2 B T.

Land,mountainous .

Soil,clay loam;2nd rate.

Timber,cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land,41.64 chs.

Exceptionally difficult to survey,41.64 chs.

August 22,1908.

August 23,1908:At 7 h 3 m a.m.,l.m.t.,I set off 37° 23'N. on the lat.arc;11° 30'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.,2,3,34,and 35,on S.bdy.of Tp.,which is a sandstone,5x12x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.

Thence I run

N.0° 1'W.,bet.secs.34 and 35.

Over mountainous land;through heavy timber and scatter-

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	undergrowth.
	Asc.
15.00	Top of ridge,100 ft.above sec.cor.,bears E.and W.
	Desc.
22.70	Head of hollow,30 ft.below ridge,course SE.
	Asc.
27.60	Top of ridge,40 ft.above hollow,bears N.20°W.and S.20° E.
	Desc.
40.00	Set a sandstone,18x16x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd. ¼ on W.face;from which
	A pinon pine,12 ins.dia.,bears S.81°E.,31 lks.dist.,mkd.¼ S 35 B T.
	A pinon pine,12 ins.dia.,bears N.16°15'W.,40 lks.dist..mkd.¼ S 34 B T.
55.00	Bottom of hollow,250 ft.below ridge,course SE.
	Asc.
63.00	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
67.80	Bottom of hollow,30 ft.below ridge,course SE.
	Asc.
76.00	Top of ridge,30 ft.above hollow bears N.80°W.and S.80°E.
	Desc.
80.00	Set a sandstone,20x8x6 ins.,15 ins.in the ground,for cor.of secs.26,27;34,and 35,mkd.with 1 notch on S.and 2 notches on E.edges;from which
	A pinon pine,10 ins.dia.,bears N.45°45'E.56 lks.dist..mkd.T 39 S R 4 W S 26 B T.
	A pinon pine,20 ins.dia.,mbears S.75°30'E.,40 lks.dist..mkd. T 39 S R 4 W S 35 B T.
	A pinon pine,8 ins.dia.,bears S.37°45'W.,44 lks.dist..mkd.T 39 S R 4 W S 34 B T.
	A pinon pine,8 ins.dia.,bears N.37°30'W.,26 lks.dist..mkd.T 39 S R 4 W S 27 B T.

Subdivision of T.39 S R 4 W &Continued.

Chains	
	Land,mountainous .
	Soil,clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth ,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	S.89°56'E.,on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,5 lks.South of 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.
10.80	Bottom of hollow,100 ft.below sec.cor.,course SW.
	Asc.
12.85	Top of ridge,50 ft.above hollow,bears NE and SW.
	Desc.
14.70	Leave heavy and enter scattering timber,bears N.and S.
15.85	Wash,35 lks.wide,10 ft.deep,in bottom of canon,50 ft. below ridge,course S.
	Asc.
22.30	Leave dense and enter scattering undergrowth,bears N. and S.
	Enter heavy timber,bears N.and S.
28.80	Top of spur,150 ft.above hollow,bears NW and SE.
	Desc.
29.50	Head of hollow,30 ft.below spur,course SE.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
31.30	Top of spur,40 ft.above hollow,bears N.and S.
	Desc.
32.30	Head of hollow,20 ft.below ridge,course S.
	Asc.
35.00	Top of ridge,20 ft.above hollow,bears N.and S.
	Desc.
40.00	Set a sandstone,18x8x 7 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,10 ins.dia.,bears N.43°W.,30 lks.dist..mkd.¼ S 26 B T.
	A pinon pine,14 ins.dia.,bears S.42°15'E.,61 lks.dist..mkd.¼ S 35 B T.
41.20	Bottom of hollow.200 ft.below ridge,course S.30°E.
	Asc.
45.40	Top of ridge,50 ft.above hollow,bears NW and SE.
	Desc.
47.30	Bottom of hollow,40 ft.below ridge,course SE.
	Thence ascend along bottom of hollow.
48.50	Leave bottom of hollow,course E.
	Asc.
52.00	Top of spur,20 ft.above hollow,bears N.and S.
	Desc.
52.30	Bottom of hollow,15 ft.below spur,course N.80°E.
	Asc.
55.50	Top of spur,50 ft.above hollow ,bears N.and S.
	Desc.
68.90	Bottom of hollow,30 ft.below spur,course S.80°E.
	Asc.
80.00	The cor.of secs.26,27,34,and 35.
	Land,mountainous .
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and buck brush.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	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 23,1908:At this cor.I set off 11° 24'N.,on the decl.arc;and at 0 h 3 m p. m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37° 23'N.,which is thee proper lat.nearly.

	N. 0° 1' W. bet. secs. 26 and 27.
	Over mountanous land; though heavy timber and scattering undergrowth.
	Desc.
13.10	Bottom of hallow, 100 ft, below sec. cor. course SE.
	Asc.
17.00	Top of spur ,200 ft.,above hollow,bears NW. AND SE.
	Desc.
23.00	Bottom of hollow, 25 ft.,below spur,course SE.
	ASC.
29.00	Top of spur 75 ft., above hollow,bears E.and W.
	Desc.
30.65	Bottom of hollow,50.ft.below spur, course E.
	Asc.
39.12	Top of ridge,50.ft.above hollow,bears E.and W.
	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 pinon pine, 8 ins. dia.,bears N. 60° 40'E. 79lks. dist. mkd.¼ S. 26 B.T.
	A pinon pine 10 ins dia.,bears N. 27° 25' W. 69lks. dist. mkd.¼ S 27 B T.
46.80	Bottom of hollow, 30 ft. below ridge course S.60°E.
	Asc.

Subdivision of T.39 S.?R.4W. - Continued.

Chains	
53.00	Top of spur 50ft. above hollow bears E. and W.
	Desc.
62.40	Bottom of canon 165 ft. below spur, course SE.
	Asc.
70.00	Top of ridge, 150 ft. above canon bears NW. and SE.
	Desc.
77.90	Bottom of hollow, 60 ft. below ridge, course S.20° E.
	Asc.
80.00	Set a quartzite stone, 16x12x5 ins., 11 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, mkd. with 2 notches on S. and 2 notches on E. edges; from which
	A pine 10 ins dia., bears N. 83° 45' E., 56 lks. dist. mkd. T 39 S R 4 W S 23 B T.
	A pine, 10 ins. dia. bears S. 68° 20' E. 59 lks. dist. mkd. T39S R 4 W S 26 B T.
	A cedar, 5 ins. dia., bears S70° 30' W., 58 lks. dist. mkd., T39 S R 4 W S 27 B T.
	A cedar 10 ins. dia., bears N. 35° W. 93' lks. dist. mkd. T 39 S R 4 W S 22 B T.
	Land, mountainous.
	Soil, sandy and rocky; 2nd and 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth oak and sage brush.
	Good grass for grazing.
	Mountainous, or heavily timbered land 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.
80.00	Intersect N. and S. line, 28 lks. S. of the cor. of secs. 23, 24, 25, and 26.

Subdivision of T. 39 S., R. 4 W.-- Continued.

Chains	
	Thence I run
	S. 89°48'W., on a true line bet. secs. 23 and 26.
	Over mountianous land; through heary timber and dense sage brush.
	Desc.
10.50	Bottom of hollow 50 ft. below sec. cor., course SW.
	Asc.
12.20	Top of ridge, 20 ft. above hollow, bears NE. and SW.
	Desc.
24.80	Wash 20 lks. wide, 5 ft. deep, in bottom of hollow, 200 ft. below ridge, course S.
	Asc.
26.90	Wash 20 lks. wide 10 ft. deep, course S. 10° E.
40.00	Set a sand stone 16x10x9 ins., 11 ins. in the grouhd, for ¼ sec. cor., mkd. ¼ on N. face; from which
	A cedar, 14 ins. dia., bears N. 82° 30' E. 57 lks. dist., mkd. ¼ S 23 B T.
	A cedar, 14 ins. dia., bears S. 30° W. 33 lks. dist., mkd. ¼ S 26 B T.
51.00	Top of ridge, 200 ft. above hollow, bears NW. and SE.
	Desc.
64.30	Bottom of hollow, 50 ft. below ridge, course S. 20° E.
	Asc.
66.50	Leave timber, bears NW. and SE.
77.80	Enter heavy timber, bears N. and S.
78.50	Top of ridge, 150 ft. above hollow, bears N. and S.
	Desc.
80.00	The cor. of secs. 22, 23, 26, and 27.
	Land, mountainous.
	Soil, clay and sandy; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timered land, or land covered

Subdivision of T.39 S.?R.4 W.- Continued.

Chains	
	with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey 80.00 chs.
	Aug.23, 1908.
	August 24,1908:At 7 h 2 m a.m.,l.m.t.,I set off 37° 24'W., on the dat.arc;11° 09'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.22,23,26,and 27.
	Thence I run
	N.0° 1'W.,bet.secs.22 and 23.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
4.00	Leave timber,bears E.and W.
5.00	Top of ridge,30 ft.above sec.cor.,bears N.20° W.and S.20° E.
	Desc.
19.50	Bottom of swale,50 ft .below ridge,course S.20° E.
	Asc.
20.00	Enter heavy timber, bears E.and W.
28.50	Top of ridge,40 ft.above swale,bears E.and W.
	Desc.
40.00	Set a quartzite stone,14x10x6 ins.,9 ins.in the ground, for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,4 ins.dia.,bears N.85° 40'E.,56 lks. dist..mkd.¼ S 23 B T.
	A pinon pine,10 ins.dia.,bears N.86 ° 40'W., 56 lks.dist..mkd.¼ S 22 B T.
60.00	Begin steep descent,bears N.70° W.and S.70° E.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Leave timber,bears E.and W.
63.00	Foot of steep descent,bears N.70° W.and S.70° E.
	Desc.more gradually.
72.10	Wash,35 lks.wide,15 ft.deep,course S70° E.
78.00	Enter heavy timber,bears E.and W.
80.00	Set a sandstone,24x12x10 ins.,18 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;from which
	A pinon pine,8 ins.dia.,bears N.71° 10'E.,22 lks.dist..mkd.T 39 S R 4 W S 14 B T.
	A cedar,16 ins.dia.,bears S.55° 15'E.,65 lks. dist..mkd.T 39 S R 4 W S 23 B T.
	A cedar,8 ins.dia.,bears S.44° 47'W.,38 lks. dist..mkd.T 39 S R 4 W S 22 B T.
	A pinon pine,6 ins.dia.,bears N.73° 30'W.,15 lks.dist..mkd.T 39 S R 4 W S 15 B T.
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th 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.

	N.89° 48'E.,on a random line bet.secs.14 and 23.
40.00	Set temp.¼ sec.cor.
79.86	Intersect N.and S.line,2 lks.S.of the cor.of secs. 13,14,23,and 24.
	Thence I run
	S.89° 47'W.,on a true line bet.secs.14 and 23.
	Over mountainous land;through dense sage brush.

Subdivision of T.39 S ,R.4 W.-Continued.

Chains	
	Desc.
6.50	Bottom of hollow,20 ft.below sec.cor.,course S.10° E.
	Asc.
12.00	Top of ridge,30 ft.above hollow,bears N.20° W.and S.20° E.
	Desc.
18.70	Wash,20 lks.wide, 8 ft.deep,in bottom of hollow,30 ft. below ridge,course SE.
	Asc.
36.00	Leave dense and enter scattering undergrowth,bears NW and SE.
	Enter heavy timber,bears NW and SE.
39.93	Top of ridge,150 ft.above hollow,bears NW and SE.
	Set a sandstone,15x10x5 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,6 ins.dia.,bears N.79° 45'W.,28 lks.dist..mkd.¼ S 14 B T.
	A cedar,10 ins.dia.,bears S.52° W.,28 lks. dist..mkd.¼ S 23 B T.
	Desc.
55.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
62.50	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
66.00	Bottom of hollow,20 ft.below ridge,course S.
	Asc.
72.50	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
79.86	The cor.of secs.15,14,22,and 23.
	Land,mountainous.
	Soil,gravelly and clay loam ;3rd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.86 chs.
	Exceptionally difficult to survey,79.86 chs.
	August 24,1908: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 heavy timber and scattering undergrowth.
	Asc.
10.00	Top of ridge,150 ft.above sec.cor.,bears NW and SE.
	Desc. rapidly.
20.00	Leave heavy and enter scattering timber,bears E.and W.
	Enter dense undergrowth,bears E.and W.
37.00	Foot of steep descent,bears NW and S.70°E.
	Desc.more gradually.
40.00	Set a sandstone,18x10x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,8 ins.dia.,bears S.16°41'E.,531 lks. dist..mkd.¼ S 14 B T.
	A cedar,10 ins.dia.,bears S.15°31'W.,369 lks. dist..mkd.¼ S 15 B T.
42.00	Bottom of hollow,150 ft.below ridge,course S.65°E.
	Asc.
47.00	Enter heavy timber,bears E.and W.
63.50	Top of ridge,200 ft.above hollow,bears NW and SE.
	Desc.
70.50	Leave timber,bears E.and W.
79.50	Wash,10 lks.wide,8 ft.deep,course SE.
80.00	Set a sandstone,18x10x8 ins.,12 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

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	A pinon pine,10 ins.dia.,bears N.46° 55'W.,411 lks.dist..mkd.T 39 S R 4 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,gravelly and clay loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,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.
	August 24,1908.

	August 25,1908:At 7 h 2 m a.m.,l.m.t.,I set off 37° 26'N., on the lat.arc;10° 49'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.89° 47'E.,on a random line bet.secs.10 and 14.
40.00	Set temp. ¼ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.11,12,13,and 14.
	Thence I run
	S.89° 47'W.,on a true line bet.secs.11 and 14.
	Over mountainous land;through dense sage,oak,and buck brush,and scattering cedar and pinon pine.
	Descend.
18.50	Point from which spring bears N.,120 lks.dist.
19.00	Spring branch,1 lk.wide,2 ins.deep,course S.
19.20	Road from Kanab to Podunk,bears N.20°W.and S.20°E.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
25.00	Wash,10 lks.wide,3 ft.ddep,in bottom of hollow,80 ft. below sec.cor.,course SE.
	Asc.
40.00	Set a sandstone,18x14x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,30 ins.dia.,bears N.5°45'E.,140 lks.dist..mkd.¼ S 11 B T.
	A cedar,8 ins.dia.,bears S.14°45'W.,25 lks. dist..mmkd.¼ S 14 B T.
42.30	Wash,15 lks.wide, 3 ft.deep,course S.
44.00	Leave timber,bears N.and S.
73.60	Wash,20 lks.wide,6 ft.deep,course SE.
80.00	The cor.of secs.10,11,14,and 15.
	Land,mountainous.
	Soil,clay and gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,sage and oak, 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.0°1'W.,bet.secs.10 and 11.
	Over mountainous land;through dense undergrowth,and scattering timber.
	Asc.
5.00	Top of spur,15 ft.above cor.,bears NW and SE.
	Desc.
14.23	Bottom of hollow,25 ft.below spur,course SE.
	Asc.
23.00	Enter heavy timber,bears NW and SE.

Subdivision of T.39 S.,R.4 W-Continued.

Chains	
	Begin abrupt ascent,bears NW and SE.
30.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
33.00	Bottom of hollow,100 ft.below ridge,course SW.
	Asc.
40.00	Set a sandstone,14x10x6 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,20 ins.dia.,bears N.34° E.,13 lks. dist..mkd.¼ S 11 B T.
	A pinon pine,8 ins.dia.,bears S.86° W.,59 lks. dist..mkd.¼ S 10 B T.
42.30	Top of ridge,200 ft.above hollow.bears E.and W.
	From this point the NW corner of a small cultivated field bears N.30° 30'E.,about 18.00 chs.dist. This field is claimed by George Greenhaugh.
	Desc.
43.30	Leave heavy and enter scattering timber,bearsE and W.
43.60	Foot of steep descent,bears E.and W.
	Desc.gradually.
57.20	Wash,50 lks.wide,4 ft.deep,in bottom of hollow, 200 ft. below ridge,course S.70° E.
	Asc.
65.00	Point from which the SE cor.of George Greenhaugh's fence enclosing about 10.00 acres of land bears S.50° E.,about 3.00 chs.dist.This ranch is called "Podunk".
	The center of a small reservoir bears N.40° E.,about 6.00 chs.dist.
66.50	Road ,bears NW and SE.
67.00	Wash,10 lks.wide,2 ft.deep,course SE.
70.00	Begin more abrupt ascent,bears E.and W.
80.00	Set a sandstone,16x8x6 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 E.edges;from which
	A cedar,7 ins.dia.,bears N.25° E.,21 lks.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	dist..mkd.T 39 S R 4 W S 2 B T.
	A cedar,20 ins.dia.,bears S.49° 50'E.78 lks.
	dist..mkd.T 39 S R 4 W S 11 B T
	A cedar,24 ins.dia.,bears S.36° 40'W.,55 lks.
	dist..mkd.T 39 S R 4 W S 10 B T.
	A pinon pine,12 ins.dia.,bears N.40° 35'W.,86 lks
	dist.,mkd.T 39 S R 4 W S 3 B T
	Land,mountainous .
	Soil,clay and gravelly loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,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.
	August 25,1908:At this cor.I set off 10° 43'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° 27'N.,which is the proper lat.nearly.
	N.89° 47'E.,on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
79.76	Intersect N.and S.line,5 lks.S.of the cor.of secs.1,2,11, and 12.
	Thence I run
	S.89° 45'W.,on a true line bet.secs.2 and 11.
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
.75	Bottom of hollow,30 ft.below sec.cor.,course S.30°E.
	Asc.
2.00	Leave timber,bears N.and S.
7.70	Enter heavy timber,bears N.and S.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
10.20	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
12.70	Leave timber,bears N.and S.
18.40	Wash,40 lks.wide,10 ft.deep,in bottom of hollow,150 ft.below ridge,course SE.
	Asc.
32.60	Enter heavy timber,bears N and S.
34.60	Top of ridge,200 ft.above hollow,bears N.60°W.and SE.
	Desc.
39.88	Set a sandstone,20x8x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,16 ins.dia.,bears N.83° 50'W.,18 lks.dist..mkd.¼ S 2 B T.
	A pinon pine,12 ins.diaa.,baers S.39°50'W.,55 lks.dist..mkdl.¼ S 11 B T.
40.10	Head of hollow,30 ft.below ridge,course S.20°W.
	Asc.
46.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
51.00	Bottom of hollow,250 ft.below ridge,course S.
	Asc.
59.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
66.60	Leave heavy timber,bears N.and S.
72.00	Wash,12 lks.wide,7 ft.deep,in bottom of hollow,100 ft. below ridge,course S.
	Asc.
76.20	Enter timber,bears N.and S.
79.76	The cor.of secs.2,3,10,and 11.
	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.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.76 chs.
	Exceptionally difficult to survey,79.76 chs.
	———
	For reasons already explained I run N.0°1'W.,bnt as true line bet.secs.2 and 3.
	Over mountainous land;through heavy timber;and dense undergrowth.
	Asc.
17.30	Top of ridge,600 ft.above sec.cor.,bears NE and SW.
	Desc.
17.40	Leave heavy and enter scattering timber,bears NE and SW.
40.00	Set a sandstone,20x7x5 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A red pine,16 ins.dia.,bears N.27°25'E.,58 lks.dist..mkd.¼ S 2 B T.
	A red pine,18 ins.dia.,bears N.77°45'W.,79 lks.dist..mkd.¼ S 3 B T.
41.40	Bottom of canon,400 ft.below ridge,course S.20°E.
	Asc.
41.98	Intersect N.bdy.of Tp.,5.69 chs.W.of cor.of cor.of secs. 33 and 34,heretofore described.
	Set a sandstone,18x10x5 ins.,12 ins.in the ground,for closing cor.of secs.2 and 3,mkd.with C C on S.,with 2 grooves on E.and 4 grooves on W.faces;from which
	A red pine,14 ins.dia.,bears S.69°E.,16 lks. dist..mkd.T 39 S R 4 W S 2 B T.
	A yellow pine,30 ins.dia.,bears S.51°20'W.,118 lks.dist..mkd.T 39 S R 4 W S 3 B T.
	Land,mountainous .

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Soil,clay loam;2nd rate .
	Timber,cedar,pinon pine,red 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,41.98 chs.
	Exceptionally difficult to survey,41.98 chs.
	August 25,1908.

	August 26,1908:At 7 h 2 m a.m.,l.m.t.,I set off 37°23'N., on the lat.arc;10°28'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34. on S.bdy.of Tp.,which is a sandstone,8x8x6 ins.,above ground,firmly set,and mkd.and witnessed as described by the surveyor general.
	Thence I run
	N,0°2'W.,bet.secs.33 and 34.
	Over mountainous land;through dense sage and buck brush.
	And scattering timber.
	Desc.gently.
9.10	Bottom of hollow,25 ft.below sec.cor.,course S.80°E.
	Continue desc.
12.25	Wash,25 lks.wide,15 ft.deep,in bottom of Meadow Canon, 40 ft.below sec.cor.,course S.20°E.
	Asc.
18.00	Road to Skumpah,bears N.40°W.and S.40°E.
25.00	Begin more abrupt ascent.bears NW and SE.
	Enter heavy timber,bears NW and SE.
34.00	Top of ridge,50 ft.above canon,bears E.and W. Desc.
40.00	Set a sandstone,14x12x6 ins.,9 ins.in the ground,for

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	¼ sec.cor.mkd.¼ on W.face;from which
	A cedar,8 ins.dia.,bears S.30° 50'E.,45 lks.
	dist..mkd.¼ S 34 B T.
	A cedar,18 ins.dia.,bears S.45 °10'W.,45 lks.
	dist..mkd.¼ S 34 B T
40.90	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
44.50	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
68.20	Bottom of hollow,40 ft.below ridge,course W.
	Asc.
69.50	Top of ridge,60 ft.above hollow,bears E.and W.
	Desc.
71.25	Bottom of hollow,40 ft.below ridge,course SW;
	Asc.
76.00	Top of ridge,150 ft.above hollow,bearseE.and W.
	Desc.
80.00	Set a sandstone,20x12x5 ins.,15 ins.in the ground,for
	cor.of secs.27,28,33,and 34,mkd.with 1 notch on S.,and
	3 notches on E.edges ;from which
	A pinon pine,8 ins.dia.,bears N.22° 30'E.,45 lks
	dist..mkd.T 39 S R 4 W S 27 B T.
	A pinon pine,10 ins.dia.,bears S.60° 45'E.,20
	lks.dist..mkd.T 39 S R 4 W S 34 B T.
	A pinon pine,8 ins.dia.,,bears S.81° 30'W.,93
	lks.dist..mkd.T 39 S R 4 W S 33 B T.
	A pinon pine,6 ins.dia.,bears N.19° 15'W.,64
	lks.dist..mkd.T 39 S R 4 W S 28 B T.
	Land,mountainous.
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage ,oak,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	———
	S.89° 58'E.,on a random line bet.secs.27 and 34.
40.00	Set temp.½ sec.cor.
79.82	Intersect N.and S.line,19.1lks.S.of the cor.of secs. 26,27,34,and 35.
	Thence I run
	S.89° 54'W.,on a true line bet.secs.27 and 34.
	Over mountainous land;through heavy timber;and dense undergrowth.
	Asc.
17.30	Top of spur,100 ft.above cor.,bears N.and S.
	Desc.
21.50	Head of hollow,40 ft.below spur,course N.30° E.
	Asc. abruptly.
30.00	Top of abrupt ascent,bears N.and S.
30.50	Top of ridge,200 ft.above hollow,bears N.and S. Desc.
39.91	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ½ sec.cor.,mkd.¼ on N.face from which
	A cedar,6 ins.dia.,bears N.42° 30'W.,29 lks. dist.,mkd.½ S 27 B T.
	A pinon pine,10 ins.dia.,bears S.22° 30'W.,21 lks.dist.,mkd.½ S 34 B T.
40.20	Bottom of hollow,100 ft.below ridge,course S.15° E.
	Asc.
50.00	Top of spur,30 ft.above hollow,bears NW and SE.
	Desc.
57.40	Bottom of hollow,35 ft.below spur,course S.30° E.
	Asc.
59.50	Top of spur,40 ft.above hollow,bears N.30° W.and S.30° E.
	Desc.

Subdivision of T.31 S.,R.4 W.-Continued.

Chains	
71.00	Foot of steep descent,150 ft.below spur,bears N.and S.
75.00	Head of hollow,30 ft.below foot of steep descent,course W.
	Asc.
77.80	Top of spur,200 ft.above hollow,bears N.and S.
	Desc.
79.82	The cor.of secs.27,28,33,and 34.
	Land,mountainous.
	Soil, gravelly loam;2nd rate.
	Timber,cedar and piron pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.82 chs.
	Exceptionally difficult to survey,79.82 chs.
	August 26,1908:At this cor.I set off 10°22'N., on the decl.arc;and at 0 h 2 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.

N.0°2'W.,bet.secs.27 and 28.

Over mountainous land;through heavy timber and scattering undergrowth.

Desc. along west slope of Divide ridge.

40.00	Set a quartzite stone,18x14x4 ins.,12 ins.in the ground, for ¼ sec.cor.,mkd.¼ on W.face;from which
	A piron pine,14 ins.dia.,bears N.83°59'E.,50 lks.dist.,mkd.¼ S 27 B T.
	A piron pine,8 ins.dia.,bears N.76°W.,119 lks. dist.,mkd.¼ S 28 B T.
40.15	Head of hollow,10 ft.below ¼ sec.cor.,course W.
	Asc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
60.00	Top of divide ridge,between Meadow canon and canon on east,60 ft.above hollow,bears N.25° W.and S.25° E.
	Desc.
77.50	Bottom of hollow,20 ft.below ridge,course SE.
	Asc.
80.00	Set a sandstone,18x8x6 ins.,12 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 pinon pine,6 ins.dia.,bears N.35° 6'E.,60 lks. dist..mkd.T 39 S R 4 W S 22 B T.
	A yellow pine,12 ins.dia.,bears S.32° 35'E.,200 lks.dist..mkd.T 39 S R 4 W S 27 BT.
	A cedar,17 ins.dia.,bears S.52° 34'W.,79 lks. dist..mkd.T 39 S R 4 W S 28 B T.
	A pinon pine,16 ins.dia.,bears N.44° 19'W.,66 lks.dist..mkd.T 39 S R 4 W S 21 B T.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,and pinon pine and yellow pine.
	Undergrowth,oak,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	Exceptionally difficult to survey ,80 00 chs.

August 26,1908.

August 27,1908:At 7 h 1 m a.m.,l.m.t.,I set off 37° 24' N.,on the lat.arc;10° 07'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

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	N.89° 54'E.,on a random line bet.secs.22 and 27.
40.00	Set temp.¼ sec.cor.
79.90	Intersect N.and S.line,25 lks.N.of the cor.of secs.22,23, 26,and 27.
	Thence I run
	N.89° 55'W.,on a true line bet.secs.22 and 27.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Desc.
1.15	Bottom of hollow,30 ft.below sec.cor.,course S.45° E.,
	Asc.
13.90	Top of spur,100 ft.above hollow,bears N.70° W.and S.70° E.
	Desc.
28.90	Bottom of hollow,60 ft,below spur,course S.
	Asc.
33.90	Leave timber,and enter dense undergrowth,bears N.and S.
39.95	Set a quartzite stone,16x8x4 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.
48.20	Leave undergrowth and enter heavy timber,bears N.and S.
52.40	Top of ridge,75 ft.above hollow,bears NW and SE.
	Desc.
56.40	Bottom of hollow,150 ft.below ridge,course SE.
	Asc.
79.90	The cor.of secs.21,22,27,and 28.
	Land,mountainous.
	Soil,clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	with dense undergrowth,79.90 chs.
	Exceptionally difficult to survey,79.90 chs.
	N.0° 2'W.,bet.secs.21 and 22.
	Over mountainous land;through heavy timber.
	Desc.
10.00	Bottom of hollow,10 ft.below sec.cor.,course SE.
	Asc.
22.00	Top of spur,60 ft.above hollow,bears NW and SE.
	Desc.
26.50	Leave timber and enter dense undergrowth,bears NW and SE.
40.00	Set a sandstone,16 x12x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.½ on W.face;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
41.00	Bottom of hollow,100 ft.below ridge,course E.
	Asc.
45.00	Top of knoll,60 ft.above hollow.
	Desc.
49.00	Bottom of swale,60 ft.below knoll,course S.80° E.
	Asc.
53.60	Top of knoll on spur,100 ft.above swale,bears NW and SE.
	Desc.
80.00	Set a sandstone,24x6x8 ins.,18 ins.in the ground,for cor.of secs. 15,16,21,and 22,mkd.39 S on NE ,4 W on SE. faces;with 3 notches on S.,and E.edges;and 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.
	Undergrowth,oak and buck brush.
	Good grass for grazing.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	Exceptionally difficult to survey.80.00 chs.
	August 27,1908:At this cor.I set off 10° 01'N.,on the decl.arc;and at 0 h 1 m p.m.,l.m.t.,observe the sun on the meridian the resulting lat.is 37° 25'N.,which is the proper lat.nearly.

	S.89° 55'E.,on a random line bet.secs.15 and 22 .
40.00	Set temp. ¼ sec.cor.
80.12	Intersect N.and S.line,21 lks.S.of the cor.of secs.14,1 22 and 23.
	Thence I run
	S.89° 56'W.,on a true line bet.secs.15 and 22.
	Over mountainous land;through dense undergrowth,and heavy timber.
	Desc.
13.30	Leave timber,bears N.and S.
17.50	Wash,70 lks.wide,30 ft.deep,course S.30° E.;in bottom of hollow,50 ft.below sec.cor.,course S.30° E.
	Asc.
25.00	Begin rapid ascent,bears N.30° W.and S.30° E.
	Enter heavy timber,bears N.30° W.and S.30° E.
38.80	Top of steep ascent,bears N.30° W.and S.30° E.
	Leave heavy and enter scattering timber,bears N.30° W. and S.30° E.
40.00	Set a sandstone,15x10x5 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pine,8 ins.dia.,bears N.82° 10'W.,102 lks. dist..mkd.¼ S 15 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
40.50	Top of spur,150 ft.above hollow,bears N.and S.
	Desc.
80.12	The cor.of secs.15,16,21,and 22.
	Land,mountainous.
	Soil,clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,rabbit ,oak,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.12 chs.
	Exceptionally difficult to survey,80.12 chs.
	August 27,1908:At this cor.latitude 37°25'07"N.,longitude 112° 16'41"W.,I set off 37°25'N.,on the lat.arc; 9°58'N.,on the decl.arc;and at 5 h 1 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.
	At 9 h 8m 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 in a wooden plug set in the ground,5.00 chs.N.of the cor.
	August 27,1908.

August 28,1908:At 6 h 30 m a.m.,l.m.t.,I set 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 0.29 ins.east of the mark determined with the solar.

At 7 h 1 m a.m.,l.m.t.,I set off 37°25'N.,on the lat.

Subdivision of T.39S.,R.4 W.-Continued.

Chains	
	arc;9° 46'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 0.25 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 0'15"west and 0'13"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 cor.of secs.15,16,21,and 22,I run N.0° 2'W.,bet.secs.15 and 16.
	Over mountainous land;through dense undergrowth.
	Desc.
10.00	Enter heavy timber,bears E.and W.
13.50	Bottom of hollow.50 ft.below sec.cor.,course E.
	Asc.
16.20	Top of spur,120 ft.above hollow,bears NW and SE.
	Desc.
20.80	Bottom of hollow,120 ft .below spur,course SE.
	Asc.
26.00	Top of ridge,70 ft,above hollow,bears NW and SE.
	Leave heavy and enter scattering timber,bears NW and SE.
	Desc.
40.00	Set a sandstone,14x12x5 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,14 ins.dia.,bears S.3° 45'E.,303 lks. dist..mkd.¼ S 15 B T.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	A pine,4 ins.dia.,bears N.14° 50'W.,230 lks. dist..mkd.¼ S 16 B T.
50.50	Old fence,bears NE and SW.
	Enter pasture.
64.75	Wash,30 ft.deep,75 lks.wide,in bottom of hollow,100 ft. below ridge,course S.75°E. Creek,1 lks.wide,½ in.deep, in bottom.
	Asc.
75.00	Enter yellow pine timber,bears E.and W.
80.00	Set a sandstone,24x10x8 ins.,18 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;from which
	A pinon pine,12 ins.dia.,bears N.48°E.,104 lks.dist..mkd.T 39 S R 4 W S 10 B T.
	A yellow pine,24 ins.dia.,bears S.35° 45'E.,101 lks.dist..mkd.T 39 S R 4 W S 15 B T.
	A yellow pine,28 ins.dia.,bears S.33° 30'W.,88 lks.dist..mkd.T 39 S R 4 W S 16 B T.
	A yellow pine,30 ins.dia.,bears N.66° 25'W.,89 lks.dist..mkd.T 39 S R 4 W S 9 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.

N.89° 56'E.,on a random line bet.secs.10 and 15.

40.00	Set temp.¼ secs.cor.
80.26	Intersect N.and S.line,1 lk.N.of the cor.of secs.10,11,

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	14,and 15.
	Thence I run
	N.89° 55'W.,on a true line bet.secs.10 and 15.
	Over mountainous land;through dense undergrowth.
	Desc.
.35	Wash,10 lks.wide,4 ft.deep,in bottom of hollow,25 ft. below cor.,course SE.
	Asc.
13.00	Wash,4 ft.deep,10 lks.wide,course SE.
31.70	Top of ridge,200 ft.above hollow,bears N.and S.
	Desc.
32.00	Enter heavy timber,bears N.and W.
35.50	Bottom of hollow,30 ft.below ridge,course N.
	Asc.
40.13	Set a sandstone,15x8x5 ins.,10 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,18 ins.dia.,bears N.26° E.,30 lks. dist..mkd.¼ S 10 B T.
	A pinon pine,10 ins.dia.,bears S.37° 35'W.,32 lks.dist.mkd.¼ S 15 B T.
44.00	Top of ridge,200 ft.above hollow,bears NW and SE.
	Desc. abruptly.
49.80	Bottom of hollow,200 ft.below ridge,course S.
	Asc.
52.70	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
59.30	Head of hollow,100 ft.below ridge,course S.
	Asc.abruptly..
64.50	Top of sharp ridge,100 ft.above hollow,bears N.20° E.and and S.20° W.
	Desc.
72.70	Head of hollow,140 ft.below ridge,course NW.
	Asc.
76.00	Top of spur,30 ft.above hollow,bears N.and S.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
77.00	Top of perpendicular sandstone ledge,70 ft.high,bears NE and SW.
77.25	Foot of descent;100 ft.below spur,bears NE and SW.
	Continue descent.
80.26	The cor.of secs.9,10,15,and 16.
	Land,mountainous.
	Soil,clay loam and rocky;2nd and 4th 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,80.26 chs.
	Exceptionally difficult to survey,80.26 chs.
	N.0° 2'W.,bet.secs.9 and 10.
	Over mountainous land;through scattering timber and dense undergrowth.
	Asc.
1.00	Bottom of canon,20 ft.below sec.cor.,course S.20° W.
	Asc.
19.00	Top of ridge,600 ft.above canon,bears NE and SW.
	Desc.
30.00	Bottom of canon,200 ft.below ridge,course S.60° W.
	Asc.abruptly.
40.00	Set a sandstone,22x8x4 ins.,16 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,6 ins.dia.,bears S.71° 15'E.,17 lks.dist..mkd.¼ S 10 B T.
	A pinon pine,14 ins.dia.,bears S.78° 45'W.,35 lks.dist..mkd.¼ S 9 B T.
	August 28,1908:At this cor.I set off 9° 40'N.,on the decl.

Subdivision of T.39 S.,R 4 W -Continued.

Chains	
	arc;and at 0 h 1 m p.m.,l.m.t.,observe the sun on the meridian,the resulting lat.is 37°26'N.,which is the proper lat.nearly.
46.50	Top of ridge,800 ft.above canon,bears E.and W.
	Desc.
46.75	Leave timber,bears E.and W.
71.00	Bottom of canon,1000 ft.below ridge,course E.
	Asc.
72.50	Enter heavy timber,bears E.and W.
80.00	Set a sandstone,20x6x6 ins.,15 ins.in the ground,for cor.of secs.3,4,9,and.10,mkd.with 5 notches on S.and 33 notches on E.edges;from which
	A pinon pine,14 ins.dia.,bears N.75°10'E.,108 lks.dist.,mkd.T 39 S R 4 W S 3 B T.
	A cedar,8 ins.dia.,bears S.48°E.,45 lks. dist..mkd.T 39 S R 4 W S 10 B T.
	A pinon pine,12 ins.dia.,bears S. 63°10'W.,51 lks.dist..mkd.T 39 S R 4 W S 9 B T.
	A cedar,14 ins.dia.,bears N.8°W.,49 lks. dist., mkd.T 39 S R 4 W S 4 BT.
	Land,mountainous .
	Soil,clay and 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.

	S.89°55'E.,on a random line bet.secs.3 and 10.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N.and S.line,9 lks.S.of the cor.of secs.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	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 heavy timber;and scattering undergrowth.
	Asc.
.50	Top of ridge,10 ft.above sec.cor.,bears N.and S.
	Desc.
11.00	Wash,50 lks.wide,3 ft.deep,in bottom of hollow,50 ft. ft.below ridge,course SE.
	Asc.
24.00	Old road,bears NW and SE.
35.50	Begin steep ascent,bears NW and SE.
39.99	Set a sandstone,16x8x5 ins.,11 ins.in the ground,for ¼ sec.cor..,mkd.¼ on N.face;from which
	A pine,10 ins.dia.,bears N.13° 36'W.,154 lks.dist..mkd.¼ S 3 B T.
	A pinon pine,12 ins.dia.,bears S.8° 50'W.,93 lks.dist..mkd. ¼ S 10 B T.
40.60	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
48.90	Bottom of hollow,90 ft.below ridge,course S.
	Asc.
70.40	Top of ridge,100 ft.above hollow,bears N.and S.
	Sevier Forest Reserve Bdy.post bears N.,30 lks.dist.
	Desc.
79.00	Bottom of hollow,70 ft.below spur,course S.
	Asc.
79.98	The cor.of secs.3,4,9,and 10.
	Land,mountainous .
	Soil,gravelly;3rd rate.
	Timber,cedar,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Mountainous or heavily timbered land,79.98 chs.
	Exceptionally difficult to survey,79.98 chs.
	For reasons already explained I run
	N.0°2'W.,on a true line bet.secs.3 and 4.
	Over mountainous land;through heavy timber and dense undergrowth.
	Asc.
12.50	Top of ridge, 350ft.above sec.cor.,bears E.and W.
	Desc.
12.75	Leave heavy and enter scattering timber,bears E.and W.
20.00	Bottom of hollow,150 ft.below ridge,course E.
	Asc.
29.00	Top of ridge,50 ft.above hollow,bears E.and W.
	Desc.
40.00	Set a sandstone,18x8x6 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,30 ins.dia.,bears N.8°25'E.,120 lks.dist..mkd.¼ S 3 B T.
	A yellow pine,20 ins.dia.,bears N.6°W.,209 lks.dist.,mkd.¼ S 4 B T.
42.20	Old road,bears N.60°W.and S.60°E.
	In bottom of canon,250 ft.below ridge,course SE.
	Asc.
42.40	Intersect N.bdy.of Tp.,5.58 chs.West of the cor.of secs. 32 and 33,heretofore described .
	Set a sandstone,18x6x8 ins.,12 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;from which
	A yellow pine,20 ins.dia.,bears S.75°E.,158 lks.dist..mkd.T 39 S R 4 W S 3 B T.
	A yellow pine,40 ins.dia.,bears S.26°W.,43 lks.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	dist..mkd.T 39 S R 4 W S 4 B T.
	Land,mountainous.
	Soil,gravelly ;3rd rate.
	Timber,cedar,pinon pine,yellow pine,and red pine.
	Undergrowth,oak,service berry,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,42.40 chs.
	Exceptionally difficult to survey,42.40 chs.
	August 28,1908.

	August 29,1908:At 7 h 1 m a.m.,l.m.t.,I set off 37° 23'N. on the lat.arc;9° 25'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,32,and 33,on S.bdy.of Tp.,heretofore described.
	Thence I run
	N.0° 3'W.,bet.secs.32 and 33.
	Over mountainous land;through dense undergrowth and scattering timber.
	Asc.
4.30	Top of spur,30 ft.above cor.,bears E.and W.
	Desc.
14.65	Head of hollow,30 ft.below spur,course E.
	Asc.
20.00	Top of ridge,30 ft.above hollow,bears N 60° E.and S.60° W.
	Desc
33.00	Bottom of hollow,100 ft.below ridge,course N.80° E.
	Asc.
40.00	Set a sandstone,18x12x5 ins.,12 ins.in the ground,for ½ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,24 ins.dia.,bears S.32° E.,48 lks.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	dist..mkd.¼ S 33 B T.
	A cedar,18 ins.dia.,bears S.38°W.,87 lks.
	dist..mkd.¼ S 32 B T.
51.60	Wash,20 lks.wide,5 ft.deep,in bottom of canon,200 ft.below spur,course SE.
	Asc.
67.50	Top of abrupt ascent,bears NW and SE.
73.50	Top of ridge,250 ft.above canon,bears N.30°W.and S.30° E.
	Desc.
80.00	Set a sandstone,16x8x8 ins.,11 ins.in the ground,for cor.of secs.,28,29,32,and 33,mkd.with 1 notch on S. and 4 notches on E.edges;from which
	A cedar,5 ins.dia.,bears N.10°10'E.,28 lks.
	dist..mkd.T 39 S R 4 W S 28 B T.
	A cedar,8 ins.dia.,bears S.39°35'E.,55 lks.
	dist..mkd. T 39 SR 4 W S 33 B T.
	A cedar,7 ins.dia.,bears S.49°30'W.,54 lks.
	dist..mkd.T 39 S R 4 W S 32 B T.
	A pinon pine,8 ins.dia.,bears N.49°50'W.,52 lks.dist..mkd.T 39 S R 4 W S 29 B T.
	Land,mountainous.
	Soil,clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,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.

S.89°58'E.,on a random line bet.secs.28 and 33.

40.00	Set temp.¼ sec.cor.
80.15	Intersect N.and S.line,5 lks.E.of the cor.of secs.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains

27,28,33,and 34.

Thence I run

West,on a true line bet.secs.28 and 33.

Over mountainous land;through heavy timber and dense undergrowth.

Desc.

23.90 Leave heavy and enter scattering timber,bears N.and S.

24.35 Wash,15 lks.wide,5 ft.deep,in mouth of hollow,100 ft. below sec.cor.,course S.

32.90 Road to Skumpah [illegible] ,bears N.50° W.and S.30° E.

34.00 Wash,30 lks.wide,15 ft.deep,incanon,course S.40° E.

Asc.

39.00 Top of spur,20 ft.above canon,bears N.and S.

Desc.

40.07½ Set a sandstone,20x8x6 ins.,15 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which

A pinon pine,10 ins.dia.,bears N.71° 30'E.,48 lks.dist..mkd.½ S 28 B T.

A cedar,5 ins.dia.,bears S.17° 30'E.,74 lks. dist..mkd.¼ S 33 B.T.

41.90 Head of hollow,20 ft.below spur,course N.

Asc.

57.40 Top of sbrupt ascent,bears NW and SE.

80.15 The cor.of secs.28,29,32,and 33,Point 150 ft.above hollow.

Land,mountainous.

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

Timber,cedar and pinon pine.

Undergrowth,oak ,sage,and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.15 chs.

Exceptionally difficult to survey,80.15 chs.

August 29,1908 At this cor.I set off 9° 19'N.,on the decl. arc;and at 0 h 1 m p.m.,l.m.t.,observe the sun on the

Subdivision of T.39 S., R.4 W.-Continued.

Chains	
	meridian, the resulting lat. is 37° 23'N., which is the proper lat. nearly.
	N.0° 3'W., bet. secs. 28 and 29.
	Over mountainous land; through heavy timber and scattering undergrowth.
	Desc. abruptly.
22.30	Leave timber, and enter dense undergrowth, bears E. and W.
30.75	Foot of steep descent, bears NW and SE.
	Desc. gradually.
40.00	Set a sandstone, 16x8x6 ins., 11 ins. in the ground, for ¼ sec. cor.. mkd. ½ on W. face; and raise a mound of stone, 2 ft base, 1½ ft. high, W. ocorc.
42.50	Creek, 3 lks. wide, 2 ins. deep, in bottom of Meadow Canon, 200 ft. below sec. cor., course S.50° E.
	Asc.
43.00	Road to Skumpah [illegible], bears NW and SE.
48.00	Begin steep asc., bears NW and SE.
50.25	Enter heavy timber, bears NW and SE.
79.00	Leave heavy and enter scattering timber, bears E. and W.
80.00	Set a sandstone, 18x12x6 ins., 12 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, 14 ins. dia., bears N.40° 14'E., 121 lks. dist.. mkd. T 39 S R 4 W S 21 B T.
	A pinon pine, 4 ins. dia., bears S.35° 15'E., 165 lks. dist.. mkd. T 39 S R 4 W S 28 B T.
	A cedar, 8 ins. dia., bears S.29° 30'W., 231. lks. dist.. mkd. T 39 S R 4 W S 29 B T.
	A cedar, 10 ins. dia., bears N.67° W., 109 lks. dist.. mkd. T 39 S R 4 W S 20 B T.
	Land, mountainous .

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Soil,clay and gravelly loam;2nd rate.
	Timber;cedar and pinon pine.
	Undergrowth,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.
	East,on a random line bet.secs. 21 and 28.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,14 lks.N.of the cor.of secs. 21,22,27 and 28.
	Thence I run
	N.89°54'W.,on a true line bet.secs.21 and 28.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
9.60	Top of ridge,100 ft.above sec.cor.,bears N.and S.
	Desc. abruptly.
13.20	Head of hollow,80 ft.below ridge,course S.
	Continue descent.
40.00	Set a sandstone,14x9x6 ins.,9 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,24 ins.dia.,bears E.18°05'W.,73 lks. dist..mkd.¼ S 28 B T.
	A cedar,8 ins.dia.,bears N.10°15'E.,204 lks. dist..mkd.¼ S 21 B T.
46.50	Creek,2 lks.wide,1 in.deep,in bottom of wash,50 lks.wide, 20 ft.deep,in bottom of canon,200 ft.below ridge,course SW.
	Asc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
74.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
80.00	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.
	Undergrowth,larb and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	August 29,1908.

	August 30,1908:At 7 h 1 m a.m.,l.m.t.,I set off 37° 24' on the lat.arc;9° 03'N.,on the decl.arc;and determine a meridian with the solar at the cor.of secs. 20,21,28, and 29. Thence I run
	N.0° 3'W.,bet.secs.20 and 21.
	Over mountainous land;through heavy timber and scattering undergrowth.
	Asc.
7.80	Top of knoll,50 ft.above cor.
	Desc.abruptly.
8.00	Leave heavy and enter scattering timber,bears NW and SE.
	Enter dense undergrowth,bears NW and SE.
11.00	Bottom of swale,75 ft.below knoll,course SE.
	Asc.
22.00	Top of ridge,25 ft.above swale,bears NW and SE.
	Desc.
24.40	Bottom of swale,20 ft.below ridge,course SE.
	Asc.
32.00	Top of spur,100 ft.above hollow,bears N.65°W.and S.65° E.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
40.00	Set a quartzite stone,16x12x4 ins.,11 ins.in the ground, for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,16 ins.dia.,bears S.50°35'E.,113 lks. dist..mkd.¼ S 21 B T.
	A cedar,6 ins.dia.,bears N.73°52'W.,192 lks. dist..mkd.¼ S 20 B T.
53.50	Wash,10 lks.wide,6 ft.deep,in hollow,100 ft.below ridge, course E.
	Asc.
55.00	Top of knoll,15 ft.above hollow,
	Desc.
57.75	Creek,1 lk.wide,1 in.deep,in wash,20 lks.wide,15 ft. deep,in Crawford canon,150 ft.below knoll,course SE.
	Asc.
71.00	Top of knoll,100 ft.above canon.
	Leave timber,bears E.and W.
	Desc.
80.00	Set a conglomerate stone,16x12x10 ins.,11 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 cedar,7 ins.dia.,bears S.21°W.,181 lks. dist..mkd.T 39 S R 4 W S 20 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;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,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.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	S.89° 54'E.,on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N.and S.line,14 links.S.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.
	Asc.
22.00	Enter scattering timber,bears N.and S.
25.00	Begin steep ascent,bears N.and S.
40.05	Set a sandstone,16x8x5 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.
45.00	Top of ridge,300 ft.above sec.cor.,bears N.and S.
	Desc.a
50.00	Desc.abruptly,bears N.and S.
62.50	Bottom of canon,250 ft.below ridge,course S.
	Asc.
71.00	Top of ridge,100 ft.above canon,bears N.and S.
	Desc.
80.10	The cor.of secs.16,17,20,and 21.
	Land,mountainous.
	Soil,gravelly and clay loam and rocky;2nd 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage,oak,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.
	August 30,1908:At the noon hour the sky is overcast and solar observations are impossible.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	N.0°3'W.,bet.secs.16 and 17.
	Over mountainous land;through dense undergrowth.
	Asc.
18.50	Enter heavy timber,bears E.and W.
26.00	Top of spur,125 ft.above sec.cor.,bears NW and SE.
	Desc..
32.50	Bottom of hollow,60 ft.below spur,course SE.
	Asc.
36.00	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
37.00	Leave heavy timber and enter scattering yellow pine timber,bears E.and W.
40.00	Set a sandstone,18x8x7 ins.,12 ins.in the ground,for ~~w~~ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,14 ins.dia.,bears S.14°32'E.,249 lks.dist..mkd.¼ S 16 B T.
	A pinon pine,5 ins.dia.,bears S.1°40'W.,251 lks.dist..mkd.¼ S 17 B T.
45.00	Bottom of hollow,40 ft.below spr,course E.
	Asc.
47.50	Top of spur,50 ft.above hollow,bears E.and W.
	Desc.
55.00	Wash,15 lks.wide,5 ft.deep,in bottom of canon,100 ft. below spur,course S.30°E.
	Asc.
60.00	Leave timber,bears E.and W.
80.00	Set a sandstone,16x8x6 ins.,11 ins.in the ground,for cor.of secs.8,9,16,and 17,mkd.with 4 notches on S.and 4 notches on E.edges;and raise a mound of stone,2 ft. base,1½ ft.high,W.ofcor.
	Land,mountainous.
	Soil,clay loam and gravelly ;2nd and 3rd rate.
	Timber,cedar and pinon pine and yellow pine.

Subdivision of T.3º S.,R.4 W.=Continued.

Chains	
	Undergrowth,oak,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	August 30,1908.
	August 31,1908:At 7 h 0 m a.m.,l.m.t.,I set off 37° 26'N. on the lat.arc;8° 42'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
	East on a random line bet. secs. 9 and 16.
40.00	Set a temp.¼ sec.cor.
80.10	Intersect N. and S. line at the cor. of secs.9,10, 15,and 16.
	Thence I run
	West on a true line bet. secs.9 and 16.
	Over mountianous land,through heavy timber .
	Desc.
.50	Bottom of canon 25 ft. below sec.cor.course S.
	Asc.
4.50	Top of spur,60 ft. above canon,bears N. and S.
	Desc.
8.00	Leave timber and enter dense undergrowth,bears N.and S.
12.50	Wash,20 lks.wide, 12 ft. deep.in hollow 50 ft. below spur,course SE.
	Asc.
13.50	Enter scattering timber,bears N. and S.
14.00	Begans steep asc.,bears NW. and SE.
19.00	Foot of perpendicular ledge,60 ft.,high,bears N. and S.
34.00	Leave timber,bears N. and S.
40.05	Set a sand stone 14x12x4 ins.,9 ins in the ground. for

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	½ sec.cor.mkd.¼ on N.face;and raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
57.30	Top of divide ridge bet.Crawford and Bake canons,200 ft. above hollow,bears N.10°W.and S.10°E.
	Desc. through timber.
70.00	Leave timber,bears N.and S.
73.00	Bottom of canon,200 ft.below ridge,course S.
	Asc.
80.10	The cor.of secs.8,9,16,and 17.
	Land,mountainous.
	Soil,sandy and clay loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.
	Exceptionally difficult to survey,80.10 chs.
	N.0°3'W.,bet.secs.8 and 9.
	Over mountainous land;through scattering timber and dense undergrowth.
	Desc.
2.50	Bottom of hollow,60 ft.below sec.cor.,course S.75°E.
	Asc.
25.00	Top of ridge,200 ft.above hollow,bears NW and SE.
	Desc.
40.00	Bottom of hollow,175 ft.below ridge,course SE.
	Set a sandstone,20x9x7 ins.,15 ins.in the ground,for ¼ sec.cor.,mkd.¼ on W.face;from which [illegible]
	Desc. A yellow pine,30 ins.dia.,bears N.22°35'W., 329 lks. dist..mkd.¼ S 8 B T.
	A yellow pine,24 ins.bears S.49°E.,162 lks.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	dist..mkd.¼ S 9 B T.
	Asc.
48.00	Top of spur,60 ft.above hollow,bears NW and SE.
	Desc.
56.40	Bottom of hollow,75 ft.below ridge,course S.55° E.
	Asc.
72.00	Top of ridge,100 ft.above hollow,bears N.30° W.and S.30° E.
	Desc.
78.00	Bottom of hollow,120 ft.below ridge,course S.20° E.
	Asc.
80.00	Set a sandstone,16x14x4 ins.,11 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;from which
	A yellow pine,30 ins.dia.,bears N.77° 15'E.,91 lks.dist..mkd.T 39 S R 4 W S 4 B T.
	An aspen,4 ins.dia. bears S.10° 55'E.,317 lks. dist..mkd.T 39 S R 4 W S 9 B T.
	A yellow,pine,30 ins.dia.,bears S.82° 25'W.,255 lks.dist..mkd.T 39 S R 4 W S 8 B T.
	An aspen,4 ins.dia.,bears N.69° 58'W.,245 lks. dist..mkd.T 39 S R 4 W S 5 B T.
	Land,mountainous.
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar and pinon pine and yellow pine and aspen.
	Undergrowth,oak,larb,service berry,and maple brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth 80.00 chs.
	Exceptionally difficult to survey,80.00 chs.
	From this cor.A post on the south bdy.of the Sevier Forest Reserve beras S.26° 55'W.,88 lks.dist.
	August 31,1908:At the noon hour the sky is overcast and solar observations are impossible.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	East,on a random line bet.secs.4 and 9.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N.and S.line,at 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 heavy timber and dense undergrowth.
	Asc.
1.00	Top of spur,10 ft.above sec.cor..,bears N.and S.
	Desc.
3.35	Bottom of hollow,30 ft.below spur,course S.
	Asc.
8.65	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
14.30	Bottom of hollow,40 ft.below spur,course S.
	Asc.
17.90	Top of ridge,40 ft.above hollow,bears N.and S.
	Desc.
25.50	Bottom of canon,150 ft.below ridge,course S.30° E.
	Asc.
40.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A cedar,8 ins.dia.,bears N.69° 35'E.,13 lks. dist..mkd.¼ S 4 B T.
	A cedar,16 ins.dia.. bears S.85° 20'W.,95 lks. dist..mkd.¼ S 9 B T.
	From this cor.A post on the south bdy.of the Sevier Forest Reserve bears N.23° 50'E.,43 lks.dist.
41.30	Top of ridge,600 ft.above canon,bears NW and N.80° E.
	Desc.
49.80	Bottom of canon,140 ft.below ridge,course SE.
	Asc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
54.00	Enter yellow pine timber,bears NE and SW.
66.90	Top of ridge,250 ft.above canon,bears N.and S. This is the divide between Crawford and Lake canons. Desc.
70.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
72.80	Top of ridge,50 ft.above hollow,bears N.and S.
	Desc.
80.00	The cor.of secs.4,5,8,and 9.
	Land,mountainous.
	Soil,clay and gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine and yellow pine .
	Undergrowth,oak,service berry and larb.
	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.
	For reasons already explained I run N.0° 3'W.,on a true line bet.secs.4 and 5.
	Over mountainous land;through dense undergrowth and heavy timber.
	Asc.
22.80	Top of ridge,600 ft.above sec.cor.,bears NW and SE.
	Desc.
40.00	Set a sandstone,16x10x6 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A yellow pine,30 ins.dia.,bears S.56°15'E.,93 lks.dist..mkd.¼ S 4 B T.
	A red pine,12 ins.dia.,bears N.68°15'W.,104 lks.dist..mkd.¼ S 5 B T.
42.45	Intersect N.bdy.of Tp.,5,45 chs.west of the cor.of secs. 31 and 32,heretofore described.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains | Set a sandstone,18x12x5 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;from which

A yellow pine,36 ins.dia.,bears S.14°35'E., 131 lks.dist..mkd.T 39 S R 4 W S 4 B T.

A red pine,14 ins.dia.,bears S.43°55'W.,80 lks.dist..mkd.T 39 S R 4 W S 5 B T.

Land,mountainous.

Soil,gravelly;3rd rate.

Timber,cedar and pinon pine and yellow pine and red pine.

Undergrowth,service berry,larb,oak,and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,42.43 chs.

Exceptionally difficult to survey,42.43 chs.

August 31,1908.

September 1,1908:At 7 h 0 m a.m.,l.m.t.,I set off 37°23' N.,on the lat.arc;8°20'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.5,6,31, and 32,heretofore described.on South Bdy.of Tp.

Note: On account of the S.bdy.of sec.32 being on a course of S.89°12'W. I will make the south half of the mile bet.secs.31 and 32, 41.12 chs.to make up for that southing , and to keep the remainder of the work regular.
N.0°03'W.,bet.secs.31 and 32.
Over mountainous land;through dense undergrowth.

Asc.

14.00 | Enter heavy timber,bears E.and W.

20.00 | Top of steep ascent,bears E.and W.

Asc.more gradually.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
41.12	Set a sandstone,16x12x4 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A pinon pine,6 ins.dia.,bears E.22° 30'E.,143 lks.dist..mkd.¼ S 32 B T.
	A pinon pine,8 ins.dia.,bears S.4° 25'W.,152 lks.dist..mkd.¼ S 31 B T.
43.20	Leave heavy and enter scattering timber,bears E.and W.
48.15	Road to Skumpah,bears N.20° E.and S.20° W.
64.30	Top of ridge,250 ft.above sec.cor.,bears N.70° W.and S.70° E.
	Desc.
81.12	Set a sandstone,18x10x5 ins.,12 ins.in the ground,for cor.of secs.29,30,31,and 32,mkd.with 1 notches on S.and 5 notches on E.edges;and raise a mound of stone,2 ft. base,1½ fthigh,W.of cor.
	Land,mountainous .
	Soil,gravelly loam;2nd rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,buck brush,and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,81.12 chs.
	Exceptionally difficult to survey,81.12 chs.
	East ,on a random line bet.secs.29 and 32.
40.00	Set temp.¼ sec.cor.
80.44	Intersect N.and S.line,at the cor.of secs.28,29,32,and 33.
	Thence I run
	West,on a true line bet.secs.29 and 32.
	Over mountainous land;through heavy timber and dense

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	undergrowth.
	Asc.gradually.
4.00	Top of ridge,20 ft.above cor.,bears N.30°W.and S.30° E.
	Desc.
16.50	Begin abrupt descent,bears NW and SE.
28.00	Leave heavy and enter scattering timber,bears N.and S.
29.80	Wash,10 lks.wide,3 ft.deep,in bottom of canon,450 ft. below ridge,course SE.
	Asc.
32.00	Road to Skumpah,bears N.10°W.and S.10°E.
40.22	Set a sandstone,18x14x8 ins.,12 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,14 ins.dia.,bears S.68°35'W.,106 lks.dist..mkd.¼ S 32 B T.
	A cedar,20 ins.dia.,bears N.79°W.,230 lks. dist..mkd.¼ S 29 B T.
40.25	Top of ridge,150 ft.above canon,bears N.20°W.and S.20° E.
	Desc.
52.00	Bottom of steep descent [illegible],bears N.30°W.and S.30° E.
	Desc. gradually .
54.00	Bottom of canon,50 ft.below ridge,course S.30°E.
	Asc.
56.00	Begin abrupt ascent,bears N.30°W.and S.30°E.
80.44	The cor.of secs.29,30,31,and 32.
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar,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,80.44 chs.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Exceptionally difficult to survey,80.44 chs.
	September 1,1908:At the noon hour the sky is overcast and solar observations are impossible.
	Knowing that the line bet.secs.30 and 31 will not close within limits,I run
	West,on a true line bet.secs.30 and 31.
	Over mountainous land;through dense undergrowth and scattering timber .
	Asc.
7.00	Top of ridge,75 ft.above cor.,bears N.and S.
	Desc.
25.50	Begin steep descent,bears NE and SW.
	Enter heavy timber,bears NE and SW.
36.00	Leave heavy and enter scattering timber,bears N.and S.
39.40	Bottom of hollow,150 ft.below ridge,course S.20° W.
	Asc.
40.00	Set a sandstone,15x7x5 ins.10 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.
50.00	Enter heavy timber,bears N.and S.
51.20	Top of ridge,150 ft.above hollow,bears N.56° W.and S.55° E.
	Desc.
56.00	Bottom of canon,100 ft.below ridge,course S.20° E.
	Asc.
70.50	Top of ridge,200 ft.above canon,bears N.20° W.and S.20° E.
	Desc.
80.00	Set a conglomerate stone,14x12x6 ins.,10 ins.in the ground,for 1/16 sec.cor.,mkd.1/16 on N.face;from which
	A cedar,4 ins.dia.,bears N.81° 30'W.,105 lks.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	dist.;mkd.1/16 S 30 B T.
	A cedar,6 ins.dia.,bears S.75°25'W.,68 lks.
	dist..mkd. 1/16 S 31 B T.
80.50	Leave heavy and enter scattering timber ,bears N.and S.
80.75	Bottom of hollow,175 ft.below ridge,course SE.
	Asc.
88.50	Top of ridge,100 ft.above hollow,bears NW and SE.
	Desc.
103.15	Creek,1 lk.wide,1 in.deep,in wash,20 lks.wide,10 ft. deep,in bottom of Slide Canon,150 ft.below ridge,course S.
	Asc.
114.00	Enter heavy timber,bears N.and S.
120.00	Set a sandstone,18x10x5 ins.,12 ins.in the ground,for 1/16 sec.cor.,mkd. 1/16 on N.face;from which
	A pinon pine,16 ins.dia.,bears N.16°E.,59 lks.
	dist..mkd. 1/16 S 30 B T.
	A cedar,10 ins.dia.,bears S.25°W.,31 lks.
	dist..mkd. 1 /16 S 31 B T.
134.88	Intersect W.bdy.of Tp.,90 lks.North of the cor.of secs. 25,30,31,and 36,heretofore described .
	Set a sandstone,18x12x7 ins.,12 ins.in the ground,for closing cor.of secs.30 and 31,mkd. C C on E.,with 5 grooves on N.and 1 groove on S.faces;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	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 pinon pine.
	Undergrowth,oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,134.88 chs.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains

Exceptionally difficult to survey,134.88 chs.

September 1,1908.

September 2,1908:At 7 h 0 m a.m.,l.m.t.,I set off 37° 23'N.,on the lat.arc;7° 58'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 29,30,31,and 32.

Thence I run

N.0° 3'W.,bet.secs.29 and 30.

Over mountainous land;through scattering timber and dense undergrowth.

Desc.

10.70 Bottom of hollow,150 ft.below sec.cor.,course SE.

Asc.

13.00 Begin steep ascent,bears NW and SE.

19.00 Top of spur,150 ft.above hollow,bears NW and SE.

Desc.

25.75 Bottom of hollow,30 ft.below spur,course S.60° E.

Asc.

29.00 Top of spur,75 ft.above hollow,bears E.and W.

Desc.

31.00 Bottom of hollow,30 ft.below spur,course S.60° E.

Asc.

40.00 Set a sandstone,16x10x6 ins.,11 ins.in the ground, for ¼ sec.cor..mkd.¼ on W.face;from which

A cedar,12 ins.dia.,bears S.25° 15'E.,43 lks. dist..mkd.¼ S 29 B T.

A pinon pine,14 ins.dia.,bears N.15° 12'W.,55 lks.dist..mkd.¼ S 30 B T.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
41.00	Top of ridge,100 ft.above cor,bears NW and SE.
	Desc.
48.20	Bottom of canon,100 ft.below ridge,course SE.
	Creek,1 lk.wide,1 in.deep,in bottom .
	Asc.
51.00	Top of spur,40 ft.above canon,bears N.20°W.and S.20°E.
	Desc.
56.20	Bottom of hollow 40 ft.below spur,course S.30°E.
	Asc.
76.50	Top of divide ridge,500 ft.above hollow,bears NW.and SE.
	Desc.
80.00	Set a sandstone,26x14x10 ins.,19 ins.in the groundfor cor.of secs.19,20,29,and 30,mkd.with 2 notches on S.and 5 notches on E.edges;and raise a mound of stone,2 ft. base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th 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. 20 and 29.
40.00	Set temp.¼ sec.cor.
80.50	Intersect.N.and.S.line,at the cor.of secs.20,21,28,and 29.
	Thence I run
	West,on a true line bet.secs.20 and 29.
	Over mountainous land;through heavy timber and dense

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	undergrowth.
	Desc.
17.50	Leave heavy timber ,bears N.and S.
18.50	Road to Skumpah,bears N.20° W.and S.20° E.
28.00	Foot of steep descent ,bears N.and S.
	Enter bottom of beadow canon,300 ft.below cor.
28.40	Pole fence,bears N.and S.;
	Enter enclosure occupied by Charles Lewis.
	Leave sage and oak brush and enter dense willows and rose bushes,bears N.and S.
32.40	Creek,3 lks. wide,3 ins.deep,course S.
37.00	Pole fence,bears NW and SE.
	Leave enclosure,bears NW and SE.
	Leave willows and rose bushes and enter dense oak and sage brush.
	Leave canon bottom,bears NW and SE.
	Asc.
38.75	Road to Skumpah,bears NW and SE.
40.25	Set a conglomerate stone,18x10x6 ins.,12 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.
47.00	Begin steep ascent,bears NW and SE.
54.80	Top of knoll,100 ft.above canon,
	Desc.
57.50	Bottom of hollow,15 ft.below knoll,course NE
	Asc.
80.50	The cor.of secs.19,20,29,and 30,300 ft.above hollow.
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar and pinon pine.
	Undergrowth,oak,sage,rose bushes,and willows.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.50 chs.
	Exceptionally difficult to survey,80.50 chs. .

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	September 2,1908:At this cor.I set off 7° 52'N.,on the decl.arc;and at 11H 59 m a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is 37° 24'N.,which is the proper lat.nearly.
	[illegible]
	For reasons already explained.
	West,on a true line bet.secs.19 and 30.
	Over mountainous land; through dense undergrowth and scattering timber .
	Asc.
10.89	Top of divide ridge,100 ft.above cor.,bears NW and SE.
	Desc.
20.00	Bottom of hollow,125 ft.below ridge,course S.20° E.Asc.
22.50	Enter heavy timber,bears N.and S.
25.00	Top of ridge,150 ft.above hollow,bears N.and S.
	Desc.
40.00	Set a sandstone,16x10x8 ins.,11 ins.in the ground,for ¼ sec.cor..mkd. ¼ on N.face;from which
	A pinon pine,14 ins.dia.,bears N.11° W.,67 lks.dist..mkd.¼ S 19 B.T.
	A cedar,18 ins.dia.,bears S.7° E.,77 lks. dist..mkd.¼ S 30 B T.
42.50	Leave heavy and enter scattering timber,bears N.and S.
	Begin abrupt descent,bears N.and S.
53.50	Wash,10 lks.wide,6 ft.deep,in bottom of hollow,150 ft. below ridge,course S.
	Asc.
60.00	Top of spur,80 ft.above hollow,bears N.and S.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
74.90	Bottom of canon,100 ft.below spur,course S.60° E.
	Asc.
80.00	Set a sandstone,18x6x5 ins.,12 ins.in the ground,for 1/16 sec.cor..mkd. 1/16 on N.face;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
110.00	Top of ridge,250 ft. above canon,bears N.and S.
	Desc.
120.00	Set a sandstone,14x10x6 ins.,9 ins.in the ground,for 1/16 sec.cor.,mkd.1/16 on N.face;from which
	A yellow pine,6 ins.dia.,bears N.40° 15'E.,49 lks.dist..mkd. 1/16 S 19 B T.
	A yellow pine,25 ins.dia.,bears S.9° E.,135 lks.dist..mkd. 1/16 S 30 B T.
124.80	Begin abrupt descent over ledges,bears N.and S.
134.89	Intersect W.bdy.of Tp.,90 lks.N.,of the cor.of secs. 19,24,25,and 30,heretofore described .
	Set a sandstone,30x8x6 ins.,22 ins.in the ground,for closing cor.of secs.19 and 30,mkd.C C on E.,with 4 grooves on N.and 2 grooves on S.faces;and raise a mound of stone,2 ft.base,1½ ft.high,E.of cor.
	Note:I destroy all marks on the cor.of secs.19,24,25,and 30 which pertain to secs.19 and 30.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,134.89 chs.
	Exceptionally difficult to survey,134.89 chs.

September 2,1908.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	September 3,1908:At 6 h 59 m a.m.,l.m.t.,I set off 37° 24' N.,on the lat.arc;7° 36'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.0° 3'W.,bet.secs.19 and 20.
	Over mountainous land;through dense undergrowth.
	Desc.
5.00	Bottom of swale,50 ft.below cor.,course E.
	Asc.
12.00	Top of spur,25 ft.above spur,bears E.and W.
	Desc.
40.00	Set a sandstone,30x12x8 ins.,22 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.
41.00	Bottom of hollow,200 ft.below spur,course E.
	Asc.
42.50	Top of spur,100 ft.above hollow,bears E.and W. Desc.
44.00	Desc.abruptly,bears NW and SE.
44.95	Creek,3 lks.wide,6 ins.deep,course SE.
45.00	Pole fence,bears NW and SE.
	Enter S.L.Lewis's cultivated land ,bears NW and SE.
	Enter bottom of Meadow Canon,bears NW and SE.
58.00	Pole fence,bears N.75° W.and S.75° E.
	Leave cultivated land,bears N.75° W.and S.75° E.
60.00	Leave Meadow canon,bears N.75° W.and S.75° E.
	From this point S.L.Lewis's house bears S.60° W.,4.00 chs. dist. His corral,bears S.25° W.,2.00 chs.dist.
	Asc.
79.00	Top of spur,125 ft.above canon,bears E.and W.
	Desc.
80.00	Set a sandstone,14x10x6 ins.,9 ins.in the ground,for cor.of secs.17,18,19,and 20,mks.with 3 notches on S.,

Subdivision T.39 S.,R.4 W.-Continued.

Chains	
	and 5 notches on E.edges;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land ,mountainous.
	Soil,gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,service berry,and sage brush.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 67.00 chs.
	Exceptionally difficult to survey,67.00 chs.
	East,on a random line bet.secs.17 and 20.
40.00	Set temp.¼ sec.cor.
80.40	Intersect N.and S.line,14 lks.S.of the cor.of secs. 16,17,20,and 21.
	Thence I run
	S.89° 54'W.,on a true line bet.secs.17 and 20.
	Over mountainous land;through dense undergrowth and scattering timber .
	Desc.
14.25	Creek,1 lk.wide,1 in.deep,in bottom of wash,8 lks.wide, 12 ft.deep,course S.30° E.,in bottom of hollow,70 ft. below sec.cor.,course S.30° E. (Crawford Canon.)
	Asc.
25.00	Enter heavy timber,bears N.and S. Asc.abruptly,bears N.andS.
39.00	Spur,200 ft.above hollow,bears N.20° W.and S.20° E. Desc.
40.20	Set a sandstone,24x8x4 ins.,18 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A pinon pine,16 ins.dia..bears N.56° 30'E.,22 lks.dist..mkd.¼ S 17 B T.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	A pinon pine,10 ins.dia.,bears S.42° E.,40 lks.dist..mkd.$\frac{1}{4}$ S 20 B T.
41.00	Bottom of draw,15 ft.below spur,course S.
	Asc.
47.80	Top of spur,175 ft.above draw,bears N.and S.
	Desc.
50.40	Bottom of hollow,80 ft.below spur,course S.
	Asc.
62.00	Top of spur,175 ft.above hollow,bears N.and S.
	Desc.
71.00	Begin rapid descent,bears N.and S.Leave timber,bears N.&S.
80.40	The cor.of secs.17,18,19,and 20.
	Land,mountainous .
	Soil,gravelly loam and rocky;2nd and 4th rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,oak,serviceberry,sage,and buck brush.
	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.
	September 3,1908:At this cor.I set off 7° 30'N.,on the decl.arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 25'N.,which is the proper lat.nearly.

For reasons already explained

I run

West,on a true line bet.secs. 18 and 19.

Over mountainous land;through dense undergrowth .

Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
12.00	Road to Skumpah,bears NW and SE.
14.00	Pole fence,bars NW and SE.
14.90	Wash,15 lks.wide,15 ft.ft.deep,in bottom of hollow,100 ft.below cor.course SW.
	Enter bottom of Meadow canon,bears NW and SE.
15.00	Wire fence,bears NE and SW.
20.00	Wash,10 lks.wide,3 ft.deep,course S.
28.25	Creek,2 lks.wide,1 in.deep,course SE.
33.00	Wire fence,bears NW and SE.
	Enter yellow pine timber,bears NW and SE.
35.80	Leave meadow canon,bears NW and SE.
	Asc.
40.00	Set a sandstone,16x14x5 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,14 ins.dia.,bears N.28° 45'W.,116 lks.dist..mkd.¼ S 18 B T.
	A yellow pine,12 ins.dia.,bears S.21° 40'E.,60 lks.dist..mkd.¼ S 19 B T.
52.50	Leave yellow pine timbr,bears N.and S.
73.00	A knoll bears South about 2.00 chs.dist.
	Desc.
80.00	Set a sandstone,24x12x 5 ins.,18 ins.in the ground,for 1/16 sec.cor.,mkd.1 /16 on N.face;from which
	A yellow pine,30 ins.dia.,bears N.57° 15'W.,360 lks.dist..mkd. 1 /16 S 18 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
85.00	Bottom of hollow,75 ft.below 1 /16 sec.cor.,course SW.
	Asc.
101.20	Begin abrupt accent over ledges,bears N.15° E.and S.15° W.
104.20	Leave ledges,bears N.15° E.and S.15° W.
115.20	Bottom of hollow,75 ftbelow ledges,course SW.
	Asc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains

117.00 Top of spur,50 ft.above hollow,bears NE and SW.
Desc.

120.00 Set a sandstone,24x10x4 ins.,18 ins.in the ground,for 1/16 sec.cor.,mkd.1 /16 on N.face; from which

A pinon pine,10 ins.dia.,bears N.69° 10'E.,125 lks.dist..mkd. 1/16 S 18 B T.

A cedar,7 ins.dia.,bears S.66° 10'E.,253 lks. dist..mkd. 1/16 S 19 B T.

134.96 Intersect W.bdy.of Tp.,100 lks.N.of the cor.of secs.13,18, 19,and 24,heretofore described.

Set a sandstone,20x8x6 ins.,15 ins.in the ground,for closing cor.of secs.18 and 19,mkd.C C on E.,with 3 grooves on N.,and S.,faces;and raise a mound of stone, 2 ft.base,1½ ft.high,E.of cor.

Note:I destroy all marks on the cor.of secs.13,18,19, and 24,which pertain to secs.18 and 19.

Land,mountainous .

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

Timber,cedar,pinon pine,and yellow pine.

Undergrowth,oak,service berry,larb,and buck brush.

Good grass for grazing.

Mountainous or heavily timbred land,or land covered with dense undergrowth,134.96 chs.

Exceptionally difficult to survey,134.96 chs.

September 3,1908.

September 4,1908:At 6 h 59 m a.,m.l.m.t.,I set off 37° 25' N.,on the lat.arc;7° 14'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.17,18,19,and 20.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	and 20.
	Thence I run
	N.0° 3'W.,bet.secs.17 and 18.
	Over mountainous land;through dense undergrowth . .
	Desc.
5.00	Bottom of hollow,60 ft.below sec.cor.,course S.80°W.
	Asc.
10.00	Top of spur,40 ft.above hollow,bears N.80°E.and S.80°W.
	Desc.
20.00	Enter heavy yellow timber,bears E.and W.
20.95	Bottom of hollow.,75 ft.below spur,course S.75°W.
	Asc.
29.00	Top of spur,200 ft.above hollow,bears E.and W.
	Desc.
39.00	Bottom of hollow,150 ft.below spur,course S.80°W
	Asc.
40.00	Seta sandstone,30x10x7 ins.,22 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A cedar,13 ins.dia.,bears N.85°25'W.,56 lks. dist..mkd. ¼ S 18 B T.
	A cedar,19ins.dia.,bears S.75°15'E.,81 lks. dist..mkd.¼ S 17 B T.
	Note:On Jan.8,1909,this cor.was moved 12 lks.west,under the direction of U.S.Transitman Andrew Nelson;and the above description of the cor.is now the true description.
40.70	Top of spur,25 ft.above cor.,bears E.and W.
	Desc.
48.50	Bottom of hollow,75 ft.below spur,course S.80°W.
	Asc.
55.00	Top of ridge,200 ft.above hollow,bears N.10°W.and S.10° E.
	Desc.
75.50	Bottom of Crawford Canon,325 ft.below ridge,course

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	S.60° E.
	Asc.
80.00	Set a sandstone,16x8x6 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;and raise a mound of stone, 2 ft.base,1½ ft.high,W.of cor.
	Land,mountainous .
	Soil,gravelly3rd 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.
	N.89° 54'E.,on a random line bet.secs.8 and 17 .
40.00	Set temp.¼ sec.cor.
80.50	Intersect N.and S.line,19 lks.N.of the cor.of secs. 8,9.16,and 17.
	Thence I run
	N.89° 58'W.,on a true line bet.secs.8 and 17.
	Over mountainous land;through dense undergrowth.
	Asc.
5.30	Top of spur,150 ft.above cor.,bears N.30° W.and S.30° E.
	Desc.
25.60	Enter yellow pine and fir timber,bears N.and S.
27.60	Bottom of canon,200 ft.below spur,course S.70° E.
	Asc.
28.80	Top of spur,70 ft.above canon,bears N.70° W.and S.70° E.
	Desc.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
34.00	Enter heavy aspen and maple timber,bears NW and SE.
35.00	Bottom of canon,150 ft.below spur,course S.70° E.
	Asc.
40.25	Set a quartzite stone,18x12x8 ins.,12 ins.in the ground, for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,10 ins.dia.,bears N.5 lks.dist. mkd.¼ S 8 B T.
	No other trees within limits;raise a mound of stone, 2 ft.base,1½ ft.high,N.of cor.
45.00	Top of ridge,200 ft.above canon,bears N.and S.
	Desc.
48.50	Bottom of hollow,100 ft.below ridge,course S.5° E.
	Asc.
55.50	Top of ridge,150 ft.above hollow,bears N.and S. Desc.
56.00	Leave aspen and maple timber,bears N.and S.Enter cedars.
72.00	Begin steep descent,bears N.20° W.and S.20° E.
80.50	The cor.of secs.7,8,17,and 18.
	From this cor.a post on the south bdy.of the Sevier Forest Reserve bears S.62° 53'W.,196 lks. dist.
	Land,mountainous .
	Soil,gravelly and rocky;3rd and 4th rate.
	Timber,cedar,pinon pine,yellow pine,fir,aspen,and maple.
	Undergrowth,oak,service berry,larb,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.50 chs.
	Exceptionally difficult to survey.80.50 chs.
	September 4,1908:At this cor.I set off 7° 08'N.,on the decl.arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 37° 26'N.,which is the proper lat.nearly .

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	For reasons already explained I run West,on a true line bet.secs. 7 and 18. Over mountainous land;through dense undergrowth. Desc.
2.50	Bottom of Crawford Canon,125 ft.below sec.cor.,course S.30° E. Asc.
8.80	Top of ridge,400 ft.above canon,bears N.40° W.and S.40° E. Desc.
40.00	Set a sandstone,14x8x6 ins.,9 ins.in the ground,for ¼ sec.cor..mkd .¼ on N.face;from which A yellow pine,24 ins.dia.,bears N.63° W.,254 lks.dist..mkd.¼ S 7 B T. A yellow pine,30 ins.dia.,bears S.87° W.,310 lks.dist..mkd.¼ S 18 B T. and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor.
46.00	Bottom of canon,150 ft.below ridge,course S.15° W. Asc.
59.20	Top of spur,250 ft.above canon,bears N.and S. Desc.
71.50	Bottom of canon,25 ft.below spur,course SW. A creek,1 lk.wide,1 in.deep,in bottom of this canon. Asc.
79.50	Top of spur,30 ft.above canon,bears NE and SW. Desc.
80.00	Set a sandstone,24x10x8 ins.,18 ins.in the ground,for 1/16 sec.cor.,mkd. 1/16 on N.face;from which A cedar,10 ins.dia,bears N.49° 50' W.,127 lks. dist..mkd. 1/16 S 7 B T. A cedar,6 ins.dia.,bears S.55° 40' W., 79 lks. dist..mkd. 1/16 S 18 B T.
88.00	Road to Skumpah,bears NW and SE.
91.50	Wash,7 lks.wide,2 ft.deep,in bottom of Meadow Canon,

Subdivision of T. 39S., R. 4 W.-Continued.

Chains	
	30 ft.below spur,course SE. Asc.
92.00	Enter heavy yellow and red pine timber ,bears NW and SE.
100.75	Creek,1 lk.wide,1 in.deep,in hollow,course S.75° E.
	Asc.
120.00	Set a quartzite stone,16x8x7 ins.,11 ins.in the ground, for 1/16 sec.cor.,mkd.1 /16 on N.face;from which
	A fir,8 ins.dia.,bears N.76° 40'W.,97 lks. dist..mkd.1 /16 S 7 B T.
	A balsam,20 ins.dia.,bears S.81° 25'W.,73 lks. dist..mkd. 1/16 S 18 B T.
130.00	Top of spur,100 ft.above canon,bears N.80° W.and S.80° E.
	Desc.
134.92	Intersect W.bdy.of Tp.,110 lks.N. of the cor.secs.7,12, 13, and 18,heretofore described.
	Set a quartzite stone,16x8x4 ins.,11 ins.in the ground , for closing cor.of secs.7 and 18,mkd.C C on E.,with 2 grooves on N.and 4 grooves on S.faces;from which
	A red pine,16 ins.dia.,bears N.66° 20'E.,86 lks. dist..mkd. T.39 S R 4 W S 7 B T.
	A red pine,20 ins.dia.,bears S.82° 10'E.,84 lks. dist.,mkd.T 39 S R 4 W S 18 B T.
	Note:I destroy all marks on the cor.of secs.7,12,13, and 18,which pertain to secs.7 and 18.
	Land,mountainous .
	Soil,gravelly and rocky;3d and 4th rate.
	Timber,cedar,pinon pine,fir,balsam,and yellow pine.
	Undergrowth,oak,service berry,sage,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,134.92 chs.
	Exceptionally difficult to survey,134.92 chs.

September 4,1908.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	September 5,1908:At 6 h 59 m a.m.,l.m.t.,I set off 37° 26' N.,on the lat.arc;6° 52'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
	N.0° 3'W.,bet.secs.7 and 8.
	Over mountainous land ;through dense undergrowth and scattering timber .
	Asc.
9.50	Top of ridge,200 ft.above cor.,bears NW and SE.
	Desc.
9.75	Enter heavy yellow pine timber,bears NW and SE.
15.00	Head of hollow,40 ft.below ridge,course E.
	Asc.
30.00	Top of spur,80 ft.above hollow,bears E.and W.
	Leave heavy and enter scattering timber,bears E.and W.
	Desc.
34.75	Bottom of hollow,40 ft.below spur,course E.
	Asc.
40.00	Set a sandstone,16x12x7 ins.,11 ins.in the ground,for ¼ sec.cor..mkd.¼ on W,face;from which
	A yellow pine,8 ins.dia.,bears S.56° E.,45 lks dist..mkd.¼ S 8 B T.
	A yellow pine,20 ins.dia.,bears N.84° W.,114 lks.dist..mkd.¼ S 7 B T.
45.00	Top of spur,60 ft.above hollow,bears E.and W.
	Enter heavy timber,bears E.and W.
	Desc.
52.00	Bottom of hollow,50 ft.below spur,course E.
	Asc.
56.00	Top of spur,70 ft.above hollowbears N.60° W.and S.60° E.
	Desc.
66.00	Head of canon,50 ft.below spur,course SE.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
80.00	Set a porphyry stone,16x12x4 ins.,11 ins.in the ground, for cor.of secs.5,6,7,and 8,mkd.with 5 notches on S.,and E.edges;from which
	A red pine,16 ins.dia.,bears N.85°E.,103 lks. dist..mkd.T 39 S R 4 W S 5 B T.
	A red pine,7 ins.dia.,bears S.48°E.,83 lks. dist..mkd.T 39 S R 4 W S 8 B T.
	A red pine,10 ins.dia.,bears S.9°30'W.,37 lks.dist..mkd.T 39 S R 4 W S 7 B T.
	A red pine,30 ins.dia.,bears N.65°W.,8 lks. dist..mkd.T 39 S R 4 W S 6 B T.
	Land,mountainous .
	Soil,gravelly and clay loam androcky;2nd and 4th rate.
	Timbr,cedar,pinon pine,red pine,ad yellow pine.
	Undergrowth,oak,service berry,sage,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.
	S.89°58'E.,on a random line bet.secs.5 and 8 .
40.00	Set temp.¼ sec.cor.
80.50	Intersect N.and S.line,12 lks.S.of the cor.of secs. 4, 5, 8,and 9.
	Thence I run
	S.89°47'W.,on a true line bet.secs.5 and 8 .
	Over mountainous land;through heavy timber and dense undergrowth.
	Desc.
1.50	Creek,1 lk.wide,1 in.deep,in hollow,20 ft.below cor., course S.30°E.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Asc. abruptly.
5.00	Top of abrupt ascent,bears NW and SE.
	Asc.gradually.
14.00	Top of ridge,150 ft.above hollow,bears NW and SE.
	Desc.
16.00	Bottom of hollow,30 ft.below ridge,course S.
	Asc.
18.60	Top of ridge,30 ft.above hollow,bears N.and S.
	Desc.
22.50	Bottom of hollow,30 ft.below ridge,course SE.
	Asc.
39.50	Top of ridge,900 ft.above hollow,bears N.and S.
	Desc.
40.25	Set a porphyry stone,15x12x4 ins.,10 ins.in the ground, for ¼ sec.cor..mkd.¼ on N.face;from which
	A yellow pine,8 ins.dia.,bears N.16° 55'E.,17 lks.dist..mkd.¼ S 5 B T.
	A yellow pine,12 ins.dia.,bears S.33° 30'E.,44 lks.distt.,mkd. ¼ S 8 B T.
53.70	Bottom of hollow,80 ft.below ridge,course N.
	Asc.
58.20	Top of ridge,50 ft.high,bears N.and S.
	Desc.
65.00	Bottom of hollow,80 ft.below ridge,course S.
	Asc.
72.00	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
80.50	The cor.of secs.5,6,7,and 8.
	Land,mountainous .
	Soil,gravelly ;3rd rate.
	Timber,cedar,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,buck bursh,and apen.
	Good grass for grazing.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Mountainous land,or land covered with dense undergrowth, 80.50 chs.
	Exceptionally difficult to survey,80.50 chs.
	September 5,1908:At the noon hour the sky is overcast and solar observations are impossible.
	For reasons already explained I run West,on a true line bet.secs.6 and 7.
	Over mountainous land;through heavy timber,and scattering undergrowth.
	Desc.
.60	Bottom of hollow,40 ft.below sec.cor.,course S.10° W.
	Asc.
5.30	Top of ridge,130 ft.above hollow,bears N.and S.
	Desc.
11.70	Bottom of hollow,60 ft.below ridge,course S.20° E.
	Asc.
27.60	Top of ridge,600 ft.above hollow,bears N.30° W.and S.30° E.
	Desc.
38.70	Bottom of hollow,150 ft.below ridge,course S.
	Asc.
40.00	Set a porphyry stone,18x8x4 ins.,12 ins.in the ground, for ¼ sec.cor..mkd.¼ on N.face;from which
	A red pine,30 ins.dia.,bears N.26° 25'E.,33 lks.dist..mkd.¼ S 6 B T.
	A red pine,4 ins.dia.,bears S.49° 35'E.,36 lks dist..mkd.¼ S 7 B T.
42.20	Top of ridge,100 ft.above hollow,bears N.and S.
	Desc.
44.30	Head of hollow,80 ft.below ridge,course SE.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Asc.
55.20	Top of ridge,200 ft.above hollow,bears N.5° E.and S.5° W.
	Desc.
70.00	Bottom of hollow,100 ft.below ridge,course S.
	Asc.
80.00	Set a limestone,18x10x6ins.,12 ins.in the ground,for 1/16 sec.cor.,mkd.1/16 on N.face;from which
	A pine,30 ins.dia.,bears N.33° E.,70 lks. dist..mkd.1/16 S 6 B T.
	A spruce,7 ins.dia.,bears S.37° E.,65 lks. dist..mkd. 1/16 S 7 B T.
84.00	Top of ridge,125 ft.above hollow,bears N.50° E.and S.60° W.
	Desc.
101.30	Road,bears N.and S. Road to Skumpah.
	Bottom of canon,150 ft.below ridge,course N.
	Asc.
115.50	Top of ridge,125 ft.abovecanon,bears N.and S.
	Desc.
120.00	Set a porphyry stone,18x12x6 ins.,12 ins.in the ground, for.1/16 sec.cor..mkd.1/16 on N.face;from which
	A spruce,14 ins.dia.,bears N.35° W.,39 lks. dist..mkd. 1/16 S 6 B T.
	A spruce,8 ins.dia.,bears S.1° W.,28 lks. dist..mkd. 1/16 S 7 B T.
134.70	Intersect W.bdy.of Tp.,100 lks.North of the cor.of secs. 1,6,7,and 12,heretofore described.
	Set a porphyry stone,20x12x6 ins.,15 ins.in the ground, forclosing cor.of secs.6 and 7,mkd.C C on E.,with 1 groove on N.,and 5 grooves on S.faces;from which
	A redpine,10 ins.dia.,bears N.29° 50'E.,17 lks.dist..mkd. T 39 S R 4 W S 6 B T.
	A red pine,6 ins.dia.,bears S.41° 05'E.,25 lks.dist..mkd. T 39 S R 4 W S 7 B T.

Subdivision of T.39 S.,R.4 W.-Continued.

Chains	
	Note:I destroy all marks on the cor.of secs.1,6,7,and 12,which pertain to secs.6 and 7 .
	Land,mountainous .
	Soil,gravelly and clay loam;2nd rate.
	Timber,cedar,pinon pine,red pine,and yellow pine.
	Undergrowth,oak,service berry,larb,and buck brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,134.70 chs.
	Exceptionally difficult to survey,134.70 chs.
	For reasons already explained
	I run
	N.0° 3'W.,on a true line bet.secs.5 and 6.
	Over mountainous land,through heavy timber .
	Asc.
2.00	Bottom of hollow, 20 ft.above sec.cor.,course S.20°W.
	Asc.abruptly.
19.50	Top of ridge,300 ft.above sec.cor.,bears N.80°W.and SE.
	Desc.
26.50	Head of hollow,200 ft.below ridge,course E.
	Asc.
40.00	Set a sandstone,12x12x5 ins.,8 ins.in the ground,for ¼ sec.cor..mkd.¼ on W.face;from which
	A red pine,10 ins.dia.,bears N.81° 45'E.,56 lks.dist..mkd.¼ S 5 B T.
	A red pine,15 ins.dia.,bears N.48° 50'W.,21 lks. dist..mkd.¼ S 6 B T.
42.82	Intersect N.bdy.of Tp.,5.79 chs.,W.of the 1/16 sec.cor. on south bdy.of sec.31,heretofore described.
	Set a porphyry stone,12x12x4 ins.,8 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

Subdivision of T.39 S.,R.4 W.-Continued.

Chains

A yellow pine,20 ins.dia.,bears S.71° 50'E.,72 lks.dist..mkd.T 39 S R 4 W S 5 B T.

A red pine,16 ins.dia.,bears S.11° 45'W.,114 lks.dist..mkd.T 39 S R 4 W S 6 B T.

Land,mountainous .

Soil,gravelly and clay loam;2nd rate.

Timber,cedar,pinon pine,red pine,and yellow pine.

Good grass for grazing.

Mountainous or heavily timbered land,42.82 chs.

Exceptionally difficult to survey,42.82 chs.

September 5,1908.

GENERAL DESCRIPTION.

This township is all mountainous land .The ridges have a general NW and SE.trend and quite steep and rugged. The country slopes southeasterly and northerly from the pink cliffs which form a part of a high ridge crossing the northwest corner of the township.These pink cliffs cap the highest parts of the township and are the most recent,geologically ,of any formation in the township.They are characteristic in color and formation being of a bright pink color,and of a porphyry character .

The canons are deep and narrow,but in some places are wide enough for cultivation.

The township supports an excellent growth of good grasses.

Subdivision of T.39 S.,R.4 W.-Concluded.

The prevailing timber in the southern part is cedar and pinon pine.But is gradually replaced by yellow and red pine in the higher and northern parts.

The township is exceptionally well watered and is subject to heavy rains induced by clouds gathering about the pink cliffs .

The soil varies from clay and gravelly loam.2nd rate,to gravelly and rocky;3rd and 4th rate.

There is no mineral in the township.

George Greenhaugh has a fenced enclosure of about 10 acres ,value of improvements about $50.00;in sec.11.

Frank Hamlin has an enclosure of about 7 acres in secs. 13 and 14,value of improvements $50.00 .

S.L.Lewis has a house and corral,and fenced enclosure of about 160.00 acres,in secs.19 and 20,value of improvements $500.00 .

Charles Lewis has a fenced enclosure of about 100 acres, in secs.20 and 29.Value of improvements $75.00 .

September 5,1908.

Leo A. Snow.

U.S.Deputy Surveyor.

BOOK A-359

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, an

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 "U", *Chainman.*

Tp. 40 S., R. 10½W.

....., *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.

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 "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. 39 South, Range No. 9 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.

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

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4—679. Filed 1909.

BOOK A-359
K.

W.S.H.

FIELD NOTES

R.F.B.

OF THE SURVEY OF THE

FIRST STANDARD PARALLEL SOUTH

THROUGH

RANGE 6 EAST

AND

RESURVEY THROUGH RANGE 5 EAST

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Frederick W. Hanson, Compassman for Andrew P. Hanson, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *1905*

Survey commenced August 24, *1909,*

Survey completed May 7, *1910.*

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	High	Low
R 5 E.	2-78-90	2-38-23
R 6 E.	4 02 93	closing 6-72

BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

1909:	Alva Davis,	Chainman.
	Ezra Greer,	Chainman.
	G.G.Greer,	Chainman.
	Elmer Wall,	Chainman.
	Alva Davis,	Moundman.
	G.G.Greer,	Moundman.
	Melburn Ford,	Axman.
	Parley Davis,	Axman.
	A.P.Hanson,	Flagman.
1910:	Lewis McGuire,	Chainman.
	Frank Curtis,	Chainman.
	Lionel Averett,	Chainman.
	Harry Curtis,	Chainman.
	Frank Curtis,	Moundman.
	Lionel Averett,	Moundman.
	Lewis McGuire,	Axman.
	A.P.Hanson,	Axman.
	A.P.Hanson,	Flagman.

BOOK A-359

INDEX DIAGRAM.

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

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31	32	33	34	35	36

Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Alva Davis, Ezra Greer, G G Greer and Elmer Wall 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 First Standard Parallel South, through Range 6 East, S.L.B. and M. and resurvey of easterly 1 mile through Range 5 East

Alva Davis, Chainman.

Ezra Greer, Chainman.

G G Greer

Elmer Wall

Subscribed and sworn to before me this 23d day of August, 1909

Don L. Bigelow
Notary Public

SEAL

WE, Alva Davis and G G Greer 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 First Standard Parallel South through Range 6 East S.L.B. and M. and resurvey of easterly 1 mile through Range 5 East

Alva Davis, Moundman.

G G Greer, Moundman.

Subscribed and sworn to before me this 23rd day of August, 1909

Don L. Bigelow
Notary Public.

SEAL

WE, Melburn Ford and Parley Davis 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 First Standard Parallel South through Range 6 East, S.L.B. and M. and resurvey of easterly 1 mile through Range 5 East

Melburn Ford, Axman.

Parley L Davis, Axman.

Subscribed and sworn to before me this 23rd day of August, 1909

Don L. Bigelow
Notary Public

SEAL

I, A P Hanson, 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 First Standard Parallel South through Range 6 East S.L.B. and M. and resurvey of easterly 1 mile through Range 5 East

A P Hanson, Flagman.

Subscribed and sworn to before me this 23rd day of August, 1909

Don L. Bigelow
Notary Public.

SEAL

My Commission Expires Jan. 4 1911.

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BOOK A-359

INDEX DIAGRAM.

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lewis McGuire, Frank Curtis and Lionel Averett 3rd, Harry Curtis 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 resurvey of The First Standard Parallel South through Range 5 East S.L.B. and M. Utah

Lewis McGuire, Chainman.

Frank Curtis, Chainman.

Subscribed and sworn to before me this 4th day of May, 1910

Lionel Averett Chainman.

Harry Curtis Chainman.

Frederick W. Hanson

Compassman

SEAL

WE, Frank Curtis and Lionel Averett do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the resurvey of The First Standard Parallel South through Range 5 East S.L.B. and M. Utah

Frank Curtis, Moundman.

Lionel Averett, Moundman.

Subscribed and sworn to before me this 4th day of May, 1910

Frederick W. Hanson

Compassman

SEAL

WE, Lewis McGuire and A. P. Hanson 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 resurvey of The First Standard Parallel South through Range 5 East S.L.B. and M. Utah

Lewis McGuire, Axman.

A. P. Hanson, Axman.

Subscribed and sworn to before me this 4th day of May, 1910

Frederick W. Hanson

Compassman

SEAL

I, A. P. Hanson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the resurvey of The First Standard Parallel South through Range 5 East S.L.B. and M. Utah

A. P. Hanson, Flagman.

Subscribed and sworn to before me this 4th day of May, 1910

Frederick W. Hanson

Compassman

SEAL

6—151

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH R.5 E.

CHAINS.

Survey commenced August 23, 1909 and executed with a Gurley Light Mountain Transit 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 verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, August 21, 1909.

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 observations on Polaris, I proceed as follows:

Being unable to find any trace of the Standard cor. of T.5 S. Rs.5 and 6 E. from which to initiate my survey according to instructions, I go to the Standard cor. of secs. 35 and 36 on S. bdy. of T.5 S. R. 5 E.; latitude 40°20'N., longitude 111°20'50"W.; I set off 40°20'N. on the lat. arc, 11°37'N. on the decl. arc and at 3h 57m p.m. l.m.t. determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 4.50 chs. N. of cor.

At 9h 25m 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 on a peg driven in the ground 4.50 chs. N. of my station.

August 23, 1909.

August 24: at 7h 20m a.m., l.m.t., I lay off the azimuth of Polaris 1°32' to the west and mark the meridian thus determined on the stone set August 23.

At 7h 30m a.m., l.m.t., I set off 40°20'N. on the lat. arc 11°14'N. on the decl. arc and mark a point in the

CHAINS.	
	meridian determined with the solar, on the stone already set 4.50 chs. N. of the instrument and by turning plate angles find that the solar apparatus by p.m. and a.m. observations defines meridians respectively within 0°1' of arc of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 7h 30m a.m. is N.17°08'W.; the angle thus determined gives the mean magnetic declination, 17°08'E.
	From the Standard cor. above described, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general, I retrace East on the First Standard Parallel south and S. bdy. of sec. 36; at 40.00 chs. I could find no trace of the Standard ¼ sec. cor. and at 80.00 chs. a diligent search failed to disclose any trace of the S.C. of Tp.5 S. Rs. 5 and 6 E., and setting a temp. cor. I turn N. along range line and E. bdy. of sec. 36 where at 40.00 chs I find the ¼ sec. cor.; wherefor I make resurvey as follows:
	From the S.C. of secs. 35 and 36 I run
	East along S. bdy. sec. 36
	Over mountainous land
	Ascending gradually
4.00	Enter timber, bears N. and S.
6.50	A black balsam tree, 60 ins.diam., still standing, marked with notches on W. and E. sides
18.00	Top of swell, bears N. and S. Begin gradual descent
24.55	Old road from Wallsburg to Daniel's Canyon, bears N.E. and S.W.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks; position of middle point

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE [illegible]

CHAINS.	
	By first set 39.98 chs.
	By second set 40.02 chs.; the mean of which is
40.00	Set a sandstone, 20x12x8 ins., 16 ins. in the ground, for Standard ¼ sec. cor., marked S C ¼ on N. face, from which
	An aspen tree, 5 ins. diam., bears N.44°[illegible]'E. [illegible] lks. dist., marked S C ¼ S 36 B T
	An aspen tree, 7 ins.diam., bears N.[illegible]'E. 71 lks. dist., marked S C ¼ S 36 B T
	No trace of original cor. could be found.
46.30	Dry wash in hollow, drains S.20°W., 110 ft. below swell
	Ascending gradually over broken surface
58.50	Leave timber, bears N.W. and S.E.
67.26	Enter timber, bears N. and S.
72.00	Leave timber, bears N.W. and S.E.
	Top of spur ridge, projects S., 100 ft. above hollow
	Descending
78.80	Enter timber, bears N. and S.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 8 lks.; position of middle point
	By 1st set 80.04 chs.
	By 2nd set 79.96 chs.; the mean of which is
80.00	Set a sandstone 18x9x8 ins., 12 ins. in the ground for Standard cor. of T.5 S. Rs.5 and 6 E., marked S C on N. with 6 grooves on N., E., and W. faces; from which
	An aspen tree, 6 ins.diam., bears N.[illegible]'W. 8 lks. dist., marked T 5 S R 5 E S 36 B T
	An aspen tree, 5 ins.diam., bears N.[illegible]'E. [illegible] lks. dist., marked T 5 S R 6 E S 31 B T
	No trace of original cor. could be found
	This cor. stands 60 ft. below top of spur
	Land, mountainous
	Soil; gravely wash and boulders; 2nd and 3rd rates
	Timber, aspen and pine of fair growth
	Mountainous land, 80.00 chs.

August 24, 19[illegible].

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.

May 5, 1910: having completed the survey of the S. and E. bdys. of T.6 S. R.5 E. I find that the exteriors of this township will not close on departure within about 15 chs. and having made such retracements and tests as to satisfy myself that my own work is correct I endeavor to locate the error in the previously surveyed N. and W. bdys. as follows:

From the Standard cor. of secs. 35 and 36 on N. bdy. of T.6 S. R.5 E., above described, I run west on a blank line along the 1st St. Par. South; at 40.00 chs. no trace of the Standard ¼ sec. cor. could be found but at 78.94 chs. I find the Standard cor. of secs.34 and 35 in place, properly marked and witnessed, and continuing west as before at 39.78 chs. the Standard ¼ sec. cor., nearly obliterated, bears N. 9 lks. and at 78.87 chs. the Standard cor. of secs. 33 and 34, much defaced, bears N. 16 lks. dist.; therefore I continue my line west, finding the alignment fairly good but measurements irregular and many of the cors. nearly obliterated. At 6.37 chs. W. of the Standard ¼ sec. cor. on S. bdy. sec. 31, I make a diligent and persistent search for the closing cor. of T.6 S. Rs.4 and 5 E. but no trace of same could be found nor have any trees such as the bearing trees to this cor., described by the surveyor general, existed in this locality for 10 years past. Therefore, in order to gain knowledge of said Tp. closing cor., I go to the cor. of secs. 1-6-7 and 12 on W. bdy. of T.6 S.R.5 E. and run north between secs.1 and 6; at 40.00 chs. the original ¼ sec. cor.; at 82.51 chs. the closing cor. of T.6 S. Rs. 4 and 5 E., firmly set, marked, and witnessed as described by the surveyor general, whence, continuing north as before, at 3.05 chs. intersect 1st St. Par. South at 33.45 chs. west of the Standard cor. of secs 31 and 32; therefore I make the following resurvey:

May 5, 1910.

BOUNDARY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	May 6, 1910: At the Standard cor. of secs. 33 and 34 T. 5 S. R.5 E., above described, I set off 16°20'W. on the 1st. arc, 16°20'W. on the dest. arc and at 9h 30m a.m., l.m.t. determine with the solar a meridian which I compare with the true meridian established by me August 24, 1909, and find that the two meridians agree within 0°1' of arc; therefore I conclude that the adjustments of the instrument are satisfactory
	Thence I run
	West along 1st St. Par. South and S. bdy. of sec. 35
	Over mountainous land
1.35	Dry wash in swale, drains N.20°W.
	Begin gradual ascent
4.00	Enter, timber, bears N. and S.
22.94	Old road from Wallsburg to Daniel's Canyon, bears N.35° W. and S.25°E. along top of ridge 20 ft. above wash
	Begin abrupt descent
31.35	Cut off of same road, bears N.E. and S.W.
38.40	Same road, bears N.E. and S.W.
36.00	Timber becomes aspen brake
	Difference between measurements of 39.47 chs. by two sets of chainmen is 4 lks; position of middle point
	By 1st set 39.49 chs.
	By 2nd set 39.45 chs;; the mean of which is
39.47	The equi-distance bet. cors.;set a sandstone 18x8x6 ins. 12 ins. in the ground for Standard 1/4 sec. cor., marked S C 1/4 on N. face; raised a mound of stones 3 ft. base, 1½ ft. high N. of cor.;pits impracticable.
	No trace of original cor. could be found
41.00	Leave aspen brake, bears N.W. and S.E.
41.50	Top of sharp spur ridge projecting west
	Thence along spur through dense undergrowth
55.50	Begin abrupt descent on N.W. slope
58.00	Enter small aspen timber, bears S.W. and N.E.
75.00	Leave timber, bears N. and S.
	Difference between measurements of 78.94 chs. by two sets

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	of chainmen is 6 lks.; position of middle point
	By 1st set 78.91 chs.
	By 2nd set 78.97.; the mean of which is
78.94	The Standard cor. of secs. 34 and 35, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general, but markings somewhat obliterated and mound partly scattered; I recut all markings on stone and rebuild mound 2 ft. base, 1½ ft. high N. of cor.; pits impracticable.
	This cor. stands 250 ft. below top of spur
	Land, mountainous
	Soil; gravely wash and boulders; 3 rd rate
	Timber, aspen of dense growth but small size mainly
	Dense wild cherry, oak, and thorn undergrowth
	Mountainous land, 78.94 chs.
	May 6: at this cor. I set off 16°27'N. on the decl arc and at 11h 57m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40°20'N.
	N.29°53'W. along S. bdy. of sec. 34
	Over mountainous land
	Descending abruptly in dense undergrowth
19.60	Dry wash, drains N.20°W. in bottom of Canyon, 275 ft. below cor.
20.05	Old road from Wallsburg to Daniel's Canyon bears N.20°W. and S.20°E.
	Ascending abruptly
30.00	Top of slope, bears N.25°W. and S.25°E., 190 ft. above wash
	Enter rolling bench sloping N.
	Difference between measurements of 39.78 chs by two sets of chainmen is 8 lks.; position of middle point
	By 1st set 39.74 chs.
	By 2nd set 39.82 chs.; the mean of which is
39.78	The original Standard ¼ sec. cor.; a live oak tree 4½ ins. diam., marked S C ¼ on N. face, in the bark with-

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	out blaze, plainly decipherable but much defaced owing to growth of tree. I describe tree S C ½ S 34 on N. face; from which
	An oak tree, 4 ins.diam., bears N.29°25'E. 9 lks.dist., marked ½ S 34 B T
	No other trees within limit; raised a mound of stone 3 ft. base, 1½ ft. high N. of cor.
	Descending gradually
74.00	Begin abrupt descent on rocky slope
78.35	Bottom of Round Valley Canyon, bears N. and S., 275 ft. below sec. cor.
	Difference between measurements of 78.87 chd. by two sets of chainmen is 10 lks.; position of middle point
	By 1st set 78.92 chs.
	By 2nd set 78.82 chs.; the mean of which is
78.87	The original Standard cor. of secs. 33 and 34; a sandstone 34x14x4 ins.,properly marked, and lying 6 ins.deep on N. face, split but not separated. I reset largest fragment of same stone 24x8x12 ins. 18 ins. in the ground for Standard cor. of secs. 33 and 34, marked S C on N. with 3 grooves on E. and W. faces;raised a mound of stones 3 ft.base, 1½ ft. high,N.of cor.;pits impracticable
	From this cor. an angular boulder 24x18x18 ins.lying on W. edge of road, marked U H F B Line, bears S.8°40'E. 91 lks. dist.
	Land, mountainous
	Soil; gravely and rocky; 2nd and 3rd rates
	No timber
	Dense oak brush undergrowth
	Mountainous land, 78.87 chs.
	May 6, 1910.

May 7: at 7h 5m a.m., l.m.t., I set off 40°30'N. on the lat. arc, 16°42'N. on the decl. arc and determine a meridian with the solar at the Standard cor. of secs. 33 and 34: thence I run

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	N.89°43.W. along S. bdy. of sec. 33
	Over mountainous land, through dense undergrowth
0.12	Canyon road in bottom of canyon, bears N. and S.
0.50	Old road, washed out, bears N. and S.
1.73	Dry wash, mill race, 10 ft. deep, from old shingle mill, drains N.
4.25	Round Valley Creek, 34 lks. wide, swift current, good water, flows N.20°W.
5.00	Leave bottom of canyon and begin abrupt ascent, bears N. and S.
17.00	Top of slope, 200 ft. above creek, bears N. and S.
	Enter rolling bench, slopes N.
	Difference between measurements of 39.90 chs. by two sets of chainmen is 6 lks.; position of middle point
	By 1st set 39.87 chs.
	By 2nd set 39.93 chs.;the mean of which is
39.90	The original Standard ¼ sec. cor.; a sandstone 16x8x8 ins.,properly marked, lying on N. face with one small stone on each side
	I reset stone 10 ins. in the ground, marked S C ¼ on N. face; raised a mound of stones 3 ft. base, 1½ ft. high N. of cor.; pits impracticable.
43.00	Bottom of hollow, 30 ft. deep, drains N.30°E.
	Ascending abruptly to
46.30	Top of slope, bears N.E. and S.W., 50 ft. above hollow
	Enter rolling bench sloping N. and ascend gradually
62.00	Old drag road, bears N. and S.
65.00	Top of slope; spur ridge projects N.20°E. 90 ft. above E. edge of bench
	Begin abrupt descent
76.95	Hobble Creek, 3 lks.wide, flows N.20°E. in bottom of narrow canyon, 275 ft. below top of ridge
77.50	Begin abrupt ascent
	Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks.;position of middle point
	By 1st set 79.98 chs.

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	By 2nd set 80.02 chs.; the mean of which is
80.00	The original Standard cor. of secs. 32 and 33; a red sand stone 14x10x8 ins. properly marked, lying in a large mound of stones on rocky slope, markings faint but plainly decipherable; bearing trees removed, corresponding stumps in place but wholly decayed
	I reset stone 9 ins. in the ground and mound of stones and recut old markings S/C on N. face with 4 grooves on E. and 2 grooves on W. edges; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	This cor. stands 75 ft. above creek
	Land, mountainous
	Soil; gravely wash and boulders; 3rd rate
	Timber, fringe of cottonwoods along creeks
	Dense oak and thorn undergrowth
	Mountainous land and dense undergrowth, 80.00 chs.
	May 7: at this cor. I set off 16°44'N. on the decl arc and at 11h 56m a.m., l.m.t. observe the sun on the meridian; the resulting lat. is 40°20'N.
	West along S. bdy. sec. 32
	Over mountainous land and through dense undergrowth
	Ascend abruptly
12.00	Top of spur, bears N.20°E. and S.20°W., 210 ft. above cor.; enter rolling bench sloping N.
	Ascending gradually
18.00	Old drag road, bears N. and S.
31.55	Dry wash, drains N. in hollow 75 ft. deep
	Difference between measurements of 39.98 chs. by two sets of chainmen is 8 lks.; position of middle point
	By 1st set 40.02 chs.
	By 2nd set 39.94 chs.; the mean of which is
39.98	The equi-distance; set a sandstone 18x9x8 ins., 12 ins. in the ground for Standard ¼ sec. cor., marked S C ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	high N. of cor.; pits impracticable.
	No trace of original cor. could be found
57.00	Begin abrupt ascent
60.20	Top of spur ridge projecting N.20°W., 160 ft. above E. edge of bench
	Begin abrupt descent on 33° slope
75.40	West fork of Hobble Creek, 5 lks. wide, flows N. in canyon 385 ft. below top of spur
	Begin ascent on 34°30' slope
	Difference between measurements of 79.96 chs by two sets of chainmen is 12 lks.; position of middle point
	By 1st set 79.90 chs.
	By 2nd set 80.02 chs.; the mean of which is
79.96	The original Standard corner of secs. 31 and 32
	A sandstone 18x10x4 ins., properly marked but mark somewhat defaced, set 8 ins. in the ground, a few stones surrounding; I reset the stone 12 ins. in the ground marked S C on N. with 5 grooves on E. and 1 groove on W. faces; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor.; pits impracticable.
	This cor. stands 190 ft. above creek.
	Land, mountainous
	Soil; gravely wash and boulders; 3rd rate
	No timber. Dense oak, maple, and thorn undergrowth
	Mountainous land and dense undergrowth, 79.96 chs.
	West along S. bdy. sec. 31
	Over mountainous land and through dense undergrowth
	Ascending abruptly
3.60	Top of abrupt slope, bears N. and S.
	Ascending gradually to
21.00	Top of spur ridge, projects N., 200 ft. above cor.
	Begin descent
25.00	Descent becomes abrupt: enter timber, bears N. and S.
29.75	Dry wash, drains N.30°E. in bottom of gulch 100 ft. deep
30.10	Drag road, runs parallel to wash

RESURVEY OF FIRST STANDARD PARALLEL SOUTH THROUGH RANGE 5 E.

CHAINS.	
	Leave timber, bears N. and S., and ascend in slide rock
36.00	Leave slide rock, bears N. and S.
	Difference between measurements of 39.96 chs. by two sets of chainmen is 8 lks.; position of middle point By 1st set 39.92 chs. By 2nd set 40.00 chs.; the mean of which is
39.96	The original Standard $\frac{1}{4}$ sec. cor., a sandstone 24x12x5 ins. properly marked but loosely set in mound of stones, and markings somewhat defaced. I reset stone 18 ins. in the ground, marked S C $\frac{1}{4}$ on N. face and raise a mound of stones 3 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.; pits impracticable.
	This cor. stands 140 ft. above bottom of hollow.
	Land, mountainous
	Soil; gravely and rocky; 3rd and 4th rate
	Timber, aspen
	Oak, maple, and thorn undergrowth
	Mountainous land and dense undergrowth, 39.96 chs.
	May 7, 1910.

Frederick W. Hanson

Compassman.

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Page

First Standard Parallel South through Range 6 East

Chains Survey commenced August 24, 1909 and executed with a W & L E Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah August 21, 1909.

Note: For Polaris observation and full test of solar apparatus completed this date see field notes of resurvey of First Standard Parallel South, through R.5 E. reference to which is hereby made, and being confident the adjustments of the instrument are still satisfactory I deem it unnecessary to repeat the test at this time.

At the standard corner of township 5 south ranges 5 and 6 east in latitude 40° 19' 59" N. longitude 111° 19' 41" W. as reestablished by me this day and described in this Book I set off 40° 19' 59" N. on the Lat. arc 11° 41' 00" N. on the Decl. arc and at 9h 58m a. m., l.m.t. determine a meridian with the solar

The magnetic bearing of the meridian at 10h a.m. is N. 16° 40' W., which gives the Mag. Decl. 16° 40' E.

Thence I run

East on S. bdy. sec. 31

Over mountainous land; through timber

Descending on S. E. slope

7.00 Bottom of hollow draining southerly, 75 ft. below cor.

Ascending abrupt slope

38.50 " Top of spur-ridge projecting southerly, 150 ft. above hollow; thence descending

Difference between measurements of 40.00 chs. by two sets of chainmen is 12 lks.; position of middle point

By 1st set 40.06 chs.

First Standard Parallel South through Range 6 East

Chains By 2nd set 39.94 chs.;the mean of which is

40.00 Set a sandstone I8 x II x I0 ins. I2 ins. in the ground for standard ¼ sec. cor. marked S. C. ¼ on N. face from which

An aspen tree 5 ins. diam. bears N. 49° 55' W. 2I lks. dist. marked S. C. ¼ S.3I B. T.

An aspen tree 4 ins. diam. bears N. 23° 00' E. 26 lks. dist. marked S. C. ¼ S. 3I B. T.

45.70 Dry wash drains S.W. in hollow 60 ft. below ridge

Ascending

79.65 Timber changes from aspen to pine, course N. and S.

Difference between measurements of 80.00 chs. by two sets of chainmen,is I0 lks.;position of middle point

By Ist.set,79.95 chs.

By 2nd set,80.05 chs.;the mean of which is

80.00 Set a sandstone I8 x 9 x 8 ins. I2 ins. in the ground for standard cor. of secs. 3I and 32 marked S.C on N.,with 5 groves on E. and I grove on w. face; from which

A pine tree I0 ins. diam. bears N. 61° 57' E. 25 lks. dist. marked T.5 S R 6 E S 32 B T
A pine tree I6 ins. diam. bears S.46°04'E. 8 lks. dist. marked T 6 S R 6 E S 5 B T
A pine tree 5 ins. diam. bears N. 57° 32' W. I6 lks. dist. marked T 5 S R 6 E S 3I B T
A pine tree 8 ins. diam. bears S.2I°55'W. 9 lks. dist. marked T 6 S R 6 E S 6 B T
This cor. stands 250 ft. above hollow

Land,mountainous,

Soil,gravely; 3rd rate

Timber, aspen of small size mainly,and very dense growth and a few scattering pine

Mountainous and heavily timbered land 80.00 chs.

August 24: At this cor. I set off ~~[illegible]~~ ~~[illegible]~~ 11° 09' N. on the decl.arc.;and at I2h 2m p.m. l.m.t.,observe the sun on the meridian; the resulting lat. is 40° 20' N.

East on S. bdy. sec. 32

Over mountainous land.

First Standard Parallel South through Range 6 East

Chains	
	Ascending gradually through heavy pine timber
4.00	Top of ridge bears N. and S.; begin descent on Daniels Canyon slope
4.90	Old road to top of mountain bears northerly and sowtherly
11.41	Old road from Wallsburg to Daniels Canyon bears south easterly and north westerly. Timber changes to aspen
	Difference between measurements of 40.00 chs. by two sets of chainmen is 14 lks.; position of middle point
	By 1st set 40.07 chs.
	By 2nd set 39.93 chs.; the mean of which is
40.00	Set a sandstone 18 x 10 x 8 ins. 12 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face from which
	An aspen tree 6 ins. diam. bears N. 34° 40' E. 14 lks. dist. marked S C ¼ S 32 B T
	An aspen tree 4 ins. diam. bears N. 31° 30' W. 8 lks. dist. marked S C ¼ S 32 B T
44.50	Slope becomes gradual course N. and S.
56.00	Slope becomes abrupt course N. and S.
60.60	Dry wash drains N. 25° E.
	Thence over rolling bench.
70.80	Wash in hollow 40 ft. deep drains N.; ascending gradually
76.00	Top of swell bears N. and S. 30 ft. high
	Begin descent. Enter heavy pine timber, course N. and S.
	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 18 x 10 x 6 ins. 12 ins. in the ground for standard cor. of secs. 32 and 33 marked S C on N. with 4 groves on E. and 2 groves on W. face; from which
	An aspen tree 3 ins. diam. bears N. 40° 10' W. 8 lks. dist. marked T 5 S R 6 E S 32 B T
	An aspen tree 8 ins. diam. bears N. 50° 00' E. 37 lks. dist. marked T 5 S R 6 E S 33 B T
	No other trees within limit; raised a mound of stones 2

First Standard Parallel South through Range 6 East

Chains	ft. base. I½ ft. high W. of cor. Pits impracticable.
	This cor. stands 470 ft. below St. cor. of secs. 3I and 32
	Land mountainous.
	Soil gravely; 3rd rate
	Timber, aspen of small size mainly, very dense; and bunches of pine of good size.
	Mountainous and heavily timbered land 80.00 chs.
	August 24 I909
	August 25: At 8h on a.m., l.m.t., I set off 40°20'N. on the lat. arc. I0°52'05"N. on the decl arc. and determine a meridian with the solar at the standard cor. of secs. 32 and 33; thence I run
	East on S. bdy. sec. 33
	Over mountainous land.
	Decending through dense pine and aspen timber
	Difference between measurements of 40.00 chs. by two sets of chainen is 8 links.; position of middle point
	By Ist set 40.04 chs.
	By 2nd set 39.96 chs.; the mean of which is
40.00	Set a sandstone I7 x 8 x 6 ins. I2 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face from which
	An aspen tree 4 ins. diam. bears N. I4°44'E. 26 lks. dist. marked S C ¼ S 33 B T
	An aspen tree 3 ins. diam. bears N. 72°I5'W. I3 lks. dist. marked S C ¼ S 33 B T
45.50	Enter circular swamp
47.60	Leave swamp
60.00	Leave timber and begin abrupt descent course N. and S.
7I.00	Enter dense tall brush course N. and S.
79.85	Leave brush course N. E. and S. W.
	Difference between measurements of 80.00 chs. by two sets of chainmen is I6 lks.; position of middle point
	By Ist set 79.92 chs.
	By 2nd set 80.08 chs.; the mean of which is
80.00	Set a sandstone I8 x I4 x 6 ins. I2 ins. in the ground

First Standard Parallel South through Range 6 East

Chains	
	and mound of stones for standard cor. of secs. 33 and 34 marked S. C. on N. With 3 groves on E.and W.faces from which
	An aspen tree 6 ins. diam. bears S.35°30'E. 53 lks. dist. marked T 6 S R 6 E S 3 B T
	An aspen tree 4 ins. diam. bears N. 80°10'W. 46 lks. dist. marked T 5 S R 6E S33 B T
	A pine tree 4 ins. diam. bears S.5°35'W. 48 lks. dist. marked T 6 S R 6 E S 4 B T
	No other trees within limit.
	Raised a mound of stones 3 ft. base 1½ ft. high W. of cor.
	This cor. stands 850 ft. below the standard cor. of secs. 32 and 33 and in edge of wash in bottom of ravine
	Land mountainous ,
	Soil gravely 3rd rate.
	Timber ,dense growth of aspen of small size and bunches of large pine on 60.00 chs.
	Mountainous land 80.00 chs.
	August 25; I set off 10°49'00" N. on the lat arc. and at 12h 2m p.m.,l.m.t.,observe the sun on the meridian, the resulting lat. is 40°20'N.

	East on S. bdy sec. 34
	Over mountainous land.
	Descending through dense underbrush,and small aspen timber
0.10	Dry wash in bottom of hollow drains N. 80°E
13.60	Wagon road in bottom of Daniels Canyon,course N. and S.
14.70	Daniels Creek 15 lks.wide flows N.,125 ft,below cor.
16.00	Begin abrupt ascent,course N. and S.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 14 lks.,position of middle point
	By 1st set,40.07 chs.
	By 2nd set 39.93 chs.;the mean of which is
40.00	Set a sandstone 17 x 8 x 6 ins. 12 ins. in the ground for standard ¼ sec. cor. marked S C ¼ on N. face, from which
	An aspen tree 4 ins. diam. bears N. 8°35'E. 22 lks. dist. marked S C ¼ S 34 B T
	An aspen tree 5 ins. diam. bears N. 66°32'W. 33 lks dist. marked S C ¼ S 34 B T

First Standard Parallel South through Range 6 East

Chains	
68.09	Hollow 30 ft. deep drains N. W.
69.00	Timber changes to pine and aspen, bears N. and S.
79.45	Wagon road bears N.E. and S.W.
	Difference between measurements of 80.00 chs. by two sets of chainmen is I8 lks.; position of middle point
	By Ist set 79.9I chs.
	By 2nd set 80.09 chs.; the mean of which is
80.00	Set a sandstone I8 x I2 x 4 ins. I2 ins. in the ground for standard cor. of secs. 34 and 35 marked S C on N. with 2 groves on E. and 4 groves on W. face, from which
	A pine tree 25 ins. diam. bears S. 38°40'E. 25 lks. dist. marked T 6 S R 6 E S 2 B T
	An aspen tree 6 ins. diam. bears N. 70°00'E. 4I lks. dist. marked T 5 S R 6 E S 35 B T
	An aspen tree 6 ins. diam. bears S. I6°50'W. 27 lks. dist. marked T 6 S R 6 E S 3 B T
	An aspen tree 3 ins. diam. bears N. 0°25'W. II lks. dist. marked T 5 S R 6 E S 34 B T
	This cor. stands 960 ft. above the creek
	Land mountainous.
	Soil gravely 3rd rate
	Timber, aspen of small size mainly and dense growth, and pine of large size on last II chs.
	Mountainous land 80.00. chs.
	East on S. bdy. sec. 35
	Over mountainous land
	Ascending through timber
8.93	Intersect west boundary of the Uintah Indian Reservation; Set a sandstone I8 x 6 x 5 ins. I2 ins. in the ground for closing cor. of secs. 2 and 35 marked C C with 5 groves on W. 6 groves on N. and S. and U I R on E. faces from which
	An aspen tree 7 ins. diam. bears N. 69°00'W. I2 lks. dist. marked T 5 S R 6 E S 35 B T
	A pine tree 9 ins. diam. bears N. 5°I0'E. 37 lks. dist. marked T 5 S R 6 E S 35 B T
	An aspen tree 7 ins. diam. bears S. 72°07'W. 57 lks. dist. marked T 6 S R 6 E S 2 B T
	From this closing cor. the ½ mile cor. on the I40th mile

First Standard Parallel South through Range 6 East

Chains

Bears S. 46°30' W. 1.78 chs.

Land mountainous

Soil gravely 3rd rate

Timber, pine and aspen, heavy growth

Heavily timbered land 8.93 chs.

August 25, 1909

August 26, 1909: I return to the meridian established August 24, from Polaris, described in this book;, and at 8h 3m, a.m., l.m.t. set off 40°30'W. on the lat, arc. 10° 33'00"N. on the decl. arc. and test the adjustments of my solar, finding it gives the same meridian as before, and conclude the adjustments remain correct.

August 26, 1909

GENERAL DESCRIPTION

This line runs over a steep rugged mountainous country, heavily timbered throughout, but the timber is mostly of small size and inferior.

Frederick W. Hanson
Compassman.

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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 Frederick W. Hanson for Andrew P. Hanson Compassman, 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 First Standard Parallel South through Range 6 East and resurvey of easterly 1 mile through Range 5 East S.L. Boundary, Utah showing the respective capacities in which they acted:

Alva L. Davis, Chainman.
E. G. Greer, Chainman.
Ezra Greer, Chainman.
Chauncey Wall, Chainman.
Alva Davis, Moundman.
E. G. Greer, Moundman.
Melburn Ford, Axman.
Parley Davis, Axman.
A. P. Hanson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson, Compassman for Andrew P. Hanson, United States Deputy Surveyor, in surveying all those parts or portions of the First Standard Parallel South through Range 6 East and resurvey of easterly 1 mile through Range 5 East 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.

Alva L. Davis, Chainman.
Ezra Greer, Chainman.
Chauncey Wall, Chainman.
E. G. Greer, Moundman.
Alva Davis, Moundman.
Melburn Ford, Axman.
Parley Davis, Axman.
A. P. Hanson, Flagman.

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

SEAL

Frederick W. Hanson
Compassman.

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BOOK A-359

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I. ....., United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date of tl
..... day of ....., 190 , I have well, faithfully, and truly, in my ow
proper person, and in strict conformity with the instructions furnished by the United States Survey
General for ....., the Manual of Surveying Instructions, and the laws of tl
United States, surveyed all those parts or portions of .....
.....
.....
.....
..... of the .....
..... meridian, in the ..... of ....., which are represented in tl
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 ..... and in the specific manner described in the field notes, and th
the foregoing are the original field notes of such survey.

.....
United States Deputy Surveyo

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

....., 190

The foregoing field notes of the survey of .....
.....
.....
.....
.....
.....
executed by .....
under his contract No. ....., dated ....., 190 , 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

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W Hanson for Andrew P. Hanson Compassman, ~~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 First Standard Parallel South through Range 5 East S.L.B.and M. showing the respective capacities in which they acted:

Lewis McGuire, Chainman.
Frank Curtis, Chainman.
Lionel Averett, Chainman ~~Moundman~~.
Harry Curtis, Chainman ~~Moundman~~.
Frank Curtis, Moundman ~~Axman~~.
Lionel Averett, Moundman ~~Axman~~.
A P Hanson, Axman
A P Hanson, Flagman.
Lewis McGuire, Axman

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W Hanson for Andrew P. Hanson Compassman, United States Deputy Surveyor, in surveying all those parts or portions of the First Standard Parallel South through Range 5 East

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.

Lewis McGuire, Chainman.
Frank Curtis, Chainman.
Lionel Averett, Chainman ~~Moundman~~.
Harry Curtis, Chainman ~~Moundman~~.
Frank Curtis, Moundman ~~Axman~~.
Lionel Averett, Moundman ~~Axman~~.
A P Hanson, Axman.
Lewis McGuire, Axman
A P Hanson, Flagman.

Subscribed and sworn to before me this 8th day of May, 1910

SEAL

Frederick W Hanson
Compassman.

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson

I, Frederick W. Hanson, Compassman for, 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 May, 1905, 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 First Standard Parallel South through Range 6 East and resurvey of First Standard Parallel South through Range 5 East

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

Frederick W. Hanson
Compassman for Andrew P. Hanson
United States Deputy Surveyor.

Subscribed by said Frederick W. Hanson, and sworn to before me this 2 day of February, 1911.

SEAL

Thomas Hull
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 1911.

The foregoing field notes of the survey of the First Standard Parallel South through Range 6 East and resurvey through Range 5 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, 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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L.

BOOK A-359

M. S. B.

FIELD NOTES

RE

OF THE SURVEY OF THE

EAST, WEST, AND NORTH BOUNDARIES

O F

TOWNSHIP NO.5 SOUTH

RANGE NO.6 EAST

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH

AS SURVEYED BY

Andrew P.Hanson

Andrew W.Hanson,Commissioner for, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *1905.*

Survey commenced August 26, *1909*

Survey completed September 15, *1909.*

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5-64-51

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BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Alva Davis,	Chainman.
G.G.Greer,	Chainman.
Parley Davis,	Moundman.
G.G.Greer,	Moundman.
Ezra Greer,	Axman.
Parley Davis,	Axman.
A.P.Hanson,	Flagman.

Volume
#
R0359

BOOK A-359

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Meanders Page .....

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BOOK A-359

PRELIMINARY OATHS OF ASSISTANTS.

We, Alva Davis and G. G. Greer 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 re survey of the East, West, and North Boundaries of Township 5 South, Range 6 East of the S.L.B.& M., Utah.

Alva Davis, Chainman.
G G Greer, Chainman.

Subscribed and sworn to before me this 23rd day of August, 1907

SEAL

Don L. Bigelow
Notary Public

We, Parley Davis and G. G. Greer do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the re survey of the East, West, and North Boundaries of Township 5 South, Range 6 East of the S.L.B.& M., Utah.

Parley Davis, Moundman.
G G Greer, Moundman.

Subscribed and sworn to before me this 23rd day of August, 1907

SEAL

Don L. Bigelow
Notary Public

We, Ezra Greer and Parley Davis do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the re survey of the East, West, and North Boundaries of Township 5 South, Range 6 East of the S.L.B.& M., Utah.

Ezra Greer, Axman.
Parley Davis, Axman.

Subscribed and sworn to before me this 23rd day of August, 1907

SEAL

Don L. Bigelow
Notary Public

I, A. P. Hanson, 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 East, West, and North Boundaries of Township 5 South, Range 6 East of the S.L.B.& M., Utah.

A P Hanson, Flagman.

Subscribed and sworn to before me this 23rd day of August, 1907

SEAL

Don L. Bigelow
Notary Public.

My Commission Expires Jan. 7, 1911.

Resurvey of the west Bdy. of Tp. 5 S. R. 6 E. S. L. B. and M

Chains	
	Note:-For description of tests of transit see field notes of resurvey of 1st.Stand.Par.S.R.5 E., book "K"
	Preliminary to commencing the subdivision of this township I run north on a blank line on the west boundary of sec. 31; at 40.00 chs. I find the ¼ sec. cor. stone lying on top of ground and at 80.00 chs. a trace of the cor. of secs. 25 30 31 and 36; and continuing as before,north bet. secs. 25 and 30,at 33.66 chs. I find the ¼ sec. cor. bearing east 4 lks. and at 74.60 chs. the cor. of secs. 19 24 25 and 30 bearing east 10 lks. and the course of this line is therefor N.0°04'E.;from this cor. I continue as before,north bet. secs. 19 and 24,and at 38.65 chs. find the ¼ sec. cor. bearing east 12 lks. and at 78.80 chs. chs. the cor. of secs. 13 18 19 and 24 bearing east 23 lks.,and the course of thes line is therefor N.0°10'E.; from this cor. I continue as before north bet.secs.13 and 18,at 38.85 chs.the ¼ sec.cor.bears east 4 lks.and at 80.40 chs.the cor.of secs.7-12-13-and 18 bears east 8 lks.,and the course of this line is therefor N.0°03'E.; from this cor.I run north on a blank line bet.secs.7 and 12,intersecting the ¼ sec.cor.at 41.00 chs.and a trace of the cor.of secs.1-6-7 and 12 at 80.72 chs.and the course of this line is therefor north; from this cor.I run north on a blank line bet.secs.1 and 6,at 40.00 chs. a diligent search failed to disclose any trace of the ¼ sec.cor.but at 80.65 chs.I intersecttraces of the cor. of Tps.4 and 5 S.Rs.5 and 6 E.,and the course of this line is north; and finding the entire west bdy.deficient in allignment and measurement and the corners nearly or wholly obliterated,and it being also evident that proper closings can not be made from the east; the west Tp. being subdivided,I resurvey this range line,reestablishing and changing original cors.to refer to secs.on the west only,setting new cors.for T.5 S.R.6 E.as follows:-
	Aug.26,1909,I set off 40°20'N.on the lat.arc.10°32'N.on the decl.arc.and at 8h.2m A.M.,l.m.t.determine a meridian with the solar at the standard cor.of Tp.5 S.Rs.5 and 6 E.as heretofore described in Book"K",thence I run
	North bet. secs. 31 and 36
	Over mountainous and heavily timbered land, Ascending
30.00	Top of slope bears E.and W.150 ft.high,thence over W.slope

Resurvey of the West Bdy. of T.5 S.R 6 E.S.L.B.and M.

Chains	
37.80	Old road from Wallsburg to Daniels Canyon bears E.and W.
40.00	The original ¼ sec.cor.lying nearly on top of ground, a sandstone 18 x 8 x 6 ins. properly marked but bearing trees removed; I reset stone 12 ins.in the ground marked ¼ on w.face, from which
	A pine tree 12 ins.diam.bears S.64°E.31 lks.dist.marked ¼ S.31 B T
	A pine tree 10 ins.diam.bears N.74°08'W.31 lks.dist.marked ¼ S 36 B T
51.00	Begin gradual ascent bears easterly and westerly
65.00	Top of slope bears N.W.and S.E.,enter flat top of divide ridge 50 ft.above ¼ sec.cor.
71.00	Begin gradual descent,bears N.W.and S.E.
80.00	A burnt and decayed aspen tree trunk with faint markings upon it I identify as the original aspen tree cor. Set a sandstone 18x8x6 ins.12 ins.in the ground for cor. of secs.25-30-31 and 36 marked with one notch on S.and 5 notches on N.edges,from which
	An aspen tree 10 ins.diam.,bears S.79°38'E.42 lks dist. marked T 5 S R 6 E S 31 B T
	An aspen tree 5 ins. diam.,bears S 25°55'W.31 lks.dist. marked T 5 S R 5 E S 36 B T
	An aspen tree 7 ins.diam.,bears N.85°10'W.36 lks.dist. marked T 5 S R 5 E S 25 B T
	An aspen tree 5 ins.diam.bears N.72°50'E.32 lks.dist. marked T 5 S R 6 E S 30 B T
	Land mountainous,
	Soil, gravely loam, 2nd rate
	Timber, aspen of dense growth and scattering pine,
	Mountainous and heavily timbered land 80.00 chs.

	N.0°04'E.bet.secs.25 and 30
	Over mountainous and heavily timbered land
	Descending gradually on N.E.slope
33.66	The original ¼ sec. cor. as found,a black balsam tree 30 ins.diam.marked ¼ on W.side from which
	Original bearing tree,an aspen 8 ins.diam.marked ¼ S bears N.56°W.23 lks.
40.00	Set a sandstone 24x8x6 ins.12 ins.in the ground for ¼ sec cor. of sec. 30, marked ¼ on E. face from which

RESURVEY OF THE W. BDY. OF T.5 S.R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
	An aspen tree, 7 ins.diam., bears S.61°45'E.16 lks. dist., marked ¼ S 30 B T
	Raise mound of stones 3 ft. base 1½ ft. high, E. of cor.
	Pits impracticable
	This cor. stands 300 ft. below sec. cor.
	Thence over rolling E. slope
58.00	Leave timber, bears S.E. and N.W.
61.75	Stream, 3 lks. wide, flows S.55°E. in head of gulch 40 ft. below ¼ sec.cor.
	Begin gradual ascent
64.00	Enter heavy timber, bears N.W. and S.E.
74.60	The original cor. of secs.19-24-25 and 30 as found, an aspen 9 ins.diam.marked as described by the surveyor general; I remove markings refering to secs.in R.6 E.
	Original bearing tree, an aspen 8 ins.diam.marked ¼ s Bears N.31½°W.31 lks.dist. I remove all markings from bearing tree in sec. 19, which is dead, rotten and fallen
	An aspen tree, 8 ins.diam., bears S.42°00'W. 40 lks. dist., marked T 5 S R 5 E S 25 B T
	This cor. stands on top of low ridge, bears S.E.and W.
	Thence I run N. 0°10' E.
76.00	Desc. gradually
80.00	Set a sandstone 18x12x6 ins. 12 ins. in the ground for cor. of secs. 19 and 30, marked with 2 notches on S. and 4 notches on N. edges; from which
	An aspen tree, 5 ins.diam., bears S.30°12'E. 13 lks. dist., marked T 5 S R 6 E S 30 B T
	An aspen tree, 6 ins.diam., bears N.18°05'E. 15 lks. dist., marked T 5 S R 6 E S 19 B T
	Land, mountainous
	Soil, gravely wash; 3rd rate
	Timber, aspen of dense growth and scattering pine
	Mountainous and heavily timbered land, 80.00 chs.
	August 26:- At this cor. I set off 10°38'00"N. on the

SURVEY OF THE W. BDY. OF T.5 S.R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
	decl. arc. and at 12h 2m, l.m.t. observe the sun on the meridian: the resulting latitude is 40°22'00"N.
	N.0°10'E. bet. secs. 19 and 24
	Over mountainous and heavily timbered land
	Descending gradually on N.E. slope
18.50	Head of hollow, drains N.60°E. 125 ft. below cor.
24.75	Leave hollow and begin ascent
30.00	Top of spur ridge projecting N.75°E., 75 ft. high
	Descend gradually
33.25	The original ¼ sec.cor. as found, which is an aspen tree marked and witnessed as described by the surveyor general; I destroy all markings pertaining to Sec.19
37.70	Head of hollow draining N.55°E., 80 ft. below ridge
	Begin asc.
40.00	Set a sandstone 18x10x7 ins.,12 ins. in the ground for ¼ sec. cor.sec. 19, marked ¼ on E. face, from which An aspen tree, 5 ins.diam., bears S.63°40'E., 10 lks. dist., marked ¼ S 19 B.T.
46.50	Top of spur ridge projecting N.60°E., 70 ft. high
	Desc.
53.25	Stream, 3 lks. wide, flows N.75°E. in gulch 100 ft. below ridge
	Asc,
60.00	Top of spur ridgeprojecting N.75°E., 90 ft. above gulch
	Desc.
64.15	Hollow, drains N.E., 65 ft. deep
	Asc.
67.30	Top of spur ridge projecting N.E., 60 ft. high
	Desc.
73.40	Found trace of original cor. of secs. 13-18-19 and 24 but tree much decayed; set a sandstone 18x6x5 ins. 12 ins. in the ground for cor. of secs. 13 and 24, marked with 3 notches on N. and S. edges; raised a mound of stones, 2 ft. base 1½ ft. high, W. of cor. Pits impracticable

SURVEY OF W. BDY. OF T.5 S.R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
	This cor. stands in bottom of swale draining N. 75°E.
	Thence I run N. 0°03' E.
	Over rolling E. slope
80.00	Set a sandstone 18x12x11 ins., 12 ins. in the ground for cor. of secs. 18 and 19 , marked with 3 notches on N. and S. edges; from which
	An aspen tree, 6 ins.diam., bears N.75°38'E. 17 lks. dist., marked T 5 S R 6 E S 18 B T
	An aspen tree, 11 ins.diam., bears S.37°05'E. 46 lks. dist., marked T 5 S R 6 E S 19 B T
	Land, mountainous
	Soil, gravely wash; 3rd rate
	Timber, aspen of dense growth and scattering pine
	Mountainous and heavily timbered land, 80.00 chs. August 26, 1909.
	August 27, I run
	N.0°03'E. bet. secs. 13 and 18
	Over mountainous and heavily timbered land
	Descending gradually
3.00	Head of gulch, drains N.70°E.
	Ascend
13.50	Top of spur ridge projecting E., 100 ft. above gulch
	Begin descent on broken slope in pine timber, bears E. and W.
33.33	The original ¼ sec. cor. a sandstone 12 x 6 x 3 ins.above ground set, marked and witnessed as described by the surveyor general. The 34 in. pine bearing tree has fallen directly W., is much decayed, and is covering cor.
34.00	Leave pine timber, bears E. and W., enter small aspen and brush
39.75	Stream, 3 lks. wide, flows E. in bottom of open gulch 150 ft. below spur
40.00	Set a sandstone 18x12x10 ins., 12 ins. in the ground for ¼ sec. cor. of sec. 18, marked ¼ on E. face; from which
	An aspen tree, 4 ins.diam., bears S.54°25'E. 5 lks.

CHAINS.	
	dist., marked ¼ S 18 B T
40.50	Begin ascent
50.00	Top of spur ridge projecting N.25°E., 60 ft. above stream
	Desc.
67.50	Leave timber and brush, bears E. and W.
71.10	Stream, 3 lks. wide, flows N.80°E. in bottom of open hollow 100 ft. below ridge
	Thence over rolling slope
73.80	The original cor. of secs. 7-12-13 and 18, a sandstone 18 x 12 x 4 ins. marked and witnessed as described by the surveyor general, but stone loosely set, markings nearly obliterated and mound scattered. I reset stone 2/3 in the ground, marked with 4 notches on S. and 2 notches on N. edges and raise a mound of stones, 2 ft. base, 1½ ft. high E. of cor. Pits impracticable
	Thence I run north
77.00	Begin gradual ascent
80.00	Set a sandstone 18x9x8 ins., 12 ins. in the ground for cor. of secs. 7 and 18, marked with 4 notches on S. and 2 notches on N. edges, raised a mound of stones 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable.
	Land, mountainous
	Soil, gravely wash; 2nd rate
	Timber, aspen and pine, 67.50 chs.
	Mountainous and heavily timbered land, 80.00 chs.
	August 27; At this cor. I set off 40°23'00"N. on the lat. arc, 10°08'00"N. on the decl. arc and at 10h 02m a.m. determine a true meridian with the solar
	North bet. secs. 7 and 12
	Over mountainous land
	Ascending gradually
5.00	Top of ridge, bears E. and W., 50 ft. above cor.
	Enter timber, bears E. and W. and begin gradual

SURVEY OF THE W. BDY. OF T.5 S.R. 6 E., SALT LAKE BASE AND MERIDIAN

CHAINS.	
	descent
21.06	Dry wash in bottom of hollow, drains N.75°E.
	Ascend
26.15	Top of ridge, bears E. and W. 40 ft. high
	Descend gradually
31.70	Leave timber, bears N.60°E. and S.45°W.
33.75	Dry wash, drains N.80°E. in swale 40 ft. deep
	Begin ascent
34.80	Original ¼ sec. cor., a sandstone 14 x 9 x 6 ins. properly marked, lying on top of ground, but no trace of bearing tree as described by the surveyor general
	I reset stone 9 ins. in ground, marked ¼ on W. face and raised a mound of stones 3 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
38.00	Enter dense, small aspen timber
40.00	Set a sandstone 16x10x8 ins., 11 ins. in the ground for ¼ sec. cor. sec. 7, marked ¼ on E. face; from which An aspen tree, 5 ins. diam., bears S.14°E., 20 lks, dist., marked ¼ S 7 B T
	This cor. stands on top of low flat ridge, bears E. and W., 35 ft. above swale.
	Descend gradually on broken slope
69.85	Edge of break to Daniel's Canyon, bears N.W. and S.E.
	Begin descent on 36° slope in slide rock and rank undergrowth
	Leave timber
74.52	Found remnants of mound of original cor. of secs. 1-6-7 and 12 but markings on stone obliterated.
	I set a sandstone 28x11x7 ins. in mound of stones 3 ft. base 2 ft. high in rock slide and mark same with 5 notches on S. and 1 notch on N. edges for cor. of secs. 1 and 12
	Pits impracticable.

RESURVEY OF THE W. BDY. OF T.5 S.R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
77.00	Leave rock slide
80.00	Set a sandstone 18x6x6 ins. 12 ins. in the ground for cor. of secs. 6 and 7, marked with 5 notches on S. and 1 notch on N. edges; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable. This cor. stands 400 ft. below break Land, mountainous Soil, gravely and rocky, 3rd and 4th rate Timber, aspen of small size and dense growth Mountainous and heavily timbered land, 80.00 chs. August 27: at this cor. I set off 10°07'00"N. on the decl. arc and at 12h 2m l.m.t. observe the sun on the meridian, the resulting lat. is 40°34'N.
	North bet. secs. 1 and 6 Over mountainous land, through dense undergrowth Descending abrupt and rocky slope on broken side of canyon
24.97	Daniel's Creek, 25 lks. wide, deep swift current, good water, flows N.W. in bottom of narrow rocky canyon 700 ft. below cor. of secs. 6 and 7
26.09	County road, runs parallel with creek, Provo River Valley to Strawberry Valley. Begin abrupt ascent. A careful search failed to disclose any trace of the original ¼ sec. cor., hence at 40.00 chs. from the original cor. of secs. 1-6-7 and 12 as found, being at
34.52	Set a sandstone 18x9x5 ins., 12 ins. in the ground for ¼ sec. cor. of sec. 1, marked with ¼ on W. face; raised a mound of stones, 2 ft. base 1½ ft. high, W. of cor. Pits impracticable.
40.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for ¼ sec. cor. of sec. 6, marked ¼ on E. face; raised mound of stones, 2 ft. base 1½ ft. high, E. of cor. Pits impracticable.

Resurvey of the W.Bdy.of T.5 S.R.6 E.,Salt Lake Base and Meridian

Chains	
51.00	Enter slide rock,
60.50	Enter scattering mahogany timber,
72.75	Top of canyon,bears N.60°W.and S.60°E.,1140 ft.above creek enter flat top of westerly end of long dividing ridge
75.17	Intersect remnants of original cor. of Tps.4 and 5 S.Rs. 5 and 6 E.;markings on stone nearly obliterated and bearing tree together with other large trees has been destroyed by fire and only stumps remain.
	Set original sandstone 28x14x11 ins.,16 ins.in the ground for cor.of Tps.4 and 5 S.Rs.5 and 6 E.marked with 6 notches on each edge,from which
	A mountain mahogany tree 6 ins.diam.,bears S.57°35'E.43 lks.dist.marked T 5 S R 6 E S 6 B T
	A mountain mahogany tree 9 ins.diam.bears S.35°55'W.60 lks.dist.marked T 5 S R 5 E S 1 B T
	A mountain mahogany tree 10 ins.diam.bears N.7°30'E.65 lks.dist.marked T 4 S R 6 E S 31 B T
	A mountain mahogany tree 5 ins diam. bears N.5°01'W.74 lks.dist.marked T 4 S R 5 E S 36 B T
	Land mountainous,
	Soil,clay,gravel and slide rock;4th.rate
	Timber,fringe of cottonwood along creek,mountain mahogany
	Mountainous land 75.17 chs.
	August 27, 1909

RESURVEY OF N.BDY.OF T.5 S.R.6 E. S. L. B. AND M.

August 28: having completed the survey of S.bdy.and resurvey of W.bdy of Tp.,I find that the exteriors will not close within limit,and being confident my own work is correct it becomes necessary to locate the error in the older surveys of E.or N.bdys.,therefor, from the cor.of Tps.4 and 5 S.Rs.5 and 6 E.as above described I run east on a blank line bet.secs.6 and 31; at 40.00 chs.no trace of the ¼ sec.cor.could be found, and at 80.00 chs.a persistant search failed to disclose any trace of the cor.of secs.5-6-31 and 32, and I continue east as before bet.secs.5 and 32; at 30.00 chs.intersect spring described by the surveyor general,but at 40.00 chs.no trace of the ¼ sec.cor.could be found; at 42.50 chs.,intersect the isolated clump of fir trees 20 lks.

Resurvey of the N. Bdy. of Tp. 5 S. R. 6 E. Salt Lake B. and M.

Chains	
	diam.,as described by the surveyor general,with line tree notches on the centre one of the bunch,and at 80.00 chs.I intersect the cor.of secs.4-5-32 and 33,and having discovered no error I continue east as before bet secs. 4 and 33; at 40.00 chs.no trace of the ¼ sec.cor.could be found but at 81.49 chs.the original cor. of secs.3-4 33 and 34 bears north 134 lks.,and the course of this line is therefor N.89°03'E.; from this cor. I run east on a blank line bet.secs.3 and 34; at 40.00 chs.no trace of ¼ sec.cor.could be found but at 81.15 chs. the cor. of secs. 2-3-34 and 35 bears north 135 lks.,and the course of this line is therefor N.89°03'E.; from this cor. I run east as before bet.secs.3 and 35,at 40.00 chs. no trace of ¼ sec.cor. could be found but at 81.80 chs. the cor. of secs.1-2-35 and 36 bears south 3.07 chs.and the course of this line is therefor S.87°51'E.;from this cor.I continue east on a blank line bet secs.1 and 36, at 38.44 chs. the ¼ sec.cor.bears north 74 lks.giving a course of N.88°54'E.,and at 79.69 chs.the cor.of Tps.5 and 6 S.Rs.6 and 7 E.bears north 35 lks.giving a course of N.89°45'E.from the ¼ sec.cor. The allignment and measurements being largely in error and the the corners wholly or in part obliterated; the township on the north being subdivided,I make a resurvey of the entire bdy, without changing the allignment,as follows:
	From the cor. of Tps. 4 and 5 S. Rs. 5 and 6 E. heretofore described I run
	East bet. secs. 6 and 31
	Over mountainous land
	Through timber
4.00	Begin descent on N.E. slope
13.70	Head of hollow drains N.,100 ft. below cor.
	Begin ascent
20.60	Top of spur ridge projects N.,50 ft. high
	Descending
28.40	Bottom of ravine 50 ft. deep, drains N.
	Ascending
33.00	Top of spur ridge 40 ft. high projects N.
	Descending
37.70	Bottom of hollow 40 ft. deep drains N.

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN

CHAINS.	
	Begin ascent
40.00	The equi-distance bet. cors. Set a sandstone 18x10x5 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	An aspen tree, 5 ins.diam., bears S.46°40'E. 18 lks. dist., marked ¼ S 6 B T
	An aspen tree, 4 ins.diam., bears N.73°30'W. 22 lks. dist., marked ¼ S 31 B T
	No trace of prior cor. could be found; evidences of much logging and wood hauling, and also fire
42.50	Bottom of hollow, drains N., 50 ft. below spur
	Ascending to
48.75	Top of spur ridge, 60 ft. high, projects N.; descend
57.30	Bottom of ravine, 80 ft. deep, drains N.; ascend
70.00	Top of spur ridge, projects N., 120 ft. above ravine
	Thence over rolling slope; timber becomes thin and scattering
78.00	Begin gradual descent
80.00	The equi-distance bet. cors. Set a sandstone 16x7x6 ins. 11 ins. in the ground for.cor. of secs. 5-6-31 and 32, marked with 1 notch on W. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	No trace of prior cor. could be found
	Land. mountainous
	Soil, gravely wash, 3rd rate
	Timber, small aspen and scattering pine
	Mountainous land, 80.00 chs.
	August 28: the sky being overcast during the noon hour I was unable to observe the sun on the meridian
	East bet. secs. 5 and 32
	Over mountainous land
	Descending in scattering timber and dense undergrowth
16.00	Enter bottom of open gulch, bears N. and S. 150 ft. below cor.; leave undergrowth

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN

CHAINS	
20.00	Head of spring, 1.20 chs. diam., drains N., as described by the surveyor general
22.50	Begin abrupt ascent, bears N. and S.
23.00	Leave timber, bears N. and S.
39.00	Ascent becomes gradual, bears N. and S.
40.00	The equi-distance bet. cors. Set a sandstone 18x10x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
	No trace of prior cor. could be found; timber has been destroyed by fire
41.30	Enter timber, bears N. and S.
42.50	A clump of fir trees, 20 lks. diam., as described by the surveyor general, on one of which I found notches on E. and W. sides
44.00	Top of spur ridge, projects N., 420 ft. above gulch
	Begin gradual descent
57.50	Bottom of hollow, drains N., 100 ft. below ridge; ascend
75.00	Top of spur ridge, projecting N., 160 ft. above gulch
	Descend gradually
76.50	Enter burnt and fallen timber
80.00	I find and identify original limestone cor. 18 x 12 x 6 ins. lying on top of ground, notches faintly discernible but stone much disintegrated and in its place I set a quartzite stone 18x9x6 ins. 12 ins. in the ground for cor. of secs. 4-5-32 and 33, marked with 2 notches on W. and 4 notches on E. edges; raised a mound of stones 2 ft base 1½ ft. high W. of cor. Pits impracticable.
	Land, mountainous
	Soil, gravely wash, 3rd rate
	Timber, aspen mainly small and dense, and a few pines
	Mountainous land, 80.00 chs.

August 28: at 3h 31m p.m., 1 m t, I set off 40°25'N. on the lat. arc, 9°43'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4-5-32 and 33

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
	Thence I run
	N.89°03'E. bet. secs. 4 and 33
	Over mountainous land
	Descending abruptly over burnt and dry logs in small aspen timber
3.35	Old road in bottom of gulch, bears N.W. and S.E. as described by the surveyor general; gulch drains N.W., 60 ft. below cor.
	Ascending abruptly in small green timber
19.00	Top of spur ridge, projects N., 180 ft. above gulch
23.00	Begin descent
27.30	Dry wash in hollow 60 ft. deep, drains N.; ascending
30.00	Top of spur ridge projecting N., 50 ft. above hollow
	Thence over rolling, broken slope, ascending gradually
40.75	The equi-distance bet. cors. Set a sandstone 18x9x6 ins 12 ins. in the ground for ¼ sec. cor., marked ¼ on N face; raised a mound of stones 3 ft. base 1½ ft. high N. of cor. Pits impracticable.
	No trace of prior cor. could be found
46.00	Begin descent, bears N. and S.
53.60	Old wood road in bottom of hollow 300 ft. deep, draining N.25°W.; ascend abruptly
78.40	Enter dense aspen timber, bears N. and S.
81.50	The original aspen tree cor. of secs. 3-4-33 and 34, 7 ins. diam., green, marked as described by the surveyor general(and having one stone at its base)from which
	An aspen tree, 5 ins.diam., bearing N.31°32'E. 25 lks dist., I mark T 4 S R 6 E S 34 B T
	An aspen tree, 4 ins.diam., bearing N.86°15'W. 17 lks dist., I mark T 4 S R 6 E S 33 B T
	This cor. stands 230 ft. above hollow
	Land, mountainous
	Soil, gravely wash, 3rd rate
	Timber, small aspen and a few scattering pines
	Much burnt, fallen timber and many stumps
	Mountainous land, 81.50 chs.

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	August 28, 1909.
	August 29: at 7h 30m a.m., l m t, I set off 40°25'N. on the lat. arc, 9°30'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 3-4-33- and 34
	Thence I run
	N.89°03'E. bet. secs. 3 and 34
	Over mountainous land
	Ascending over broken slope through dense aspen timber
5.00	Top of ridge, bears N.W. and S.E., 60 ft. above cor.
	Descending
32.20	Old wood road, bears N.W. and S.E.
35.50	Stream, 3 lks. wide, flows N.25°W. in gulch 290 ft. deep
	Ascending abruptly
40.58	The equi-distance bet. cors. Set a sandstone 16x8x6 ins 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft base 1½ ft. high N. of cor. Pits impracticable.
	This cor. stands in brake and brush 120 ft. above stream
	No trace of prior cor. could be found
55.00	Top of ridge, bears N.W. and S.E., 280 ft. above gulch
	Descending; leave timber, bears N. and S.
73.80	Stream, 3 lks. wide, flows N.20°W. in open gulch 130 ft. below ridge
75.00	Old wood road, bears N.W. and S.E.
78.50	Begin ascent
81.16	The original cor. of secs. 2-3-34 and 35, a dark porphyretic stone 36x13x5 ins., marked and witnessed as described by the surveyor general, stone lying on top of ground under dry fallen pine tree 2 ft. in diam., so I could not reset it, but rebuilt mound 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land, mountainous
	Soil, gravely wash, 3rd rate
	Timber, small sized aspen and a few scattering pines and burnt and dry, fallen logs

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS	
	Mountainous land, 81.16 chs.
	S.87°51'E. bet. secs. 2 and 35
	Over mountainous land
3.00	Ascending gradually on rolling slope through timber
10.00	Top of spur ridge, projects N., 80 ft. above gulch
	Descending
15.20	Stream, 2 lks. wide, flows N.20°W. in hollow 50 ft. deep
	Ascending over broken slope along ridge
40.925	The equi-distance bet. cors. Set a sandstone 18x9x5 ins 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pine tree, 7 ins.diam., bears S.60°50'W. 43 lks. dist., marked ¼ S 2 B T
	A pine tree, 6 ins.diam., bears N.85°40'W. 34 lks. dist., marked ¼ S 35 B T
	No trace of prior cor. could be found
64.80	Begin abrupt ascent
78.00	Leave timber, bears N. and S.
81.85	The original aspen tree, cor. of secs. 1-2-35 and 36 in west edge of grove, is dry and fallen but bearing trees can still be identified; in place of tree cor. I set a porphyretic stone 18x12x6 ins. 12 ins. in the ground for cor. of secs. 1-2-35 and 36, marked with 5 notches on W. and 1 notch on E. edges, from which
	A balsam tree, 8 ins.diam., bears N.18°38'W. 17 lks. dist., marked T 4 S R 6 E S 35 B T
	An aspen tree, 5 ins.diam., bears N.33°03'E. 31 lks. dist., marked T 4 S R 6 E S 36 B T
	No other trees within limit; raised a mound of stones 2 ft base 1½ ft. high W. of cor. Pits impracticable.
	This cor. stands 700 ft. above cor. of secs. 2-3-34 and 35
	Land, mountainous
	Soil, gravely wash, 2nd and 3rd rate

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
	Timber, aspen and pine
	Mountainous land, 81.85 chs.
	August 29: at this cor. I set off 9°24'N. on the decl. arc and at 12h 1m p.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°35'N.
	N.88°54'E. bet. secs. 1 and 36
	Over mountainous land
	Ascending through timber
1.00	Leave timber, bears N. and S.W.
4.00	Enter timber, bears N. and S.
5.00	Top of divide ridge running N. from Bald peak 12 chs. S.; aneroid elev. 9900 ft.
6.50	Begin abrupt descent
34.80	Spring branch, 2 lks.wide, drains N.
36.50	Top of spur ridge 30 ft. high, projects N.E.
38.45	The original ¼ sec. cor., a granite stone 24 x 20 x 12 ins. properly marked, lying face down original bearing trees standing but markings defaced by growth. I reset stone 18 ins. in the ground marked ¼ on N. face, from which
	Original bearing tree, a black balsam 14 ins.diam., bears N.40°E. 18 lks.dist., I mark ¼ S 36 B T
	Original bearing tree, a white pine 18 ins.diam., bears S.45°W. 18 lks.dist., I mark ¼ S 1 B T
	This cor. stands 650 ft. below top of ridge
	Thence I run
	N.89°45'E.
	Over mountainous land
	Descending gradually in timber
0.70	Spring branch, 2 lks. wide, flows N.20°E. in hollow 35 ft. deep
6.90	Stream, 2 lks.wide, flows N. in hollow 25 ft. deep
	Enter head of rolling open gulch
11.30	Dry wash, drains N.30°W. in hollow 20 ft. deep
12.80	Old road, bears N. and S.
28.75	Leave timber, bears N. and S.

RESURVEY OF N. BDY. OF T.5 S. R.6 E., SALT LAKE BASE AND MERIDIAN.

CHAINS.	
34.42	Stream, 3 lks.wide, flows N.W. in hollow 30 ft. deep
41.25	The cor. of Tps. 4 and 5 S. Rs. 6 and 7 E., which is a sandstone 40 x 18 x 14 ins. firmly set, marked, and witnessed as described by the surveyor general
	Land, mountainous
	Soil, gravely wash, 3rd rate
	Timber, pine and aspen
	Mountainous land, 79.70 chs.
	August 28, 1909.

GENERAL DESCRIPTION.

For general description see field notes of the Subdivision of this township.

Frederick W. Hanson

Compassman.

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Page

RETRACEMENT OF EAST BDY. OF T.5 S. R.6 E.

CHAINS.	
	Sept. 15: being unable to close around sec. 1 with data at hand I retrace the E. bdy. as follows:
	From the closing cor. of secs. 1 and 6 T.5 S. Rs.6 and 7 E. on the Uintah Indian Reservation boundary, which is a stone 37 x 17 x 4 ins. firmly set, marked, and witnessed as described by the surveyor general, I run
	North bet. secs. 1 and 6
19.40	The ¼ sec. cor., a quartzite stone 8x7x6 ins. above ground, bears west 4 lks. dist., firmly set and properly marked and witnessed as described by the surveyor general
59.10	The cor. of Tps. 4 and 5 S. Rs. 6 and 7 E., heretofore described, bears west 12 lks. dist., and the course of the line is therefor N.0°07'W. instead of North and the distance is 59.10 chs. instead of 59.88 chs. as described by the surveyor general
	This Tp. cor. stands 400 ft. below closing cor.
	Mountainous land, 59.10 chs.
	September 15, 1909.

GENERAL DESCRIPTION.

For general description see field notes of the subdivision of this Tp.,

Frederick W. Hanson
Compassman.

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Page

BOUNDARIES OF T. 5 S., R. 6 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Line Designated	True Bearing	Dist.	Latitudes N. chs.	Latitudes S. chs.	Departures E. chs.	Departures W. chs.
East Boundary, (irregular west boundary of Uintah Indian Reservation.)	N.46°30'E.	2.82	1.94	.....	2.04	.....
	N.26°15'W.	21.50	19.28	.....	.....	9.51
	N.20°30'E.	16.90	15.83	.....	5.92	.....
	N.37°45'W.	23.30	18.43	.....	.....	14.27
	N.53°00'E.	27.70	16.67	.....	22.12	.....
	N.13°00'E.	16.60	16.17	.....	3.73	.....
	N.17°15'W.	4.50	4.30	.....	.....	1.33
	N.26°30'W.	14.90	13.33	.....	.....	6.65
	N.14°00'E.	15.60	15.14	.....	3.77	.....
	N.37°15'W.	4.40	3.50	.....	.....	2.66
	N. 6°45'W.	29.00	28.80	.....	.....	3.41
	N.17°15'W.	8.30	7.92	.....	.....	2.46
	N.10°45'E.	49.20	48.34	.....	9.17	.....
	N.25°45'W.	3.50	3.15	.....	.....	1.52
	N. 2°00'W.	14.00	13.99	.....	.....	0.49
	N.30°30'E.	5.50	4.74	.....	2.79	.....
	N. 4°00'W.	14.20	14.17	.....	.....	0.99
	N.35°45'E.	6.30	5.11	.....	3.68	.....
	N. 7°45'E.	15.70	15.56	.....	2.12	.....
	N.20°30'W.	16.30	15.27	.....	.....	5.71
	N.19°45'E.	82.40	77.55	.....	27.84	.....
	N.32°15'W.	31.00	26.22	.....	.....	16.54
	N. 0°45'W.	14.60	14.60	.....	.....	0.19
	N.34°00'E.	28.40	23.55	.....	15.88	.....
	N.67°30'E.	46.60	17.83	.....	43.05	.....
	N. 5°00'E.	5.00	4.98	.....	0.43	.....
	N.25°30'E.	20.60	18.59	.....	8.87	.....
	S.43°45'E.	28.60	.....	20.66	19.78	.....
	S.66°15'E.	49.80	.....	20.06	45.58	.....
	S.37°30'E.	8.90	.....	7.06	5.42	.....
	N. 0°07'W.	59.10	59.10	.....	.....	0.12
North Boundary	S.89°45'W.	41.25	.....	.54	.....	41.25
	S.88°54'W.	38.45	.....	.74	.....	38.44
	N.87°51'W.	81.85	3.07	.....	.....	81.79
	S.89°03'W.	162.66	.....	2.70	.....	162.64
West Boundary	West	160.00	.....	.....	.....	160.00
	South	161.37	.....	161.37	.....	.....
	S. 0°03'W.	80.40	.....	80.40	.....	0.07
	S. 0°10'W.	78.80	.....	78.80	.....	0.23
	S. 0°04'W.	74.60	.....	74.60	.....	0.09
1st St.Par.S.	South	80.00	.....	80.00	.....	.....
	East	328.93	.....	.....	328.93	.....
Convergency				.....		0.41
Totals			527.13	526.93	551.12	550.77
			526.93		550.77	
Errors in lat.and dep.			0.20		0.35	

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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 Frederick W. Hanson, Compassman for Andrew P. Hanson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the resurvey of East, West, and North Boundaries of Township 5 S., Range 6 E. of S.L.B.& M., Utah, stating the respective capacities in which they acted:

Alva Davis, *Chainman.*

G.G.Greer, *Chainman.*

Parley Davis, *Moundman.*

G.G.Greer, *Moundman.*

Ezra Greer, *Axman.*

Parley Davis, *Axman.*

A.P.Hanson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson, Compassman for A. P. Hanson, United States Deputy Surveyor, in surveying all parts or portions of the resurvey of the East, West, and North Boundaries of Township No.5 South, Range No.6 East 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 was 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 for Utah.

Alva Davis, *Chainman.*

G G Greer, *Chainman.*

Parley Davis, *Moundman.*

G G Greer, *Moundman.*

Ezra Greer, *Axman.*

Parley Davis, *Axman.*

A P Hanson, *Flagman.*

Subscribed and sworn to before me this 16 day of September, 1909

SEAL

Frederick W. Hanson

Compassman.

6

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson

I, Frederick W. Hanson, Compassman for, 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 18 day of May, 190 5, 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 resurvey of the East, West, and North Boundaries of Township No. 5 South, Range No. 6 East

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

Frederick W. Hanson
Compassman for Andrew P. Hanson
United States Deputy Surveyor.

Subscribed by said Frederick W. Hanson, and sworn to before me this 2 day of February, 1911. 190x

Thomas Hill
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 1911 190

The foregoing field notes of the survey of the East, West, and North Boundaries of Township No. 5 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the 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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4—679.

Filed July 22, 1910.

BOOK A-359

M.

8.03.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

O F

TOWNSHIP NO. 5 SOUTH,

RANGE NO. 6 EAST

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Frederick W. Hanson, Compassman for Andrew P. Hanson, *United States Deputy Surveyor,*

er his Contract No. 289, *dated* May 18, *19*05,

ey commenced August 26, *19*09,

ey completed September 16, *19*09.

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Engfr 45-17-78

Closing 1-01-55

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BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Alva Davis,	Chainman.
G.G.Greer,	Chainman.
Parley Davis,	Moundman.
G.G.Greer,	Moundman.
Ezra Greer,	Axman.
Parley Davis,	Axman.
A.P.Hanson,	Flagman.

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BOOK A-359

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

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

Meanders Page .....

2

BOOK A-368

PRELIMINARY OATHS OF ASSISTANTS.

We, Alva Davis and G. G. Greer 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 Subdivision lines of Township 5 South Range 6 East, ~~and Township 6 South Range 5 and 6 East~~, S. L. B. & M.

Alva Davis, Chainman.
G. G. Greer, Chainman.

Subscribed and sworn to before me this 23rd day of August, 1909

SEAL

Don L. Bigelow
Notary Public

We, Parley Davis and G. G. Greer 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 Subdivision lines of Township 5 South Range 6 East S. L. B. and M.

Parley Davis, Moundman.
G. G. Greer, Moundman.

Subscribed and sworn to before me this 23rd day of August, 1909

SEAL

Don L. Bigelow
Notary Public

We, Ezra Greer and Parley Davis 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 Subdivision lines of Township 5 South Range 6 East S. L. B. and M.

Ezra Greer, Axman.
Parley Davis, Axman.

Subscribed and sworn to before me this 23rd day of August, 1909

SEAL

Don L. Bigelow
Notary Public

I, A. P. Hanson, 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 Subdivision lines of Township 5 South Range 6 East S. L. B. and M.

A. P. Hanson, Flagman.

Subscribed and sworn to before me this 23rd day of August, 1909

SEAL

Don L. Bigelow
Notary Public.

My Commission Expires Jan. 9 1911.

SUBDIVISION OF T. 5 S.R. 6 E.

CHAINS.	
	Survey commenced August 26, 1909 and executed with a Gurley Light Mountain Transit 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 verniers of the lat. and decl. arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct , and was approved by the surveyor general for Utah, August 21, 1909.
	NOTE.- For examination of adjustments of transit and test of solar attachment this day, see field notes of First Standard Parallel South through Range 5 East Book K. reference to which is hereby made.
	August 26, 1909.
	August 30: Having completed the resurvey of the W. bdy. of Tp. as recorded in preceding Book , I go to the Standard cor. of secs. 31 and 32 on S. bdy. of Tp. as set by me August 24, 1909 and at 8h 10m A.M. l.m.t. set off 40°30'N. on the lat. arc, 9°07'[illegible]"N. on the decl. arc, determining a true meridian with the solar attachment. The magnetic bearing of the true meridian at 8h 15m A.M. is N.17°10'W.; the angle thus determined gives the magnetic decl. N.17°10'E.
	From the cor. above described I run
	N.0°01'E. bet. secs. 31 and 32
	Over mountainous and heavily timbered land
	Descending gradually on N.W. slope along ridge
6.80	Old log road, bears N.W. and S.E.
8.89	Old road from Wallsburg to Daniel's Canyon, bears N.W. and S.E.
20.00	Cross divide ridge, bears northwesterly and southeasterly

S SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.

Slope becomes northeasterly

40.00 Set a sandstone 18x6x6 ins. 12 ins. in the ground for ¼ sec. cor. secs. 31 and 32, marked ¼ on W. face, from which

An aspen tree, 4 ins. diam., bears N.81°30'W. 34 lks. dist., marked ¼ S 31 B T

An aspen tree, 5 ins. diam., bears N.56°15'E. 43 lks. dist., marked ¼ S 32 B T

80.00 Set a sandstone 18x12x9 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

A pine tree, 9 ins. diam., bears N.87°19'E. 179 lks. dist., marked T.5 S R 6 E S 29 B T

A pine tree, 8 ins. diam., bears N.58°24'W. 100 lks. dist., marked T 5 S R 6 E S 30 B T

A pine tree, 10 ins. diam., bears S.71°06'W. 62 lks. dist., marked T 5 S R 6 E S 31 B T

A pine tree, 7 ins. diam., bears S.74°26'E. 109 lks. dist., marked T 5 S R 6 E S 32 B T

This cor. stands 390 ft. below the Standard cor.

Land, mountainous

Soil, gravely wash; 2nd and 3rd rate

Timber, aspen and pine of about equal amount , large size, and fairly dense growth

Mountainous and heavily timbered land, 80.00 chs.

West on a random line bet. secs. 30 and 31

40.00 Set temp. ¼ sec. cor.

79.82 Intersect W. bdy. of township 7 lks. N. of cor. of secs. 25-30-31 and 36, heretofor described

Thence I run

N. 0°57'E. on a true line bet. secs. 30 and 31

Over mountainous and heavily timbered land

6.00 Begin gradual descent along E. slope

[illegible].01 Set a sandstone 1[illegible]x7x6 ins. 12 ins. in the ground for

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	¼ sec. cor. secs. 30 and 31, marked ¼ on N. face, from which
	A pine tree, 8 ins. diam., bears N.15°45'E. 40 lks. dist., marked ¼ S 30 B T
	A pine tree, 10 ins. diam., bears S.3°40'E. 46 lks. dist., marked ¼ S 31 B T
54.80	Descent becomes abrupt on S.E. slope
63.85	Dry wash, drains N.E. in steep narrow gulch, 385 ft. below sec. cor.
	Ascend on N.W. slope
74.60	Top of gulch and spur ridge, bears N.E. and S.W., 70 ft. above wash
	Thence on gradual descent in scattering timber
79.82	The cor. of secs. 29-30-31 and 32
	Land, mountainous
	Soil, gravely wash, 2nd and 3rd rate
	Timber, aspen and pine of fair size and growth
	Mountainous and heavily timbered land, 79.82 chs.
	August 30: At this cor. I set off 9°03'[illegible]"N. on the decl. arc and at 12h 01m P.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°21'N.
	N.0°01'E. bet. secs.29 and 30
	Over mountainous land
	Descending gradually
6.00	Enter timber, bears N.E. and S.W.
8.00	Begin abrupt descent in gulch, bears N.E. and S.W., in dense undergrowth and scattering pine
15.45	Stream 2 lks. wide, flows N.70°E. in bottom of narrow gulch, 365 ft. below cor.
	Ascend abruptly in dense aspen timber
21.40	Top of spur ridge projecting N.75°E., 300 ft. above stream
	Descending gradually
30.00	Set a sandstone 18x9x8 ins., 12 ins. in the ground for ¼ sec. cor. secs. 29 and 30, marked ¼ on W. face,

SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.	
	from which
	A pine tree, 10 ins. diam., bears S.64°50'E. 42 lks. dist., marked ¼ S 29 B T
	A pine tree, 6 ins. diam., bears S.22°55'W. 33 lks. dist., marked ¼ S 30. B T
40.70	Descent becomes abrupt, bears E. and W.
50.35	Stream, 4 lks. wide, flows E. in bottom of narrow gulch 240 ft. below ridge
	Begin abrupt ascent
58.60	Top of spur ridge, bears E. and W., 175 ft. above stream
	Descending over rolling slope in scattering aspen and pine timber and dense brush
80.00	Set a sandstone 17x8x6 ins., 11 ins. in the ground for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, from which
	An aspen tree 5 ins. diam., bears S.77°W. 14 lks. dist., marked T 5 S R 6 E S 30 B T
	An aspen tree, 4 ins. diam., bears S.35°E. 8 lks. dist., marked T 5 S R 6 E S 29 B T
	An aspen tree, 5 ins. diam., bears N.63°05'W. 25 lks dist., marked T 5 S R 6 E S 19 B T
	An aspen tree, 4 ins. diam., bears N.75°57'E. 5 lks. dist., marked T 5 S R 6 E S 20. B T
	This cor. stands 130 ft. below top of ridge
	Land, mountainous
	Soil, gravely and rocky, 2nd and 3rd rate
	Timber, aspen of small size and dense growth and scattering pine
	Dense larbe willow and thorn undergrowth
	Mountainous and heavily timbered land, 80.00 chs.
	August 30, 1909.

August 31; At 7h 30m A.M. l.m.t. I set off 40°32'00"N. on the lat. arc, 8°46'N. on the decl. arc and determine a true meridian with the solar attachment at the cor. of secs. 19-20-29 and 30

SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.	
	Thence I run
	S.89°57'W. on a random line bet. secs. 19 and 30
40.00	Set temp. ¼ sec. cor.
79.78	Intersect W. bdy. of Tp. 26 lks. N. of cor. of secs. 19 and 30, heretofore described
	Thence I run
	N.89°46'E. on a true line bet. secs. 19 and 30
	Over mountainous and heavily timbered land
	Descending rolling E. slope
27.30	Hollow, 40 ft. deep, drains N.E.
39.89	Set a sandstone 18x10x6 ins. 12 ins. in the ground for ¼ sec. cor. secs. 19 and 30, marked ¼ on N. face.
	from which
	A pine tree, 7 ins. diam., bears S.13°03'W. 42 lks. dist., marked ¼ S 30 B T
	A pine tree, 10 ins. diam., bears N.20°30'W. 40 lks. dist., marked ¼ S 19 B T
52.40	Wash in hollow, drains N.E.
63.00	Spur ridge 30 ft. high projects N. E.
76.18	Stream, 1 lk. wide, in rocky run, drains N.E.
79.78	The cor. of secs. 19-20-29 and 30
	This cor. stands 400 ft. below cor. of secs. 19 and 30 on W. bdy.
	Land, mountainous
	Soil, gravely wash, 2nd and 3rd rate
	Timber, aspen of dense growth and scattering pine
	Mountainous and heavily timbered land, 79.78 chs.
	N.0°01'E. bet.secs. 19 and 20
	Over mountainous land
	Descending gradually on broken slope through scattering timber
3.90	Wash in hollow, drains N.E. 30 ft. below cor.
	Timber becomes dense in growth
28.46	Stream 3 lks. wide, flows N.60°E. in hollow 260 ft. below cor.
	Ascending
30.45	Top of spur ridge, projecting N.60°E., 35 ft. high

SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.	
	Descending gradually
40.00	Set a sandstone 17x6x6 ins. 11 ins. in the ground for ¼ sec. cor. secs. 19 and 30, marked ¼ on W. face, from which
	An aspen tree, 4 ins. diam., bears S.31°51'W. 6 lks. dist., marked ¼ S 19 B T
	An aspen tree, 4 ins. diam., bears N.20°45'E. 12 lks dist., marked ¼ S 30 B T
	August 31: At this cor. I set off 8°41'N. on the decl. arc and at 12h 00m l.m.t. observe the sun on the meridian; the resulting lat. is 40°22'N.
56.60	Edge of break to canyon, bears W. and S.65°E., 150 ft. below ridge
	Leave timber and begin descent on 36° slope in thorny underbrush
65.82	Stream, 3 lks. wide, flows N.75°E. in bottom of narrow canyon 360 ft. below break
	Begin abrupt ascent in slide rock and mahogany timber
74.20	Spur, projects S.E., 285 ft. above stream
	Thence on steep E. slope; leave timber
80.00	Set a sandstone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 17-18-19 and 20, marked with 3 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land, mountainous
	Soil, gravely wash and slide rock; 3rd and 4th rate.
	Timber, aspen of small size and dense growth, and scrubby mountain mahogany
	Mountainous and heavily timbered land, 80.00 chs.
	S.89°46'W. on a random line bet, secs. 18 and 19
40.00	Set temp. ¼ sec. cor.
79.84	Intersect W. bdy. of Tp. 20 lks. S. of cor. of secs. 18 and 19, heretofore described
	Thence I run N.89°55'E. on a true line bet. secs. 18.

SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.	
	and 19
	Over mountainous and heavily timbered land
	Descending gradually on N. slope
18.50	Top of low spur ridge, projects N.55°E.; thence on E. slope
35.90	Dry wash in hollow, drains N.E. 150 ft. below cor.
	Ascending
37.00	Top of spur ridge, projects N.E., 90 ft. above wash
	Descending gradually
39.92	Set a sandstone 18x9x6 ins., 13 ins. in the ground for ¼ sec. cor. secs. 18 and 19, marked ¼ on N. face, from which
	An aspen tree, 4 ins. diam., bears S.33°15'W. 11 lks. dist., marked ¼ S 19 B T
	An aspen tree, 5 ins. diam., bears N.65°20'E. 10 lks. dist., marked ¼ S 18 B T
45.00	Begin abrupt descent, bears N.E. and S.W.
47.03	Stream, 3 lks. wide, flows N.E. in bottom of sharp narrow gulch, 135 ft. below top of ridge
	Ascending along N.W. slope
52.60	Top of ascent and spur ridge, projects N.60°E. 60 ft. above stream
	Begin gradual descent on rolling slope
77.35	Top of break to Daniel's Canyon, bears N. and S., 120 ft. below top of spur; leave timber, bears N. and S.
	Begin descent on 33° slope
79.84	The cor. of secs. 17 -18-19 and 20
	Land, mountainous
	Soil, gravely wash, and stony; 2nd to 4th rate
	Timber, aspen of small size and very dense growth, and a few scattering pines.
	Willow and thorn undergrowth
	Mountainous and heavily timbered land, 79.84 chs.
	August 31, 1909.

SUBDIVISION OF T.5 S.R. 6 E.

CHAINS.	
	September1:I run
	N.0°01'E. bet. secs. 17 and 18
	Over mountainous land
	Along steep E. slope
3.00	Enter dense undergrowth
4.00	Sharp spur, projects E.
	Begin abrupt descent on N.E. slope
23.10	Stream, 3 lks. wide, flows N.65°E. in bottom of sharp ravine
29.70	Top of spur ridge, projecting N.65°E. 130 ft. above ravine
40.00	Set a sandstone 36x6x6 ins., 19 ins. in the ground for ¼ sec. cor. secs. 17 and 18, marked ¼ on W. face from which
	A cedar tree, 4 ins. diam., bears N.46°27'E. 35 lks. dist., marked ¼ S 17 B T
	No other bearing trees available.
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
45.40	Foot of slope, bears N.W. and S.E.; enter bottom of Daniel's Canyon, 980 ft. below sec. cor.
45.70	Daniel's Creek, 30 lks. wide, flows N.W., swift current good water
47.40	County road from Provo River Valley to Strawberry Valley in bottom of canyon, bears N. W. and S. E.
49.50	Stream, 2 lks. wide, flows W. in mouth of Cleggs Canyon, 2 chs. E. of junction with Daniel's Creek
51.00	Begin abrupt ascent on S. slope
51.75	Top of spur ridge, projects W. 26 ft. high
	Begin gradual descent on W. slope
70.00	Enter bottom of Daniel's Canyon, bears N.20°E. and S. 20°W.
72.30	Daniel's Creek, 25 lks. wide, swift current, flows N.20°E.
75.10	U.S. Geol. Sur. Elevation hub, an iron pipe with copper

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	cap, marked Elev. 6580, bears E.72 lks., in clear space on W. bank of creek
76.00	County road, bears N.20°E. and S.20°W. ;Provo River Valley to Strawberry valley.
	Thence along steep E. slope
80.00	Set a sandstone 18x10x7 ins., 12 ins. in the ground for cor. of secs. 7-8-17 and 18, marked with 4 notches on S. and 5 notches on E. edges, from which
	A maple tree, 4 ins. diam., bears S.5°05'W. 36 lks. dist., marked T 5 S R 6 E S 18 B T
	An alder tree, 6 ins. diam., bears S.73°40'E. 79 lks dist., marked T.5 S R 6 E S 17 B T
	No other trees within limit. Raise a mound of stone 3 ft. base 1½ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous
	Soil, gravelly wash and boulders; 3rd rate.
	Timber, scattering trees on slopes and fringe along creek
	Dense, tall brush undergrowth
	Mountainous land, 80.00 chs.
	Sept. 1: at this cor. I set off 8°20'00"N. on the decl. arc and at 12h 00m l.m.t. observe the sun on the meridian; the resulting lat. is 40°23'[illegible]"N.
	S.89°55'W. on a random line bet. secs. 7 and 18
40.00	Set temp. ¼ sec. cor.
79.90	Intersect W. bdy. of Tp. at cor. of secs. 7 and 18, heretofore described
	Thence I run
	N.89°55'E. on a true line bet. secs. 7 and 18
	Over mountainous land
	Along gentle S. slope and gradual descent
5.00	Enter dense small aspen timber, bears N. and S.
36.00	Timber becomes scattering and descent more abrupt
39.95	Set a sandstone 18x9x5 ins. 12 ins. in the ground for

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.

¼ sec. cor. secs. 7 and 18, marked with ⅛ on N. face
Raised a mound of stones 3 ft. base 1½ ft. high,
N. of cor.
Pits impracticable.

September 1: at this cor. I set off 40°23'[illegible]"N. on the lat. arc, 8°17'N. on the decl. arc, and at 3h 10m P.M. l.m.t. determine a true meridian with the solar attachment.

78.00 Break of canyon, bears N. and S., 300 ft. below sec. cor
Begin abrupt descent in boulders and slide rock

79.90 The cor. of secs. 7-8-17 and 18
This cor. stands 10.70 ft. below the break
Land, mountainous
Soil, gravely wash and rocky, 3rd and 4th rate.
Timber, aspen of dense growth and small size and dense willow thorn and oak brush
Mountainous land, 79.90 chs.

September 1, 1909.

September 2: at 7h 38m A.M. l.m.t. I set off 40°23'[illegible]"N. on the lat. arc, 8°03'[illegible]"N. on the decl. arc, and determine a meridian at the cor. of secs. 7-8-17 and 18

Thence I run
N.0°01'E. bet. secs. 7 and 8
Over mountainous land
Descending gradually along steep rough E. slope near bottom of canyon
Through dense tall undergrowth

1.47 County road, bears N.W. and S.E. in bottom of canyon; Provo River Valley to Strawberry Valley.
19.75 Daniel's Creek, flows N.W., swift current, 24 lks. wide
20.50 Begin abrupt ascent on S.W. slope in slide rock, bears N.W. and S.E.
25.80 Leave slide rock; enter dense undergrowth, bears E. and W.
40.00 Set a sandstone 17x9x7 ins., 11 ins. in the ground for

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	$\frac{1}{4}$ sec. cor. secs. 7 and 8, marked $\frac{1}{4}$ on W. face; raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
43.70	Top of spur ridge projecting S.80°W., 250 ft. above creek
	Begin abrupt descent
48.05	Bottom of Dry Canyon, drains S.85°W., 125 ft. below spur
	Ascending abruptly
73.00	Ascent becomes gradual on W. slope
80.00	Set a sandstone 18x6x6 ins. 12 ins. in the ground for cor. of secs. 5-6-7 and 8, marked with 5 notches on S. and E. edges; raised a mound of stones 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
	This cor. stands 400 ft. below bottom of Dry canyon
	Land, mountainous
	Soil, gravely wash, clay, and boulders
	No timber
	Dense oak and thorn underbrush
	Mountainous land, 80.00 chs.
	S.89°55'W. on a random line bet. secs. 6 and 7
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect W. bdy. of Tp. 13 lks. S. of cor. of secs. 6 and 7, heretofore described
	Thence I run
	E. on a true line bet. secs. 6 and 7
	Over mountainous land
	Descending abruptly on side of canyon in dense undergrowth
25.50	Bottom of Daniel's Canyon, bears N.W. and S.E., 60 ft. below sec. cor.
25.80	County road, runs N.W. and S.E.
27.56	Daniel's Creek, 25 lks. wide, flows N.W., swift current
30.00	Begin abrupt ascent
39.93	Set a sandstone 17x11x5 ins., 11 ins. in the ground for $\frac{1}{4}$ sec. cor. secs. 6 and 7, marked $\frac{1}{4}$ on N. face;

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
79.86	The cor. of secs. 5-6-7 and8
	This cor. stands 600 ft. above creek
	Land, mountainous
	Soil, gravely wash, clay, and boulders; 3rd rate
	No timber
	Dense thorn and oak undergrowth
	Mountainous land, 79.86 chs.
	September 2: at this cor. I set off 7°58' N. on the decl. arc, and at 12h 00m l.m.t. observe the sun on the meridian; the resulting lat, is 40°34' "N.
	N.0°01'E. on a random line bet. secs. 5 and 6
40.00	Set temp. ¼ sec. cor.
75.12	Intersect N. bdy. of Tp. 32 lks. W. of cor. of secs. 5-6-31 and 32, heretofore described
	Thence I run
	S.0°10'W. on a true line bet. secs. 5 and 6
	Over mountainous land
	Ascending in dense timber and undergrowth
32.50	Top of slope, bears E. and W., 325 ft. above cor.
	Leave timber, bears E. and W., and descend gradually
35.12	Set a sandstone 18x9x5 ins. 12 ins. in the ground for ¼ sec. cor. secs. 5 and 6 , marked ¼ on W. face, raised a mound of stones 2 ft. base 1½ ft. high, W. of cor.
	Pits impracticable.
	This cor. stands in head of swale, drains E.
	Ascending
38.10	Top of long dividing ridge bet. Daniel's Creek and Center Creek watersheds, bears N.65°W. and S.65°E.
	Begin descent
42.00	Descent becomes abrupt on broken slope, bears N.65°W.

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	and S.65°E.
75.13	The cor. of secs. 5-6-7 and8
	This cor. stands 650 ft. below top of ridge
	Land, mountainous
	Soil, gravely wash, clay, and slide rock: 2nd to 4th rate
	Timber, aspen of small size and dense growth and scattering pine.
	Dense oak and thorn underbrush
	Mountainous land, 75.13 chs.
	September 2, 1909.

	September 3: at 7h.35m A.M. l.m.t. I set off 40°20'N. on the lat. arc, 7°41' N. on the decl. arc and determine a meridian with the solar attachment at the Standard cor. of secs. 33 and 34 on S. bdy. of Tp., heretofore described
	Thence I run
	N.0°02'E. bet. secs. 32 and 33
	Over mountainous and heavily timbered land
	Descending on broken N.E. slope in heavy timber
25.00	Top of break to canyon, bears N.E. and S.W., 145 ft. below cor.
	Begin abrupt descent; enter dense undergrowth
	Timber becomes scattering, bears N.E. and S.W.
40.00	A stationary sandstone 7x7x6 ins. above ground for ¼ sec. cor. secs. 32 and 33, I mark ¼ on W. face, from which
	An aspen tree, 4 ins. diam., bears N.71°45'W. 34 lks. dist., marked ¼ S 32 B T
	An aspen tree, 4 ins. diam., bears N.23°50'E. 69 lks. dist., marked ¼ S 33 B T
45.60	Dry wash, drains N.55°E. in narrow canyon 550 ft. below break
	Begin abrupt ascent

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
54.00	Top of spur ridge, projects E., 180 ft. high
	Descend steep N. slope
58.53	Stream, 3 lks. wide, flows E. in narrow canyon, 100 ft. below spur
	Ascending on 35° slope
73.50	Top of spur ridge, projects E., 550 ft. above stream
	Descending
76.00	Enter small aspen timber
80.00	Set a sandstone 18x8x6 ins. 12 ins. in the ground for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges, from which
	An aspen tree, 4 ins. diam., bears N.34°W. 19 lks. dist., marked T.5 S R 6 E S 29 B T
	An aspen tree, 4 ins. diam., bears N.9°37'E. 57 lks. dist., marked T 5 S R 6 E S 28 B T
	An aspen tree, 4 ins. diam., bears S.8°05'E. 46 lks. dist., marked T 5 S R 6 E S 33 B T
	A pine tree, 14 ins. diam., bears S.71°18'W. 208 lks dist., marked T 5 S R 6 E S 32 B T
	This cor. stands 60 ft. below ridge
	Land, mountainous
	Soil, gravely wash and boulders; 2nd and 3rd rate
	Timber, aspen of small size mainly, and scattering pine
	Dense thorn underbrush
	Mountainous land, 80.00 chs.
	Sept.3: at this cor. I set off 7°36' N. on the decl. arc and at 11h 59m l.m.t. observe the sun on the meridian; the resulting lat. is 40°21'N.
	W. on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
79.84	Intersect N. and S. line 12 lks. N. of cor. of secs. 29-30-31 and 32
	Thence I run
	N.89°55'E. on a true line bet. secs. 29 and 32

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Descending
7.00	Enter timber, bears N. and S.
9.75	Bottom of draw drains N.15°E.
	Ascending gradually
32.00	Top of low spur ridge, projects N.
	Thence along broken N.E. slope, descending
39.92	Set a sandstone 24x6x6 ins. 18 ins. in the ground for ¼ sec. cor. secs. 29 and 32, marked ¼ on N. face, from which
	An aspen tree, 6 ins. diam., bears S.4°00'W. 63 lks. dist., marked ¼ S 32 B T
	An aspen tree, 7 ins. diam., bears N.49°33'W. 21 lks.dist., marked ¼ S 29 B T
79.84	The cor. of secs. 28-29-32 and 33
	This cor. stands 300 ft. below the cor. of secs. 29-30-31 and 32
	Land, mountainous
	Soil, gravely wash; 2nd and 3rd rate
	Timber, aspen and scattering pine
	Mountainous land, 79.84 chs.

	N.0°03'E. bet. secs. 28 and 29
	Over mountainous land
	Descending in scattering timber
1.94	Dry wash in hollow, drains E., 20 ft. below cor.
	Ascending
10.50	Top of spur ridge, projects easterly, 85 ft.above wash
	Enter dense aspen brake and undergrowth
11.75	Edge of break to Daniel's Canyon, bears N.W. and S.E.
	Begin abrupt descent on N.E. slope
40.00	Set a sandstone 18x12x6 ins. 12 ins. in the ground for ¼ sec. cor.secs. 28 and 29, marked ¼ on W. face; from which
	A pine tree, 7 ins. diam., bears N.64°50'W. 51 lks. dist., marked ¼ S 29 B T

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	No other trees within limit; raised a mound of stones 2 ft. base 1½ ft. high, W. of cor.
50.75	Bottom of Daniel's Canyon and W. edge of creek from S.W. turns N., 950 ft. below break
51.96	Creek, turns N.E. at bridge; thence along W. edge of County road
54.50	County road turns N.W.; **Provo River Valley to Strawberry Valley.** Descend.
55.25	Daniel's Creek, 26 lks. wide, swift current, flows N.35°W. in bottom of narrow canyon
57.00	Begin abrupt ascent on broken S.W. slope
80.00	Set a sandstone 18x11x5 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
	Raised a mound of stones , 2 ft. base 1½ ft. high W. of cor.
	The cor. stands 500 ft. above bottom of gulch
	Land, mountainous
	Soil, rocky and gravely; 3 rd rate
	Timber, aspen brake and a few scattering pines
	Dense oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	Sept. 3, 1909.
	Sept. 4: I run
	S.89°55'W. on a random line bet. secs. 20 and 29
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 16 lks. S. of cor. of secs. 19-20-29 and 30.
	Thence I run
	S.89°58'E. on a true line bet. secs. 20 and 29
	Over mountainous land
	Along N. slope in small aspen timber, on gradual ascent
5.00	Top of low spur ridge, projects N.
	Descending over rolling surface to

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
24.00	Leave timber, bears N. and S.
27.50	Wash, drains N. in hollow, 130 ft. below spur
	Begin gradual ascent
34.10	Edge of break of Daniel's Canyon, bears N. and S.
	Begin abrupt descent
40.00	Set a sandstone 18x6x6 ins. 12 ins. in the ground for ¼ sec. cor. secs. 20 and 29, marked ¼ on N. face; raised mound of stones 2 ft. base 1½ ft. high N. of cor.
64.65	County road, bears N.W. and S.E.;Provo River Valley to Strawberry Valley.
64.90	Enter bottom of Daniel's Canyon, bears N.W. and S.E., 980 ft. below break
66.00	Daniel's Creek, 26 lks.wide, flows N.W.; swift current
67.00	Begin abrupt ascent
80.00	The cor. of secs. 20-21-28 and 29
	This cor. stands 590 ft. above creek
	Land, mountainous
	Soil, rocky and gravely; 4th rate
	Timber, aspen of small size, and a few pines and mahogany, scattering on sides of canyon
	Dense oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	Sept. 4: at this cor. I set off 7°14' "N. on the decl. arc and at 11h 59ml.m.t. observe the sun on the meridian; the resulting lat. is 40°31'30"N.

	N.0°02'E. bet. secs. 20 and 21
	Over mountainous land
	Ascending on abrupt slope on side of canyon
15.00	Top of break to Daniel's Canyon, bears N.25°E. and S.E. 400 ft. above cor.
	Descending on N.W. slope to
19.90	Head of ravine, drains westerly, 100 ft. deep
	Ascending
23.75	Edge of break to canyon, bears N.W. and S.E.

BOOK A-359

CHAINS.	
	Enter level bench and dense small aspen timber
27.97	Top of spur ridge, projects N.W.
	Begin descent on 34° N.slope
40.00	Set a sandstone 18x7x6 ins. 12 ins. in the ground for ¼ sec. cor. secs. 20 and 21, marked ¼ on W.face from which
	An aspen tree, 4 ins. diam., bears N.77°30'W. 10 lks. dist., marked ¼ S 20 B T
	No other trees within limit; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Sept.4: at this cor. I set off 40°22'N. on the lat. arc 7°11'N. on the decl. arc, and at 3h P.M. l.m.t. determine a meridian with the solar
54.35	Enter bottom of Center Canyon, course W., 1020 ft. below spur
54.60	Old wood road, bears E. and W.
55.05	Dry wash, drains W.
	Begin abrupt ascent
55.60	Leave aspen and brush and enter mountain mahogany timber
76.60	Leave mahogany timber, bears E. and W.
78.00	Top of spur ridge, projects S.60°W., 480 ft. above wash
	Begin descent; enter dense,small aspen timber
80.00	Set a sandstone 18x9x5 ins. 12 ins. in the ground for cor. of secs. 16-17-20 and 21, marked with 3 notches on S. and 4 notches on E. edges, from which
	An aspen tree, 4 ins. diam., bears S.6°40'E. 23 lks. dist., marked T 5 S R 6 E S 21 B T
	An aspen tree, 4 ins. diam., bears S.20°20'W. 7 lks. dist., marked T 5 S R 6 E S 20 B T
	An aspen tree, 4 ins. diam., bears N.35°25'E. 5 lks. dist., marked T 5 S R 6 E S 16 B T
	An aspen tree, 4 ins. diam., bears N.51°W. 13 lks. dist., marked T 5 S R 6 E S 17 B T
	This cor. stands on N. slope 35 ft. below top of spur
	Land, mountainous

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Soil, gravely wash and boulders; 3rd rate
	Timber, aspen of small size and dense growth, and mountain mahogany
	Oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	Sept. 4, 1909.
	Sept.5: at 7h 21m A.M. l.m.t. I set off 40°[illegible]'[illegible]. on the lat. arc, 6°57'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 16-17-20 and 21; thence I run
	N.[illegible]°58'W. on a random line bet. secs. 17 and 20
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line at cor. of secs. 17-18-19 and 20
	Thence I run
	S.[illegible]°58'E. on a true line bet. secs. 17 and 20
	Over mountainous land
	Descending abrupt slope
19.06	Stream, 2 lks. wide, flows N.E. in bottom of ravine
	Ascending
23.50	Top of spur ridge, projects N.W., 90 ft. high
	Begin abrupt descent
25.00	Enter bottom of Daniel's Canyon, course N.W., 775 ft. below cor.; enter dense timber
27.96	Daniel's Creek, 25 lks. wide, flows N.35°W.;swift current
29.12	County road to Strawberry Valley, runs parallel to creek
30.00	Begin abrupt ascent; leave timber
40.02	Set a sandstone 18x9x6 ins. 12 ins. in the ground for ¼ sec. cor. secs. 17 and 20, marked ¼ on N. face; raised mound of stones, 2 ft. base 1½ ft. high N. of cor.
43.20	Top of spur ridge, projects S.W., 415 ft. above creek
	Thence on S. slope; enter mountain mahogany timber
50.30	Begin abrupt descent over ledges
53.80	Dry rocky run, drains S.30°W. in narrow ravine, 150

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	ft. deep; ascend abruptly along N.W. slope
55.75	Enter dense aspen timber
80.04	The cor. of secs. 16-17-20 and 21
	This cor. stands 575 ft. above ravine
	Land, mountainous
	Soil, rocky and gravely; 4th rate.
	Timber, dense aspen, and mountain mahogany of small size and fringe of cottonwoods and alder along creek; dense oak and thorn undergrowth
	Mountainous land, 80.04 chs.
	N.0°02'E. bet.secs. 16 and 17
	Over mountainous land
	Descending abrupt slope in dense aspen timber
6.40	Bottom of hollow, drains W. 100 ft. below cor.
	Ascending to
11.80	Top of spur ridge, projects W., 80 ft. high
	Descending
20.00	Bottom of hollow, drains W., 60 ft. below spur
	Ascend to
31.00	Top of spur ridge, projects W., 120 ft. above hollow
	Descending
36.00	Hollow, 50 ft. deep, drains W.; ascend and leave timber, bears E. and W.
40.00	Set a sandstone 18x9x7 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor.secs. 16 and 17, marked $\frac{1}{4}$ on W. face; raised a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high W. of cor.
40.75	Top of spur ridge, projects W., 70 ft.above hollow
	Descending
45.90	Hollow, 60 ft. deep, drains W.; ascending
59.00	Top of divide, spur ridge, bears E. and W., 190 ft. above hollow
	Begin abrupt descent; enter dense small aspen timber
77.50	Enter bottom of gulch, course N.W., 440 ft, below ridge

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
79.60	Dry wash, drains N.30°W.
	Leave timber, parallel to wash, and begin ascent
80.00	Set a sandstone 18x8x6 ins., 12 ins. in the ground for cor. of secs. 8-9-16 and 17, marked with 4 notches on S. and E. edges, from which
	An aspen tree, 4 ins. diam., bears S.47°05'W. 20 lks dist., marked T.5 S R 6 E S 17 B T
	An aspen tree, 4 ins. diam., bears N.80°30'W. 59 lks. dist., marked T 5 S R 6 E S 8 B T
	No other trees within limit; raised a mound of stones 3 ft. base 1½ ft. high, W.of cor.;pits impracticable
	Land, mountainous
	Soil, gravely wash, 3rd rate.
	Timber, aspen of small size and dense growth
	Oak and thorn undergrowth
	Mountainous land,80.00 chs.
	Sept. 5: weather being clowdy I could not observe the sun while on the meridian.
	N.89°58'W. on a random line bet. secs. 8 and 17
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line, 5 lks.N. of cor. of secs. 7-8-17 and 18
	Thence I run
	E. on a true line bet. secs. 8 and 17
	Over mountainous land
	Descending abruptly in timber
0.40	County road, bears N. and S.; Provo River Valley to Strawberry Valley. Enter bottom of Daniel's Canyon.
1.10	Daniel's Creek, 24 lks. wide, swift current, flows N.
2.00	Begin abrupt ascent
20.25	Top of spur ridge, projects S.W., 565 ft. above creek
	Thence descending gradually on abrupt S. slope in slide rock and mountain mahogany timber
40.03	Set a sandstone 24x6x6 ins.,in a mound of stones, 3 ft. base 1½ ft. high, in slide-rock, for ¼ sec. cor. marked ¼ on S.face (Hill being very steep, N. face is covered); from which

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	A mountain mahogany tree, 4 ins.diam., bears N.34°E. 18 lks.dist., marked ¼ S 8 B T.
	A mountain mahogany tree, 4 ins.diam., bears S.34°05' W. 8 lks.dist., marked ¼ S 17 B T
44.06	Stream, 3 lks. wide, flows S.W. in bottom of Clegg's Canyon, 150 ft. below spur
	Leave mahogany timber and enter dense aspen
	Begin ascent on N.W. slope
61.00	Top of spur ridge, projects N., 150 ft. above stream
	Descending to
77.00	Enter bottom of gulch, course N.W. and S.E.
79.40	Dry wash, drains N.30°W.
79.70	Begin ascent
80.06	The cor. of secs. 8-9-16 and 17
	Land, mountainous
	Soil, gravely and rocky; 3rd rate
	Timber; cottonwood and aspen along Daniel's Creek, scrub mahogany and aspen brake; dense oak and thorn undergrowth
	Mountainous land, 80.06 chs.
	Sept. 5, 1909.
	Sept. 6: at 7h 15m A.M. l.m.t., I set off 40°23'[illegible]"N. on the lat. arc, 6°35'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°02'E. bet. secs. 8 and 9
	Over mountainous land
	Ascending gradually over broken S.W. slope
16.50	Top of spur ridge, projects W., 130 ft. above cor.
	Descending abruptly
24.25	Stream, 3 lks.wide, flows W. in bottom of Clegg's Canyon a steep narrow ravine, 150 ft. below spur
	Begin ascent on 35°30' slope and slide rock; scrubby

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
40.00	Set a sandstone 17x10x6 ins., 11 ins. in the ground for ¼ sec. cor. secs. 8 and 9, marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
42.40	Top of spur ridge, projects S.W., 900 ft. above stream
	Leave timber; thence along W. slope and gradual ascent through oak brush undergrowth
61.00	Head of ravine, drains W.; 50 ft. deep
64.65	Top of spur ridge, projects W., 100 ft. above previous spur; descending abruptly
	Enter dense aspen brake
75.75	Dry wash in bottom of dry hollow, drains W., 400 ft. below spur
	Begin abrupt ascent in dense oak undergrowth
76.35	Leave timber, bears E. and W.
80.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for cor. of secs. 4-5-8 and 9, marked with 5 notches on S. and 4 notches on E.edges; raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Land, mountainous
	Soil; gravely wash, rocky; 3rd and 4th rate
	Timber, small aspen and scrub mahogany
	Dense, rank oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	W. on a random line bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 14 lks. S. of cor. of secs. 5-6-7 and 8
	Thence I run
	S.89°54'E. on a true line bet. secs. 5 and 8
	Over mountainous land
	Ascending abruptly on side of canyon
14.70	Top of canyon, bears N. and S., 310 ft. above cor.
	Ascending gradually to

CHAINS.	
22.50	Top of spur ridge, projects S.
	Begin abrupt descent
26.90	Bottom of ravine, 110 ft. deep, drains S.15°W.
	Ascending abruptly
40.05	A stationary sandstone 14x12x10 ins. above ground for ¼ sec. cor. secs. 5 and 8, I mark ¼ on N.W. face; raise a mound of stones 2 ft. base 1½ ft. high, N. of cor.; pits impracticable.
	Sept. 6: at this cor. I set off 6°29' N. on the decl. and at 11h 59m A.M. l.m.t. observe the sun on the meridian; the resulting lat, is 40°24'30"N.
43.00	Top of spur ridge, projects S.W., 275 ft. above ravine
46.00	Begin gradual descent along S.E.slope to
62.04	Dry wash in bottom of ravine, draining S.15°W., 100 ft. below spur
	Thence on gradual ascent along S.W. slope to
80.10	The cor.of secs.4-5-8 and 9
	This cor. stands 130 ft. above ravine
	Land, mountainous
	Soil, gravely, rocky wash and ledges; 3rd rate
	No timber; dense oak brush undergrowth
	Mountainous land, 80.10 chs.
	N.0°02'E. on a random line bet. secs. 4 and 5
~~40.00~~	~~Set temp. ¼ sec. cor.~~
75.40	Intersect N. bdy. of Tp. 34 lks. W. of cor. of secs. 4-5-32 and 33, heretofore described.
	Thence I run
	S.0°17'W. on a true line bet. secs. 4 and 5
	Over mountainous land
	Ascending in timber and undergrowth
28.00	Leave timber, bears E. and W.
29.65	Top of spur ridge projecting W., and old road running parallel to ridge, 350 ft. above cor.
	Begin gradual descent

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
35.40	Set a sandstone 18x7x6 ins., 12 ins. in the ground for ¼ sec. cor. secs. 4 and 5, marked ¼ on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of corner
43.15	Bottom of hollow, drains W., 90 ft. below spur
	Ascending
46.00	Top of slope and low ridge, bears E. and W.
	Descend gradually; enter timber, bears E. and W.
54.30	Leave timber, bears E. and W.
58.10	Edge of break, bears E. and W.
	Begin steep descent
75.40	The cor. of secs. 4-5-8 and 9
	This cor. stands 515 ft. below top of break
	Land, mountainous
	Soil; gravely wash and boulders; 3rd rate
	Timber, small aspen and pine
	Dense larb and oak underprowth
	Mountainous land, 75.40 chs.
	Sept. 6, 1909.

	Sept. 7: from the S.C. of secs. 33 and 34 on S. bdy. of Tp., heretofore described, I run
	N.0°02'E. bet. secs. 33 and 34
	Over mountainous land
0.10	Ascending through dense tall brush
5.10	Top of spur ridge, projects S.75°E., 85 ft. above cor.
	Begin descent on broken N.E. slope
8.00	Enter timber, bears N.W. and S.E.
33.15	Daniel's Creek, 22 lks. wide, swift current, flows N.W. in bottom of canyon, 225 ft. below spur
	Enter dense willow
40.00	Set a sandstone 18x10x6 ins.,12 ins. in the ground for ¼ sec. cor. secs. 33 and 34, marked ¼ on W. face, from which
	An aspen tree, 4 ins.diam., bears S.54°35'E. 20 lks.

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	dist., marked ¼ S 34 B T
	No other trees within limit; raise a mound of stones 2 ft. base 1½ ft. high, W. of cor.;pits impracticable.
40.20	Leave bottom of canyon and willow and begin ascent, bears N.W. and S.E.
42.30	Top of slope; thence along W. edge of County road from S.25°E.;from Provo River Valley to Strawberry Valley.
50.50	County road turns N.W.
	Begin abrupt ascent on S.W.slope
77.00	Top of spur ridge projecting W.,400 ft. above road
	Enter timber, bears E. and W. and begin abrupt desc.
80.00	Set a sandstone 17x7x5 ins., 11 ins. in the ground for cor. of secs. 27-28-33 and 34, marked with 1 notch on S. and 3 notches on E, edges; from which
	A pine tree, 11 ins. diam., bears S.75°22'W. 28 lks. dist., marked T.5 S R 6 E S 33 B T
	An aspen tree, 4 ins.diam., bears S.58°33'E. 14 lks. dist., marked T 5 S R 6 E S 34 B T
	An aspen tree, 4 ins.diam., bears N.62°08'E. 11 lks. dist., marked T 5 S R 6 E S 27 B T
	An aspen tree, 4 ins.diam.,bears N.42°35'W. 18 lks. dist., marked T 5 S R 6 E S 28 B T
	This cor. stands on N. slope, 35 ft. below top of spur
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, small aspen and scattering pine
	Mountainous land, 80.00 chs.
	Sept. 7: at this cor. I set off 6°07'N. on the decl. arc and at 11h 59m A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°21'N.
	W. on a random line bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 28-29-32 and33

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Thence I run
	L. on a true line bet. secs. 28 and 33
	Over mountainous land
	Descending gradually in timber
13.15	Bottom of hollow, drains S.75°E.
	Ascending
14.70	Top of spur ridge, projects S.E., 40 ft. above hollow, and break to canyon, bears N.W. and S.E.
	Begin abrupt descent
29.00	Ravine, drains N.55°E., 40 ft. deep
40.00	Set a sandstone 17x7x5 ins., 11 ins. in the ground for ¼ sec. cor. secs. 28 and 33, marked ¼ on N. face; from which
	An aspen tree, 4 ins. diam., bears S.87°24'W. 3 lks. dist., marked ¼ S 33 B T
	A pine tree, 5 ins. diam., bears N.44°57'W. 30 lks. dist., marked ¼ S 28 B T
49.50	Bottom of slope, bears N.W. and S.E., 800 ft. below break
	Enter bottom of Daniel's Canyon, and dense willow
	Leave timber, bears N.W. and S.E.
54.15	Daniel's Creek, 20 lks. wide, swift current, flows N.W.
54.55	Begin ascent; leave willow, bears N.W. and S.E.
54.75	Enter bench at mouth of gulch, 15 ft. above creek
55.26	U.S.GEOL.SUR. Bench Mark, 7112 ft., on copper cap of iron pipe, bears N.12°56'E. 83 lks. dist.
56.15	County road, bears N.W. and S.E.; Provo River Valley to Strawberry Valley.
57.35	Begin abrupt ascent on sharp spur ridge projecting W. south of mouth of gulch
60.00	Enter timber, bears N. and S.
80.00	The cor. of secs. 27-28-33 and 34
	This cor. stands 460 ft. above bench
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber; aspen of small size and dense growth, and scattering pine

BOOK A-359

CHAINS.	
	Mountainous land, 80.00 chs.
	Sept. 7: at 3h 8m P.M.l.m.t, I set off 40°21'N. on the lat. arc, 6°04' 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
	N.0°02'E. bet. secs. 27 and 28
	Over mountainous land
	Descending abruptly in timber
24.78	Dry wash, drains S.W.in bottom of narrow canyon, 380 ft. below cor.
	Begin abrupt ascent; timber changes from dense aspen to scattering mountain mahogany
40.00	Set a white limestone 18x8x7 ins.,12 ins. in the ground for ¼ sec. cor. secs. 27 and 28, marked ¼ on W. face from which
	A mountain mahogany tree, 6 ins.diam., bears N.76° 48'E. 85 lks.dist., marked ¼ S 27 B T
	No other trees within limit; raise a mound of stones 2 ft. base 1½ ft. high, W. of cor.;pits impracticable
60.00	Top of spur ridge, projects S.W.,950 ft. above canyon
	Thence along W. slope
	Timber changes to aspen and a few pine
71.50	Begin descent
75.06	Dry wash in bottom of hollow, drains S.70°W., 90 ft.deep
	Leave timber, bears E. and W., and begin abrupt ascent
80.00	Set a sandstone 18x9x8 ins.,12 ins. in the ground for cor. of secs. 21-22-27 and 28, marked with 2 notches on S. and 3 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high, W. of cor.
	Pits impracticable.
	This cor. stands 125 ft. above hollow
	Land, mountainous
	Soil; rocky and gravely; 3rd and 4th rate

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Timber; aspen of small size and dense growth, mountain mahogany and pine, scattering
	Mountainous land, 80.00 chs.
	Sept. 7, 1909.
	Sept. 8: 7h 33m A.M. l.m.t. I set off 40°21'30"N. on the lat. arc, 5°50' '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
	W. on random line bet. secs. 21 and 28
40.00	Set temp. ¼ sec. cor.
79.98	Intersect N. and S. line 9 lks. N. of cor. of secs. 20-21-28 and 29
	Thence I run
	N.89°50'E. on a true line bet. secs. 21 and 28
	Over mountainous land
	Ascend abruptly on side of Daniel's Canyon in scattering mahogany timber and brush
12.40	Top of break to canyon, bears N.W. and S.E., 350 ft. above cor.
	Thence on gradual ascent over rolling slope
	Timber changes to dense aspen brake
39.25	Top of spur ridge, projects S.W.,250 ft. above break
	Descending
39.99	Set a sandstone 18x6x6 ins., 12 ins. in the ground for ¼ sec. cor. secs. 21 and 28, marked ¼ on N. face, from which
	An aspen tree, 6 ins.diam., bears S.20°54'W. 16 lks. dist., marked ¼ S 28 B T
	An aspen tree, 4 ins.diam., bears N.75°44'E. 34 lks. dist., marked ¼ S 21 B T
44.50	Descent becomes abrupt
50.90	Dry wash, drains S.W. in bottom of sharp narrow ravine, 190 ft. below spur; begin abrupt ascent

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
74.00	Top of spur ridge, projects S.65°W., 330 ft. above ravine; thence along broken S. slope, leave timber bears N.E. and S.W.
79.98	The cor. of secs. 21-22-27 and 28
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber; aspen of small size and dense growth, and scrub mahogany
	Mountainous land, 79.98 chs.
	Sept. 8: at this cor. I set off 5°44' W. on the decl. arc and at 11h 58m A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°21'30"N.

	N.0°02'E. bet. secs. 21 and 22
	Over mountainous land
	Ascending abrupt slope, in dense undergrowth
5.70	Top of slope and ridge, running E. and W., 75 ft. above cor.; begin abrupt descent; enter timber, bears E. and W.
31.20	Enter flat bottom of gulch, bears N.75°W. and S.75°E. 800 ft. below ridge
35.60	Leave bottom of gulch, course N.W. and S.75°E. and begin ascent on steep broken S.W. slope
40.00	Set a sandstone 16x12x6 ins., 11 ins. in the ground for ¼ sec. cor. secs. 21 and 22, marked ¼ on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of cor.; pits impracticable.
69.60	Spring branch, 1 lk. wide, flows W. in ravine from spring 2 chs. E.
71.60	Top of ascent and spur ridge projecting W., 230 ft. above gulch; begin abrupt descent on N.W. slope
80.00	Set a sandstone 18x8x6 ins., 12 ins. in the ground for cor. of secs. 15-16-21 and 22, marked 5 S. on N.E. and 6 E. on S.E. faces, with 3 notches on S. and E. edges; raised a mound of stones 2 ft. base 1½ ft.

CHAINS.	
	high W. of cor.; pits impracticable.
	This cor. stands 275 ft. below top of spur
	Land, mountainous
	Soil; gravely wash and clay; 3rd rate
	Timber; dense growth of small aspen, in bunches
	Oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	Sept. 8, 1909.

	Sept. 9: I run
	S.89°56'W. on a random line bet, secs. 16 and 21
40.00	Set temp, $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line at cor. of secs.16-17-20 and 21
	Thence I run
	N.89°56'E. on a true line bet. secs. 16 and 21
	Over mountainous land
	Ascending along N.W. slope through timber
20.00	Leave timber, bears N.E. and S.W.
29.50	Top of spur ridge, projects S.W., 550 ft. above cor.
	Thence along steep S. slope
33.00	Begin abrupt descent
40.03	Set a sandstone 18x9x8 ins., 13 ins. in the ground for $\frac{1}{4}$ sec. cor. secs. 16 and 21, marked $\frac{1}{4}$ on N. face; raise a mound of stones 3 ft. base $1\frac{1}{2}$ ft. high N. of cor.; pits impracticable.
50.15	Bottom of sharp narrow gulch, drains S.30°W., 340 ft. below spur; ascending abruptly
58.40	Top of sharp spur ridge, projects S.30°W., 180 ft. above gulch; descending abruptly on S.E. slope to
74.50	Bottom of Center Canyon, course S.W., 325 ft. below ridge
78.20	Dry wash drains S.W.
79.60	Leave bottom of canyon and begin ascent, bears N.E. and S.W.
80.06	The cor. of secs. 15-16-21 and 22
	Land, mountainous

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Soil; gravely and rocky; 3rd rate
	Timber, small aspen of dense growth
	Mountainous land, 80.06 chs.
	Sept. 9: at 10h 2m A.M. l.m.t. I set off 40°23'55"N. on the lat. arc, 5°24'00"N. on the decl. arc, and determine a meridian with the solar at the cor. of secs 15-16-21 and 22
	Thence I run
	N.0°02'E. bet. secs. 15 and 16
	Over mountainous land
	Descending to
0.40	Enter bottom of Center Canyon, bears N.E. and S.W.
1.30	Dry wash drains S.W.
2.25	Begin ascent on 34° slope in slide rock
26.80	Top of spur ridge projects S.W., 800 ft. above canyon
	Thence along steep broken W. slope
40.00	Set a sandstone 18x10x5 ins., 12 ins. in the ground for ¼ sec. cor. secs. 15 and 16, marked ¼ on W. face; from which
	An aspen tree, 4 ins. diam., bears N.25°21'E. 20 lks. dist., marked ¼ S 15 B T
	An aspen tree, 4 ins.diam., bears S.38°52'W. 6 lks. dist., marked ¼ S 16 B T
	Sept. 9: at this cor. I set off 5°22'17"N. on the decl. arc and at 11h 57m A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°23'N.
43.20	Head of gulch drains S.W.
	Ascending abruptly to
53.25	Ascent becomes gradual, bears E. and W.,200 ft.above gulch; enter timber, bears E. and W.
68.00	Top of slope and ridge, bears N.60°W. and S.75°E.
	Descending; timber mostly burnt and fallen
80.00	Set a sandstone 18x13x8 ins., 12 ins. in the ground for cor. of secs. 9-10-15 and 16, marked with 4 notches

CHAINS.	
	on S. and 3 notches on E. edges; raise a mound of stones 2 ft. base 1½ ft. high, W. of cor.
	This cor. stands 190 ft. below ridge
	Land, mountainous
	Soil: gravely and rocky; 3rd rate
	Timber, aspen and pine
	Mountainous land, 80.00 chs.
	S.89°56'W. on a random line bet. secs. 9 and 16
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 16 lks. S. of cor. of secs. 8-9-16 and 17
	Thence I run
	S.89°57'E. on a true line bet. secs. 9 and 16
	Over mountainous land
	Ascending abruptly in oak brush undergrowth
25.00	Top of spur ridge, projects S.W.,460 ft. above cor.
	Descending to
36.90	Bottom of ravine, drains S.W ,160 ft. below spur
	Begin ascent on 39° slope
40.00	Set a sandstone 17x9x5 ins.,11 ins. in the ground for ¼ sec. cor. secs. 9 and 16, marked ¼ on N. face; raise mound of stones 3 ft. base 1½ ft. high, N. of cor.
47.25	Ascent becomes gradual, bears N. and S.,330 ft. above ravine
48.50	Enter timber, bears N. and S.
65.00	Top of slope and ridge, bears N.W. and S.E.
	Begin gradual descent on N.E. slope
	Timber burnt and mostly fallen
80.00	The cor. of secs. 9-10-15 and 16
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, aspen and pine
	Dense oak brush undergrowth

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Mountainous land, 80.00 chs.
	Sept. 9, 1909.
	Sept. 10: at 7h 40m A.M. l.m.t. I set off 40°23'30"N. on the lat. arc, 5°04'N. on the decl. arc, and determine a meridian with the solar at the cor. of secs 9-10-15 and 16; thence I run
	N.0°02'E. bet. secs. 9 and 10
	Over mountainous land
	Descending over dry fallen timber
1.00	Bottom of gulch, drains N.W.
	Begin ascent on S.W. slope
2.00	Enter green timber and undergrowth
11.00	Top of spur ridge, projects W., 135 ft. above gulch
	Begin gradual descent
20.00	Bottom of hollow, drains W.
	Ascending abruptly to
40.00	Set a sandstone 18x10x5 ins., 12 ins. in the ground for ¼ sec. cor. secs. 9 and 10, marked ¼ on W. face; from which
	An aspen tree, 4 ins. diam., bears N.61°E. 46 lks. dist., marked ¼ S 10 B T
	An aspen tree, 4 ins. diam., bears N.82°15'W. 32 lks. dist., marked ¼ S 9 B T
49.50	Top of ridge, bears N.30°W. and S.30°E., 400 ft. above hollow
52.00	Begin abrupt descent
60.45	Stream, 3 lks. wide, flows W. in bottom of Clegg's Canyon 600 ft. below ridge; ascending abruptly in slide rock
79.40	Top of slope and spur ridge projecting S.E., 300 ft. above stream; thence on N. slope to
80.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for cor of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges; from which
	A pine tree, 6 ins. diam., bears N.17°35'E. 75 lks.

SUBDIVISION OF T.5 S. R.6 E.

CHAINS.	
	dist., marked T 5 S R 6 E S 3 B T
	No other trees within limit; raise a mound of stones 3 ft. base 1½ ft. high W. of cor.;pits impracticable
	Land, mountainous
	Soil; rocky and gravely; 3rd rate
	Timber, small aspen of dense growth and a few pine
	Mountainous land, 80.00 chs.
	N.89°57'W. on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 7 lks. N. of cor. of secs. 4-5-8 and 9
	Sept. 10: at this cor. I set off 4°59'35"N. on the decl. arc and at 11h 57m a.m.,l m t, observe the sun on the meridian; the resulting lat. is 40°24'30"N.
	Thence I run
	East on a true line bet. secs. 4 and 9
	Over mountainous land
	Ascending along S.W. slope in dense undergrowth
15.00	Head of gulch, drains S.65°W.
	Begin abrupt ascent; enter timber, bears N. and S.
25.00	Top of ridge, bears N.E. and S.W.,500 ft. above cor.
	Descending over broken slope
35.85	Ravine, drains S., 100 ft. below ridge; leave timber, bears N.E. and S.W.
	Thence along steep broken S. slope facing canyon
39.98	Set a porphyritic stone 18x9x5 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on S. face;(being on abrupt S. slope the N. face is covered); raise a mound of stone 3 ft. base 1½ ft. high N. of cor.; pits impracticable.
61.00	Begin gradual ascent
79.00	Top of round mountain, (Aneroid elev. 9035 ft.)
	Descending to
79.96	The cor. of secs. 3-4-9 and 10
	Land, mountainous

SUBDIVISION OF T.5 S. R.6 E.

CHAINS.	
	Soil; rocky and gravely; 3rd rate
	Timber, aspen of small size and a few pine
	Mountainous land, 79.96 chs.
	Knowing from resurvey of N. bdy. of Tp. I cannot close on the cor. of secs. 3-4-33 and 34, I run
	N.0°02'E. bet. secs. 3 and 4
	Over mountainous land
	Descending gradually in timber
18.50	Leave timber, bears N.W. and S.E. in swale draining W. 150 ft. below cor.; ascend gradually
24.00	Top of divide ridge bet. Daniel's Creek and Center Creek bears E. and W.
	Begin descent
31.25	Enter timber, bears E. and W.
40.00	Set a basalt stone 18x7x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 6 ins.diam., bears S.78°39'W. 12 lks. dist., marked ¼ S 4 B T
	An aspen tree, 10 ins.diam., bears N.13°05'E. 18 lks. dist., marked ¼ S 3 B T
42.40	Begin abrupt descent, bears E. and W.
47.00	Bottom of hollow, drains N.W., 100 ft. deep.
	Ascending:
60.00	Top of spur ridge, projects N.75°W., 90 ft. high
	Descend
65.10	Bottom of hollow, 50 ft. deep, drains N.60°W.
	Begin gradual ascent on S.W. slope to
76.71	Intersect N. bdy. of Tp. 2.16 chs. S.89°03'W. of the cor of secs. 3-4-33 and 34, heretofore described
	Set a porphyry stone 18x10x6 ins.,12 ins. in the ground for closing cor. of secs. 3 and 4, marked C C on S. with 3 grooves on E. and W. faces; from which
	An aspen tree, 4 ins.diam., bears S.15°40'E. 14 lks. dist., marked T 5 S R 6 E S 3 B T
	An aspen tree, 8 ins.diam., bears S.43°35'W. 34 lks. dist., marked T 5 S R 6 E S 4 B T

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	I destroy all markings on cor. of secs. 3-4-33 and 34 pertaining to Secs. 3 and 4
	This cor. stands 150 ft. above hollow
	Land, mountainous
	Soil; gravely wash and clay; 3rd rate
	Timber, aspen and scattering pine
	Mountainous land, 76.71 chs.
	Sept. 10, 1909.
	Sept. 11: at 7h 15m A.M. l.m.t. I set off 40°30'N. on the lat. arc, 4°43' [illegible]'N. on the decl. arc and determine a meridian with the solar at the S.C. of secs 34 and 35 on S. bdy. of Tp.; thence I run
	N.0°03'E. bet. secs. 34 and 35
	Over mountainous and heavily timbered land
	Descending gradually along W. slope
1.26	Road from Daniel's Canyon to sawmill on Strawberry Creek bears N.25°E. and S.25°W.
11.37	South bank of wash, 15 ft. deep, at W. mouth of irrigating tunnel from Strawberry Creek to Daniel's Creek, course W.
12.25	North bank of same
21.50	Head of hollow, drains W.
	Begin ascent
40.00	Set a sandstone 16x7x6 ins, 11 ins. in the ground for ¼ sec. cor. secs. 34 and 35, marked + on W. face; from which
	An aspen tree, 4 ins. diam., bears N.46°45'W. 5 lks. dist., marked + S 34 B.T
	An aspen tree, 4 ins. diam., bears N.28°10'E. 11 lks. dist., marked + S 35 B T
43.00	Timber becomes small aspen brake and undergrowth
46.56	Intersect West Boundary of the Uintah Indian Reservation
	set a sandstone 18x13x6 ins., 12 ins. in the ground for closing corner for secs. 34 and 35, marked C C with 1 groove on S., 4 grooves on W., and U I R on N.

CHAINS.	
	faces and raised a mound of stones 2 ft. base 1½ ft.high S. of corner; pits impracticable
	From this closing corner the 140 mile corner on the boundary, which is a sandstone firmly set and properly marked as described by the surveyor general, bears as follows, viz:
	S.37°45'E. 11.96 chs. to angle cor.: thence
	S.20°30'W. 3.00 chs. to mile cor. No. 140
	This cor. stands 240 ft. above hollow
	Land, mountainous
	Soil; gravely, clayey wash; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 46.56 chs.
	From the cor. of secs. 27-28-33 and 34, I run
	East bet. secs. 27 and 34
	Over mountainous land
	Ascending in timber on broken N.W. slope
27.00	Top of spur ridge projects S.W.,260 ft. above cor.
	Begin abrupt descent; leave timber, bears N.E. and S.W.
39.60	Stream, 2 lks. wide, flows S.30°W. in bottom of N. fork of McGuire Canyon, 300 ft. below ridge
	Begin abrupt ascent
40.00	Set a sandstone 18x8x6 ins.,12 ins. in the ground for ¼ sec. cor. secs. 27 and 34, marked ¼ on N. face; from which
	An aspen tree, 5 ins.diam., bears S.52°33'E. 21 lks. dist., marked ¼ S 34 B T
	An aspen tree, 4 ins.diam., bears N.21°10'W. 30 lks. dist., marked ¼ S 27 B T
50.00	Top of slope and spur ridge, projects S.W.,280 ft. above stream; thence on steep broken S. slope
65.50	Begin descent on S.E. slope
76.85	Bottom of gulch, 200 ft. deep, drains S.W.
	Enter scattering pine timber and ascend abruptly

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
80.00	Set a sandstone 18x9x6 ins., 12 ins. in the ground for cor. of secs. 26-27-34 and 35, marked with 1 notch on S. and 3 notches on E. edges; from which A pine tree, 12 ins.diam., bears S.46°32'W.82 lks. dist., marked T 5 S R 6 E S 34 BT An aspen tree 8 ins. diam. bears N.42°12'W.80 lks. dist., marked T 5 S R 6 E S 27 B T. An aspen tree 5 ins. diam. bears N.4°57'E. 42 lks. dist. marked T 5 S R 6 E S 26 B T. No other trees within limit; raised a mound of stones 3 ft. base 1½ ft. high W. of cor. Pits impracticable This cor. stands 90 ft. above gulch Land, mountainous; soil, gravely wash, 3rd. rate Timber, aspen, mountain mahogany and scattering pines Mountainous land 80.00 chs.
	Sept. 11: at this cor. I set off 4°36' N. on the decl. arc and at 11h 57m A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°21'N.
	S.0°03'W. bet. secs. 34 and 35 Over mountainous land Ascending abruptly in scattering timber
3.50	Timber becomes heavy
19.38	Intersect West Boundary of the Uintah Indian Reservation Set a sandstone 16x7x5 ins. 10 ins. in the ground for closing corner for secs. 34 and 35, marked C C with 5 grooves on N.,4 grooves on W. and U I R on S.faces from which An pine tree,12 ins.diam., bears N.38°05'E. 34 lks. dist., marked T 5 S R 6 E S 35 B T An aspen tree, 5 ins.diam., bears N.76°56'W. 34 lks. dist., marked T 5 S R 6 E S 34 B T From this closing corner the ½ mile corner of the 141st mile on the boundary, which is a pine post properly set, marked, and witnessed as described by the surveyor general, bears as follows, viz:

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CHAINS.	
	N.53°E. 5.32 chs. to the ½ mile cor. of the 141st mile
	This cor. stands 250 ft. above the cor. of secs. 26-27-34 and 35
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine and aspen, good growth
	Mountainous land, 19.38 chs.
	East bet. secs. 26 and 35
	Over mountainous land
	Ascending abruptly through scattering timber
2.50	Timber becomes dense
13.00	Timber changes to aspen brake of small size.
15.00	Leave break, bears N. and S.
17.20	Intersect West Boundary of the Uintah Indian Reservation
	Set a sandstone 18x10x7 ins.,12 ins. in the ground for closing corner for secs. 26 and 35, marked C C with 5 grooves on W., 1 groove on S., and U I R on E. faces; raise a mound of stones 2 ft. base 1½ ft.high W. of cor.; pits impracticable.
	From this closing corner the 141 mile corner on the boundary, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general, bears as follows, viz:
	N.13°00'E. 8.64 chs. to angle cor.;thence
	N.17°15'W. 4.50 chs. to angle cor.;thence
	N.26°30'W. 4.90 chs. to mile post No.141
	This cor. stands 270 ft. above the cor. of secs. 26-27-34 and 35
	Land, mountainous
	Soil; gravely wash and boulders; 3 rd rate
	Timber, aspen and scattering pine
	Mountainous land, 17.20 chs.
	Sept. 11, 1909.

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Sept. 12: I run
	N.0°03'E. bet. secs. 26 and 27
	Over mountainous and heavily timbered land
	Along broken W. slope on gradual ascent
18.50	Hollow drains S.25°W.
	Ascending gradually
34.10	Hollow, 40 ft. deep, drains S.W.
	Begin abrupt ascent
40.00	Set a sandstone 17x9x5 ins., 11 ins. in the ground for ¼ sec. cor. secs. 26 and 27, marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears S.18°50'E. 16 lks. dist., marked ¼ S 26 B T
	An aspen tree, 5 ins.diam., bears S.83°30'W. 22 lks dist., marked ¼ S 27 B T
50.00	Top of spur ridge, projects S.W., 400 ft. above sec.cor.
	Thence along broken W. slope ascending gradually to
80.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for cor. of secs. 22-23-26 and 27, marked with 2 notches on S. and E. edges; from which
	A pine tree, 9 ins.diam., bears N.4°24'E. 50 lks. dist., marked T.5 S R 6 E S 23 B T
	An aspen tree, 4 ins.diam., bears S.84°07'E. 5 lks. dist., marked T 5 S R 6 E S 26 B T
	An aspen tree, 6 ins.diam., bears S.79°34'W. 42 lks. dist., marked T 5 S R 6 E S 27 B T
	An aspen tree, 6 ins.diam., bears N.17°51'W. 55 lks. dist., marked T 5 S R 6 E S 22 B T
	This cor. stands 200 ft. above spur ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen of small size and dense growth and scattering pine
	Mountainous and heavily timbered land, 80.00 chs.

SUBDIVISION OF T.5 S.R.6 E.

CHAINS	
	West on a random line bet. secs. 22 and 27
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 12 lks. N. of cor. of secs. 21-22-27 and 28
	Thence I run
	N.89°35'E. on a true line bet. secs. 22 and 27
	Over mountainous land
	Along abrupt S. slope descending gradually to
7.00	Enter timber; bears N.E. and S.W.
8.95	Bottom of hollow; drains S.60°W., 75 ft. below cor.
	Begin abrupt ascent
20.85	Top of spur ridge, projects S.W.,240 ft. above hollow
	Thence along steep broken S. slope,descending gradually
	Leave timber
40.00	Set a sandstone 17x9x5 ins., 11 ins. in the ground for ¼ sec.cor. secs. 22 and 27, marked ¼ on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
46.00	Descent becomes abrupt
50.35	Dry wash, drains S.60°W. in bottom of narrow canyon, 200 ft. below spur
	Ascending to
80.00	The cor. of secs. 22-23-26 and 27
	This cor. stands 540 ft. above canyon
	Land, mountainous
	Soil; gravely wash, 3rd rate
	Timber, aspen of small size and dense growth and scattering pine
	Oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	Sept. 12: the sky being overcast during the noon hour I was unable to observe the sun on the meridian
	East bet. secs. 23 and 26
	Over mountainous land

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Ascending abruptly in timber
4.40	Leave timber, bears N. and S.
6.58	Intersect West Boundary of the Uintah Indian Reservation
	Set a sandstone 18x12x6 ins.,12 ins. in the ground for closing corner for secs. 23 and 26, marked C C with 5 grooves on W., 2 grooves on S., and U I R on E. faces, and raised a mound of stones 2 ft. base 1½ ft. high W. of corner;pits impracticable.
	From this closing corner the 142 mile corner on the boundary, which is a pine post firmly set, marked, and witnessed as described by the surveyor general, bears as follows, viz:
	N.17°15'W. 1.30 chs. to angle cor.;thence
	N.10°45'E. 12.70 chs. to mile post No. 142
	This cor. stands 100 ft. above cor. of secs. 22-23-26 and 27 (Aneroid elev. 9300 ft.)
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous land, 6.58 chs.
	From the cor. of secs. 22-23-26 and 27 I run
	N.0°03'E. bet. secs. 22 and 23
	Over mountainous land
	Ascending gradually along broken W, slope through timber
36.00	Leave timber, bears E. and W.
38.70	Top of spur ridge, projects S.W., 300 ft. above cor.
40.00	Set a sandstone 17x9x6 ins.,11 ins. in the ground for ¼ sec. cor. secs. 22 and 23, marked ¼ on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of cor.;pits impracticable.
40.50	Begin gradual descent
43,00	Enter timber, bears E. and W.
71.50	Bottom of hollow, drains S.W., 150 ft. below ridge
	Ascending to

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
77.75	Top of ascent; thence on W. slope
80.00	Set a sandstone 18x7x6 ins.,12 ins. in the ground for cor. of secs. 14-15-22 and 23,marked with 3 notches on S. and 2 notches on E. edges; from which
	An aspen tree, 6 ins.diam., bears N.48°E. 10 lks. dist., marked T 5 S R 6 E S 14 B T
	An aspen, 6 ins.diam., bears N.28°W. 17 lks. dist., marked T 5 S R 6 E S 15 B T
	An aspen tree, 6 ins.diam., bears S.62°30'W. 30 lks. dist., marked T 5 S R 6 E S 22 B T
	An aspen tree, 6 ins.diam., bears S.20°52'E. 20 lks. dist., marked T 5 S R 6 E S 23 B T
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine, fair growth
	Mountainous land, 80.00 chs.
	Sept. 13, 1909.
	September 13: at 7h 55m A.M. l.m.t. I set off 40°22'30" N. on the lat. arc, 3°55' [illegible]"N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 14-15-22 and 23; thence I run
	S.89°55'W. on a random line bet. secs. 15 and 22
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.12	Intersect N. and S. line 18 lks. S. of cor. of secs. 15-16-21 and 22
	Thence I run
	S.89°57'E. on a true line bet. secs. 15 and 22
	Over mountainous land
	Ascending abruptly on steep N.W. slope in dense undergrowth
5.00	Enter timber, bears N. and S.
40.06	Set a sandstone 18x10x5 ins. 12 ins. in the ground for $\frac{1}{4}$ sec. cor. secs. 15 and 22, marked $\frac{1}{4}$ on N. face from which

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	A pine tree, 4 ins.diam., bears S.49°30'E. 61 lks. dist., marked ¼ S 22 B T
	A pine tree, 6 ins.diam., bears N.50°30'E. 33 lks. dist., marked ¼ S 15 B T
45.70	Sharp ravine, 60 ft. deep, drains N.W.
68.00	Top of N.W. slope; thence over flat spur ridge projecting S.75° W., 900 ft. above sec. cor.; begin gradual ascent
80.12	The cor. of secs. 14-15-22 and 23
	Land, mountainous
	Soil: gravely wash and boulders, and slide rock, 4th rate
	Timber, dense aspen of small size, and scattering pine
	Mountainous land, 80.12 chs.
	Sept. 13: at this cor. I set off 3°51'N. on the decl arc and at 11h 56m A.M. l.m.t. observe the sun on the meridian; the resulting lat. is 40°22'30"N.
	East bet. secs. 14 and 23
	Over mountainous land
	Ascending abruptly in timber
10.50	Hollow drains S.W.
15.47	Intersect West Boundary of the Uintah Indian Reservation
	Set a sandstone 18x9x6 ins., 12 ins. in the ground for closing corner for secs. 14 and 23, marked C C with 5 grooves on W., 3 grooves on S., and U I R on E. faces; from which
	A pine tree, 10 ins.diam., bears S.60°41'W. 86 lks. dist., marked T 5 S R 6 E S 23 B T
	An aspen tree, 8 ins.diam., bears N.70°16'W. 65 lks. dist., marked T 5 S R 6 E S 14 B T
	From this closing corner the 143 mile corner on the boundary which is a post firmly set, marked, and witnessed as described by the surveyor general, bears as follows, viz:
	N.4°00'W. 5.72 chs. to angle cor.; thence

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	N.35°45'E. 6.30 chs. to mile post No. 143
	This cor. stands 150 ft. above the cor. of secs. 14-15-22 and 23
	Land, mountainous
	Soil; gravely wash; 3 rd rate
	Timber, pine and aspen, fair size
	Mountainous land, 15.47 chs.

	From the cor. of secs. 14-15-22 and 23, I run
	N.0°03'E. bet. secs. 14 and 15
	Over mountainous land
	Ascending gradually on W. slope through timber
15.00	Top of spur ridge projects westerly, 120 ft. above cor.
	Descending to
26.40	Head of ravine, drains W., 160 ft. below ridge
	Ascending
35.00	Leave timber, bears E. and W.
40.00	Set a sandstone 18x10x5 ins., 12 ins. in the ground for ¼ sec. cor. secs. 14 and 15, marked ¼ on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of cor.; pits impracticable.
52.00	Top of ridge, bears S.W. and N.E.,335 ft. above ravine
	Begin abrupt descent
71.20	Stream, 3 lks. wide, flows S.W.in bottom of Center Canyon, 400 ft. below ridge; ascending
73.00	Enter timber, bears N.E. and S.W.
80.00	Set a sandstone 18x6x6 ins.,12 ins. in the ground for cor. of secs. 10-11-14 and 15, marked with 4 notches on S. and 2 notches on E. edges; from which
	An aspen tree, 6 ins.diam., bears S.22°23'E. 19 lks. dist., marked T 5 S R 6 E S 14 B T
	An aspen tree, 12 ins. diam., bears S.65°W. 18 lks. dist., marked T 5 S R 6 E S 15 B T
	An aspen tree, 6 ins.diam., bears N.3°25'W. 22 lks. dist., marked T 5 S R 6 E S 10 B T

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	An aspen tree, 7 ins.diam., bears N.12°58'E. 34 lks. dist., marked T 5 S R 6 E S 11 B T
	This cor. stands 150 ft. above bottom of canyon
	Land, mountainous
	Soil, gravely wash; 3rd rate
	Timber, aspen and pine, fair growth
	Mountainous land, 80.00 chs.
	Sept. 13, 1909.
	Sept. 14: at 7h 50m A.M. l.m.t. I set off 40°23'30" N. on the lat. arc, 3°32' W. on decl. arc, and determine a meridian with the solar at the cor. of secs. 10-11-14 and 15
	Thence I run
	N.89°57'W. on a random line bet. Secs. 10 and 15
40.00	Set temp. ¼ sec. cor.
80.06	Intersect N. and S. line 7 lks. N. of cor. of secs. 9-10-15 and 16
	Thence I run
	East on a true line bet. secs. 10 and 15
	Over mountainous land
	Timber mostly burnt and fallen
2.20	Bottom of gulch drains N.W.
	Begin ascent
3.50	Enter green, heavy timber
18.00	Top of spur ridge projects S.
20.20	Hollow, 30 ft. deep, drains S.30°W.
	Ascent becomes abrupt
40.03	Set a sandstone 18x7x6 ins., 12 ins. in the ground for ¼ sec. cor. secs. 10 and 15, marked ¼ on N. face; from which
	An aspen tree, 8 ins.diam., bears N.49°30'E. 13 lks. dist., marked ¼ S 10 B T
	An aspen tree, 8 ins. diam., bears S.17°28'E. 7 lks. dist., marked ¼ S 15 B T
62.00	Top of spur ridge, projects S., 600 ft.above sec. cor.

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
	Begin gradual descent
70.00	Descent becomes abrupt
80.06	The cor. of secs. 10-11-14 and 15
	This cor. stands 225 ft. below top of ridge
	Land, mountainous
	Soil, gravely wash; 3 rd rate
	Timber, aspen and pine, heavy forest
	Mountainous land, 80.06 chs.
	East bet. secs. 11 and 14
	Over mountainous land
	Descending abrupt slope in timber
5.00	Ravine, drains S.
7.50	Stream, 3 lks. wide, flows S.W. in bottom of narrow canyon, 75 ft. below cor.
	Ascending on N.W. slope
24.00	Timber becomes scattering, burnt and fallen
28.88	Intersect West Boundary of the Uintah Indian Reservation
	Set a sandstone 18x8x6 ins. 12 ins. in the ground for closing corner for secs. 11 and 14, marked C C with 5 grooves on W., 4 grooves on S., and U I R on E. faces; raise a mound of stones 2 ft. base 1½ ft. high W. of cor.; pits impracticable.
	From this closing corner the 144 mile corner on the boundary, which is a stone firmly set, marked, and witnessed as described by the surveyor general, bears as follows; N.19°45'E. 7.27 chs. to mile cor. No. 144.
	Land, mountainous
	Soil, gravelly wash; 3d rate. Timber, aspen and pine.
	Mountainous land 28.88 chs.
	Sept. 14: at this cor. I set off 3°28'W. "N. on the decl. arc and at 11h 56m A.M. l.m.t. observe the sun on the meridian; the resulting lat, is 40°23'30"N.
	From the cor. of secs. 10-11-14 and 15, I run
	N.0°03'E. bet. secs. 10 and 11
	Over mountainous land
	Ascending abruptly along S.E. slope in timber

SUBDIVISION OF T.5 S.R.6 E.

CHAINS.	
15.00	Top of ridge, bears N.75°E. and S.75°W., 210 ft. above corner; begin gradual descent over broken N.W. slope
30.50	Spur projects NW.
	Timber becomes scattering; mainly fallen
40.00	Set a sandstone 17x10x6 ins., 12 ins. in the ground for ¼ sec. cor. secs. 10 and 11, marked ¼ on W. face; raise a mound of stones 2 ft. base 1½ ft. high W. of cor.; pits impracticable.
42.50	Bottom of hollow, drains W., 260 ft. below ridge
	Begin abrupt ascent
54.00	Top of spur ridge, projects W., 175 ft. above hollow
	Begin abrupt descent
68.60	Stream, 2 lks. wide, flows S.60°W. in bottom of narrow canyon, 430 ft. below ridge; ascending abruptly to
77.50	Top of ridge, bears E. and W., 220 ft. above stream
79.00	Begin gradual descent
80.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for cor. of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E. edges; raise a mound of stone 3 ft. base 1½ ft. high W. of cor.; pits impracticable
	Land, mountainous
	Soil, gravely wash; 3rd rate
	Timber, aspen and pine; good growth on S. 30 chs., rest scattering
	Mountainous land, 80.00 chs.
	Sept. 14, 1909.
	Sept. 15: at 7h 33m A.M. l.m.t. I set off 40°34'30"N. on the lat. arc, 3°10' "N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2-3-10 and 11; thence I run
	West on a random line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 10 lks. N. of cor. of secs. 3-4-9 and 10
	Thence I run

SUBDIVISION OF T.5 S.R.G.E.

CHAINS.	
	N.89°56'W. on a true line bet. secs. 3 and 10
	Over mountainous and heavily timbered land
	Descending abruptly in timber and undergrowth
9.60	Bottom of slope, ravine drains S.,180 ft. below cor.
	Begin ascent
14.00	Top of spur ridge, slopes N., 60 ft. high;descending
18.05	Bottom of same ravine draining N.W.
	Thence on gradual ascent on sloping bench
29.80	Old irrigating ditch, drains N.25°W.
40.00	Set a sandstone 18x7x6 ins.,12 ins. in the ground for ¼ sec. cor. secs.3 and 10, marked ¼ on N. face; from which
	A spruce tree, 5 ins.diam., bears N.28°W. 3 lks. dist., marked ¼ S 3 B T
	A spruce tree, 6 ins.diam., bears S.45°E. 3 lks. dist., marked ¼ S 10 B T
	This cor. stands in a clump of spruce trees 25 lks.diam.
55.70	Begin abrupt ascent, bears N.W. and S.E.
67.00	Top of spur ridge projects N.W.,430 ft. above ravine
	Begin gradual descent along N.E.slope
	Leave timber, bears N. and S.
79.50	Bottom of slope and saddle of ridge, bears N. and S., 100 ft. below spur
80.00	The cor. of secs. 2-3-10 and 11
	Land, mountainous
	Soil, gravely wash; 2nd and 3rd rates
	Timber, pine and aspen, good growth
	Mountainous and heavily timbered land, 80.00 chs.

	East bet. secs. 2 and 11
	Over mountainous land
	Ascending gradually along sloping ridge
14.18	Enter timber, bears N. and S. and begin abrupt ascent
26.18	Intersect West Boundary of the Uintah Indian Reservation
	Set a quartzite stone 18x8x6 ins., 12 ins. in the ground

SUBDIVISION OF T.5 S. R.6 E.

CHAINS.	
	for closing cor. for secs. 2 and 11, marked C C with 5 grooves on W. and S., and U I R on E. faces; from which
	An aspen tree, 12 ins.diam., bears S.89°45'W. 52 lks. dist., marked T 5 S R 6 E S 11 B T
	An aspen tree, 10 ins.diam., bears N.57°28'W. 131 lks dist., marked T 5 S R 6 E S 2 B T
	From this closing cor. the 145 mile cor. on the boundary which is a post firmly set, marked, and witnessed as described by the surveyor general, bears as follows, viz.:
	S.74°00'W. 0.14 chs. to mile post No. 145
	This cor. stands 150 ft. above cor. of secs. 2-3-10 and 11
	Land, mountainous
	Soil; gravely wash: 3rd rate
	Timber, pine and aspen
	Mountainous land, 36.18 chs.
	Sept. 15: at this cor. I set off 3°04' N. on the decl. arc and at 11h 55m a.m., l m t, observe the sun on the meridian; the resulting lat. is 40°24'30"N.
	Knowing from resurvey of N. bdy. of Tp. I cannot close on the cor. of secs. 2-3-34 and 35, I run
	N.0°03'E. bet. secs. 2 and 3
	Over mountainous land
	Descending gradually
10.00	Head of hollow, drains N.W., 50 ft. below cor.
	Ascending gradually to
15.50	Top of spur ridge, projects N.W., 30 ft. above hollow
	Enter timber, bears E. and W., and begin descent
37.48	Stream, 3 lks. wide, flows N.W. in hollow 300 ft. below ridge; ascend
40.00	Set a sandstone 18x9x7 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 10 ins.diam., bears S.38°28'E. 77 lks.

CHAINS.	
	dist., marked ¼ S 2 B T
	A pine tree, 5 ins.diam., bears S.23°36'W. 42 lks. dist., marked ¼ S 3 B T
41.12	Leave timber, bears E. and W.
55.50	Top of spur ridge, projects N.W., 120 ft. high
	Begin abrupt descent
58.40	Stream, 3 lks. wide, flows N.30°W. in hollow 80 ft. deep
	Ascend abruptly to
60.40	Top of spur ridge, projects N.30°W., 50 ft. above stream
	Descending gradually to
72.50	Leave timber, bears E. and W.
77.00	Enter timber, bears E. and W.
77.94	Intersect N. bdy. of Tp. 3.50 chs. S.89°03'W. of cor. of secs. 2-3-34 and 35, heretofore described
	Set a quartzite stone 18x10x5 ins.,12 ins. in the ground for closing cor. of secs. 2 and 3, marked C C on S. with 4 grooves on W. and 2 grooves on E. faces; from which
	An aspen tree, 4 ins.diam., bears S.51°05'E. 25 lks. dist., marked T 5 S R 6 E S 2 B T
	An aspen tree, 5 ins.diam., bears S.32°10'W. 38 lks. dist., marked T 5 S R 6 E S 3 B T
	I destroy all markings on the original cor. of secs. 2-3 34 and 35 pertaining to secs. 2 and 3
	This cor. stands 100 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous land, 77.94 chs.
	From the cor. of secs. 1-2-35 and 36 on N. bdy. of Tp. heretofore described, I run
	S.0°04'W. bet. secs. 1 and 2
	Over mountainous land
	Descending gradually on steep W. slope in scattering timber

SUBDIVISION OF T.5 S. R.6 E.

CHAINS.	
32.40	Precipitous break of lava rock, 35 ft. high, bears N.W. and S.E.
36.00	Head of hollow, drains W.; ascend to
38.90	Sharp spur ridge, 50 ft. high, projects S.W.; descend
53.94	Intersect W. bdy. of the Uintah Indian Reservation.
	Set a basalt stone 17x10x6 ins., 11 ins. in the ground for closing cor. for secs. 1 and 2, marked CC with 1 groove on N., 5 grooves on W., and U I R on S.E. faces; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
	From this closing cor. the 146 mile cor. on the boundary which is a sandstone firmly set, marked, and witnessed as described by the surveyor general, bears as follows, viz.:
	S.50°30'E. 3.14 chs. to mile cor. No. 146
	Land, mountainous
	Soil: gravely loam; 3rd rate
	Timber, aspen and pine
	Mountainous land, 53.94 chs.
	September 15, 1909.
	Sept. 16: I return to the meridian established August 24 from Polaris. At 8h 5m a.m. I set off 3°46'N. on the decl. arc, and test the adjustment of my solar, finding it gives the same meridian as before, and adjustments correct.
	September 16, 1909.

GENERAL DESCRIPTION.

This township is all mountainous land, exceedingly rough and broken and no part is suited for cultivation. The soil is, in the main, poor, producing a scant growth of grasses, although a few patches have rich and fairly deep soil. It is fairly well watered and affords excellent summer pasture.

At one time there was a great deal of valuable pine timber within this township but most of it has been re-

moved, and, while nearly the entire area is covered with timber it consists in great part of aspen of no commercial value, while pine, fir, and spruce are found only in isolated patches, or scattering trees.

There are no quarries nor mines, nor do any indications exist which would promise such for the future.

There are no improvements within the township except the county road, which traverses Daniel's Canyon, and which is extensively used for travel to and from the reservation country. Thousands of head of sheep yearly pass back and forth over this main highway.

There is no settler nor even a herder's or logger's cabin within the township.

Frederick W. Hanson
Compassman.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W. Hanson, Compassman for Andrew P. Hanson ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision Lines of Township 5 South Range 6 East showing the respective capacities in which they acted:

Alva Davis, *Chainman.*
G. G. Greer, *Chainman.*
Parley Davis, *Moundman.*
G. G. Greer, *Moundman.*
Ezra Greer, *Axman.*
Parley Davis, *Axman.*
A. P. Hanson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson, ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Subdivision Lines of Township 5 South Range 6 East 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

Alva Davis, *Chainman.*
G G Greer, *Chainman.*
Parley Davis, *Moundman.*
G G Greer, *Moundman.*
Ezra Greer, *Axman.*
Parley Davis, *Axman.*
A P Hanson, *Flagman.*

Subscribed and sworn to before me this 16th day of September, 1909

SEAL

Frederick W. Hanson
Compassman

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BOOK A-359

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frederick W. Hanson, Compassman for Andrew P. Hanson, 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 18 day of May, 1905, 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 Subdivisional lines of Township No. 5 South, Range No. 6 East of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed 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.

Frederick W. Hanson
Compassman for
Andrew P. Hanson
United States Deputy Surveyor.

Subscribed by said Frederick W. Hanson, and sworn to ~~before me~~ this 2 day of February, 1911, ~~1900~~

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 1911.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 5 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah, executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, 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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4—679. Filed Oct.29, 1909.

BOOK A-359

N.

FIELD NOTES

RE

OF THE SURVEY OF THE

SOUTH, EAST, AND NORTH BOUNDARIES

O F

TOWNSHIP NO.18 SOUTH

RANGE NO. 7 EAST

Of the SALT LAKE BASE AND *Meridian,*

U T A H,

AS SURVEYED BY

Frederick W.Hanson, Compassman

for Andrew P.Hanson, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *1905*

e Survey commenced September 17, *1909*

e Survey completed October 1, *1909.*

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S Bdy 1-00-00

E Bdy 77-96 1-00-16

N Bdy 77-76

BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Willie Tuttle,	Chainman.
Clarence Johnson,	"
E.M.Cox,	Moundman.
Willie Tuttle,	"
E.M.Cox,	Axman.
Clarence Johnson,	"
A.P.Hanson,	Flagman.

BOOK A-359

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Willie Tuttle and Clarence Johnson 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 re-survey of S. E. and N. boundaries of T. 18 S. R. 7 E. S. L. B. & M.

Willie Tuttle, Chainman.

Clarence Johnson, Chainman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, E. M. Cox and Willie Tuttle do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the re-survey of S. E. and N. boundaries of T. 18 S. R. 7 E. S. L. B. & M.

E. M. Cox, Moundman.

Willie Tuttle, Moundman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, E. M. Cox and Clarence Johnson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the re-survey of S. E. and N. boundaries of T. 18 S. R. 7 E. S. L. B. & M.

E. M. Cox, Axman.

Clarence Johnson, Axman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

I, A. P. Hanson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the re-survey of S. E. and N. boundaries of T. 18 S. R. 7 E. S. L. B. & M.

A. P. Hanson, Flagman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

Resurvey of South Boundary T.18S. R.7 E.

Chains

Survey commenced Sept. 17 1909 and executed with a W & L E Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the vernier of the latitude and declination arcs. -

The instrument was examined tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah August 21, 1909

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 observations on Polaris I proceed as follows:-

At the cor. of secs 1-2-35 and 36 on S. bdy. of T.18 S. R 7 E. S.L.B.&M.; latitude 39°12'05" N., longitude 111°08'03" W.; I set off 39°12' N. on the lat. arc. 2°15'00" S on the decl. arc and at 3h40m p.m. L.m.t. determine with the solar a meridian, and mark a point thereof, on a stone firmly set in the ground 4 chs N. of my station.

At 8h13m p.m. L.m.t. I observe Polaris at eastern elongation in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 4 chs. N. of my station.

September 17, 1909.

Sept. 18: At 8h0m a.m. L.m.t. I lay off the azimuth of Polaris 1°32' to the west and mark the meridian thus determined, on the stone set Sept. 17 on which the meridian falls 0.8 ins. west of the mark determined by the solar. -

At 8h10m a.m. L.m.t. I set off 39°12' N on the lat. arc 1°55'00" N. on the decl. arc and mark a point in the meridian determined with the solar on the stone already set 4 chs N. of my station, this mark falls 0.7 ins. west of the meridian

Chains	established by the Polaris observation. —
	The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively within 1' east and west of the meridian established by the Polaris observation; and 1' being the least count of the verniers, I conclude that the adjustments of the instrument are satisfactory. —
	The magnetic bearing of the true meridian at 8h 10m a.m. is N. 16° 30' W.; the angle thus determined gives the mag. decl. 16° 30' E.
	Note: A persistent and careful search having failed to disclose any trace of the cor. of secs. 2-3-34 and 35 on S. bdy of T. 18 S. R. 7 E. nor the 1/4 sec. cor. bet. secs 2 and 35 I make a retracement in part of the S. bdy. of sec. 36 and am able to identify the remnants of the cor. of secs. 1-2-35 and 36 as above described, which is a sandstone 18 x 11 x 3 ins. in a mound of stones; much disintegrated and markings wholly obliterated. — I reestablish said cor. as follows: —
	Set a hard red sandstone 18 x 9 x 7 ins. 12 ins. in the ground for cor. of secs. 1-2-35 and 36 marked with 1 notch on E. and 5 notches on W. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable. —
	Thence I run, on resurvey line
	S. 89° 55' W. bet. secs. 2 and 35
	Over mountainous land
	Bad Lands, abrupt slopes, bluffs and ravines
3.48	Dry wash drains S. E. in hollow
	Thence on gradual ascent
7.00	Ascent becomes abrupt course N. W. and S. E.
9.75	Top of slope bears north westerly and south easterly 60 ft. above wash; enters rolling bench land and scrub cedar
16.20	Begin abrupt descent, course N. and S.
20.00	Dry wash drains S. 80 ft. below bench. —
	Ascending over sharp ridges to
29.90	Top of spur ridge running S. 90 ft. above wash
	Descending on broken slope
34.90	Dry wash, drains S. E. in hollow 30 ft. deep.
	Begin abrupt ascent

Resurvey of south boundary of T. 18 S. R. 7 E.

Chains	
37.00.	Top of spur ridge runs S. E 50 ft. above wash
	Descending along S W slope to
40.00	A stationary gray sandstone 24×24×10 ins. above ground for 1/4 sec. cor. marked 1/4 + (cross) on N. side from which
	A cedar tree 5 ins. diam. bears S. 31°30' E. 24 lks. dist. marked 1/4 S 2 B.T.
	A cedar tree 18 ins. diam. bears N 54°35' W. 10 lks. dist. marked 1/4 S. 35 B.T.
	This cor. is located in dry bed of wash draining S. 70° E. 35 ft. below ridge
	No trace of former cor. could be found, though carefully searched for. —
40.45	Begin abrupt ascent
42.20	Top of slope bears S. E. and N. W. 50 ft. above wash and beginning of gradual ascent
48.00	Beginning of abrupt descent, course N. W. and S. E.
49.35	Dry wash in hollow 35 ft. deep, drains S E; ascending
51.50	Top of spur ridge runs S. E. 50 ft. above wash
	Descending abruptly
53.50	Bottom of ravine, drains S. E 70 ft. below ridge
	Thence on gradual ascent
55.20	Same ravine drains N. E.
60.25	Same ravine drains S. E.; ascending abruptly
66.00	Top of slope bears N. W. and S. E 100 ft. above wash; enter broken bench land, and gradual ascent
80.00	Set a sandstone 18×11×7 ins. 12 ins. in the ground for cor of secs. 2-3-34 and 35 marked with 2 notches on E and 4 notches on W. edges, from which
	A pinion tree 12 ins. diam. bears S. 60°42' W. 38 lks. dist. marked T. 19 S. R. 7 E. S. 3 B.T.
	A pinion tree 5 ins. diam. bears S 46°55' E 33 lks. dist. marked T 19 S R 7 E S 2 B.T. — no other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high W. of Cor. Pits impracticable. —
	No trace of former cor could be found though diligently searched for. —
	This cor stands 300 ft. above the cor. of secs. 1-2-35 and 36
	Land Mountainous; Bad Lands,
	Soil. clay. gravel and large bowlders 3rd rate
	Timber. scrub cedar and pinion, scattering

Resurvey of South boundary of T18SR7E

chains	
	Mountainous land 80.00 chs. September 18, 1909
	Oct. 1, 1909: To make proper closing around sec. 1 I run North on a retracement line bet secs 1 and 6 from cor of secs. 1-6-7 and 12 on E. bdy of Tp. as described in Book "P" of this survey (resurvey of subdivision T.18 S.R.7E).
	Over mountainous land
	Ascending gradually over broken bench land
40.35	Intersect the 1/4 sec. cor which is sand a stone 10×9×5 ins. above ground firmly set. and properly marked but markings nearly obliterated I re cut 1/4 on W. face and raise a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
80.66	The cor. of Tp 18 S. Rs 7 and 8 E. bears east 17 lks. dist. and the course from the 1/4 sec. cor. is therefor N. 0° 14' E Said cor is a sandstone 14×10×8 ins above ground firmly set. marked and witnessed as described by the surveyor general. –
	This cor. stands 250 ft. above the cor. of secs. 1-6-7 and 12
	Land Mountainous rolling bench
	Soil gravely and clay 3d rate
	No timber. –
	Mountainous land 80.66 chs.
	October 1; at this cor. I set off 3° 09' S. on the decl. arc and at 11h 50m a.m., l.m.t. observe the sun on the meridian: the resulting lat. is 39° 17' 20" N.
	To make proper closing around sec 2 I retrace as follows From the cor. of secs. 34 and 35 on N bdy of Tp. as described in book "Q" I run
	East on S. bdy. of sec. 35
	Over mountainous land
	Through timber
39.80	Intersect the 1/4 sec. cor. which is a stone firmly set. marked and witnessed as described by the surveyor general. –
	October 1: At this cor. I set off 39° 17' 20" N. on the lat. arc 3° 11' S. on the decl. arc and at 2h 31m pm, l.m.t. determine a meridian with the solar, and run as before. –
77.76	Intersect the cor. of secs. 35 and 36 as [illegible] described in book "Q".
	Land mountainous

Resurvey, N. Boundary T18SR7E.

Soil gravely wash and clay 3d rate
Timber pinion and cedar of small size
Mountainous land 77.76 chs

To make proper closing around sec. 36 I run South on a retracement line on E. bdy of Tp. bet. secs. 31 and 36; From the cor. of secs 25-30-31 and 36 as described in Book "P" of this survey. (resurvey of subdivision T.18 S.R 7 E.)

40.00 A diligent search failed to disclose any trace of the 1/4 sec. cor.

79.96 The cor. of townships 18 and 19 S. ranges 7 and 8 E. bears west 1.52 chs. and the course of this line is therefor S.1°05'W.—
Therefor I run
From the cor. of Tps. 18 and 19 S. Rs 7 and 8 E which is a sandstone, firmly set marked marked and witnessed as described by the surveyor general.—
N.1°05'E bet. secs. 31 and 36
Over broken bench land, and gradual ascent

28.50 Ascent becomes abrupt course N 60°W and S 60°E

35.70 Top of spur ridge running S 60°E 160 ft. above cor.

37.00 Begin descent on steep talus slope

39.98 Set a sandstone 18x8x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable

49.40 Dry wash drains E. at foot of slope;
Enter rolling bench land

65.90 Dry wash drains E.

70.30 Canal 12 lks. wide flows S 25°E: enter cultivated field.
Thence along fence to

79.96 The cor. of secs. 25-30-31 and 36
Land rolling, broken bench at foot of mountains
Soil. sandy, alkaline 2d and 3rd rate
No timber.—

October 1, 1909

BOOK A-359

General Description

For general description see field notes of survey of S. bdy. of this Tp.

Frederick W. Hanson
Compassman

Volume
#
R0359

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W. Hanson Compa man for Andrew P. Hanson, United States Deputy ~~Surveyor~~, to assist in running, measuring, a marking the lines and corners described in the foregoing field notes of the survey of S. E. and N. boundaries of T. 18 S. R. 7 E. S. L. B. & M. showing the respective capacities in which they acted:

Willie Tuttle, Chainman
Clarence Johnson, Chainman
E. M. Cox, Moundman
Willie Tuttle, Moundman
E. M. Cox, Axman.
Clarence Johnson, Axman.
A. P. Hanson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson, Compas man for Andrew P. Hanson, United States Deputy ~~Surveyor~~, in surveying those parts or portions of the S. E. and N. boundaries of T. 18 S. R. 7 E. of the Salt La Base and meridian, State of Utah, which are represent in the foregoing field notes as having been surveyed by him and under his direction; and that said surv has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and t corner monuments established, according to the instructions furnished by the United States Survey General for Utah

Willie Tuttle, Chainman
Clarence Johnson, Chainman
E. M. Cox, Moundman
Willie Tuttle, Moundman
E. M. Cox, Axman.
Clarence Johnson, Axman.
A. P. Hanson, Flagman.

Subscribed and sworn to before me this 1st day of October, 1909

SEAL

Frederick W. Hanso
Compassman.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Frederick W. Hanson, Compassman for Andrew P. Hanson, 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 May, 1905, 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 resurvey of the South, East, and North Boundaries of Township No. 18 South, Range No. 7 East of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed 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.

Frederick W. Hanson
~~United States Deputy Surveyor.~~
Compassman for Andrew P. Hanson D.S.

Subscribed by said Frederick W. Hanson, and sworn to before me this 4th day of December, 1909

Thomas Kell
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 1911

The foregoing field notes of the survey of the South, East and North Boundaries of Township No. 18 South, Range No. 7 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson, D.S. under his contract No. 289, dated May 18, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General

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

United States Surveyor General

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Filed Oct. 29, 1909.

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BOOK A-359

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY

O F

TOWNSHIP NO. 18 SOUTH,

RANGE NO. 7 EAST,

Of the SALT LAKE BASE AND *Meridian,*

U T A H,

AS SURVEYED BY

Frederick W. Hanson, Compassman

For Andrew P. Hanson, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *1905*

Survey commenced September 18, *1909*

Survey completed September 18, *1909*

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NAMES AND DUTIES OF ASSISTANTS.

Willie Tuttle,	Chainman.
Clarence Johnson,	"
E.M.Cox,	Moundman.
Willie Tuttle,	"
E.M.Cox,	Axman.
Clarence Johnson,	"
A.P.Hanson,	Flagman.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Clarence Johnson and Willie Tuttle 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 South boundary of T. 18 S. R. 7 E. S. L. B. & M.

Clarence Johnson, Chainman.
Willie Tuttle, Chainman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, Willie Tuttle and E. M. Cox do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of South boundary of T. 18 S. R. 7 E. S. L. B. & M.

Willie Tuttle, Moundman.
E. M. Cox, Moundman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, E. M. Cox and Clarence Johnson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of South boundary of T. 18 S. R. 7 E. S. L. B. & M.

E. M. Cox, Axman.
Clarence Johnson, Axman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

I, A. P. Hanson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South boundary of T. 18 S. R. 7 E. S. L. B. & M.

A. P. Hanson, Flagman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

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South boundary of T.18 S.R 7 E

Chains	
	Survey commenced September 18, 1909 and executed with a W. & L. E. Gurley light mountain transit with solar attachment.—
	Note:- For further description of instrument and tests of [illegible] reference is hereby made to Field Notes of resurvey of S. bdy. T.18 S.R 7 E. N. [illegible] under this date.
	It being impracticable to complete the boundaries of this township owing to enormous breaks and perpendicular precipices. I begin at the cor. of secs. 2-3-34 and 35 on S. bdy. of T.18 S. R 7 E. S.L.B.&M. as reestablished by me this day and described in Book "N"
	Thence I run
	West bet. secs. 3 and 34
	Over mountainous land
	Ascending gradually over broken surface and bowlders
	Through timber
29.50	Dry wash from west. turns N.60° E in hollow 15 ft. deep.
33.00	Lean wash drains E from S.W.
40.00	Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, from which
	A pinion tree 8 ins. diam. bears N.34°56' W. 36 lks. dist. marked 1/4 S. 3/4 B.T.
	A pinion tree 11 ins. diam. bears S.25°05' W. 21 lks. dist. marked 1/4 S 3/4 B.T.
70.00	Begin abrupt ascent in huge bowlders, course N. and S.
	Timber becomes scattering
80.00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges from which
	A sandstone bowlder 5 x 4 x 3 ft. above ground bears N 30° 16' E 20 lks dist. marked T 18 S R 7 E. S. 3/4 B O + on S.W face
	Raised a mound of stones 2 ft. base 1½ ft. high W. of Cor.
	Pits impracticable
	This cor stands 340 ft. above the cor. of secs. 2-3-34 and 35
	Land mountainous sloping and broken
	Soil clay, gravel and huge bowlders 3rd rate
	Timber, juniper and pinion of small size
	Mountainous land 80.00 chs. —
	Note:- It being impracticable to extend this line further owing to precipitous breaks several hundred feet high, I discontinue the survey here
	September 18, 1909

South boundary of T 18 S R 7 E

General Description

The eastern and northern portion of this township is made up of Bad Lands but contains small patches of arable land and nearly all may be used for pasture; the western portion is high, and broken by enormous precipitous cliffs and bluffs and can not be surveyed. The western part contains much valuable coal. —

Frederick W. Hanson
Compassman

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W. Hanson Compassman for Andrew P. Hanson, 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 South boundary of T. 18 S. R. 7 E. S.L.B.&M.

showing the respective capacities in which they acted:

Willie Tuttle, *Chainman.*
Clarence Johnson, *Chainman.*
E. M. Cox, *Moundman.*
Willie Tuttle, *Moundman.*
Clarence Johnson, *Axman.*
Ezra Cox, *Axman.*
A. P. Hanson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, in surveying all those parts or portions of the South boundary of T. 18 S. R. 7 E.

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

Willie Tuttle, *Chainman.*
Clarence Johnson, *Chainman.*
Willie Tuttle, *Moundman.*
E. M. Cox, *Moundman.*
E. M. Cox, *Axman.*
Clarence Johnson, *Axman.*
A. P. Hanson, *Flagman.*

Subscribed and sworn to before me this 1st day of October, 1909

SEAL

Frederick W. Hanson
Compassman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

P. Hanson

I, Frederick W. Hanson, Compassman for Andrew United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of t 18 day of May, 1905, I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Survey General for Utah, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of the South Boundary of Township N 18 South, Range No. 7 East

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

Frederick W. Hanson
United States Deputy Surve
Compassman for Andrew P. Hanson
D. S.

Subscribed by said Frederick W. Hanson, and sworn to before me this 4 day of December, 1909

SEAL

U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 19

The foregoing field notes of the survey of the South Boundary of Township No. 1 South, Range No. 7 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

United States Surveyor Gene

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

United States Surveyor Gene

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4—679. Filed Oct.28, 1910.

BOOK A-359

P.

FIELD NOTES

M.3.B.

RE

OF THE SURVEY OF THE

SUBDIVISION LINES

O F

TOWNSHIP NO. 18 SOUTH,

RANGE NO.7 EAST,

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Frederick W.Hanson, Commassman
for Andrew P.Hanson, *United States Deputy Surv*

Under his Contract No. 289, *dated* May 18,

Survey commenced Sept.19

Survey completed Sept.27,

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NAMES AND DUTIES OF ASSISTANTS.

Willie Tuttle,	Chainman.
Clarence Johnson,	"
E.M.Cox,	Moundman.
Willie Tuttle,	"
E.M.Cox,	Axman.
Clarence Johnson,	"
A.P.Hanson,	Flagman.

BOOK A-359

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Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Willie Tuttle and Clarence Johnson 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 resurvey of subdivision lines, township 18 south range 7 East S.L. B and M. – Utah

Willie Tuttle, Chainman.

Clarence Johnson, Chainman.

Subscribed and sworn to before me this 17th day of Sept., 1909

SEAL

Frederick W. Hanson
Compassman

WE, E M Cox and Willie Tuttle 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 resurvey of subdivision lines, township 18 south range 7 east S.L. B and M. – Utah

E M Cox, Moundman.

Willie Tuttle, Moundman.

Subscribed and sworn to before me this 17th day of Sept., 1909

SEAL

Frederick W. Hanson
Compassman

WE, E M Cox and Clarence Johnson 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 resurvey of subdivision lines, township 18 south range 7 east S.L. B and M. – Utah

E M Cox, Axman.

Clarence Johnson, Axman.

Subscribed and sworn to before me this 17th day of Sept., 1909

SEAL

Frederick W. Hanson
Compassman

I, A P Hanson, 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 resurvey ~~of~~ subdivision lines, township 18 south range 7 East S.L. B and M. – Utah

A P Hanson, Flagman.

Subscribed and sworn to before me this 17th day of Sept., 1909

SEAL

Frederick W. Hanson
Compassman

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Chains	Survey commenced September 18, 1909 and executed with a W & L E Gurley light mountain transit with solar attachment.—
	Note:- For further description of instrument and test of solar see field notes of resurvey of S. bdy. of this Tp. Book No. under date of Sept. 17-18, 1909, and being confident, all the adjustments of the instrument remain satisfactory I deem it unnecessary to repeat the test at this time.—
	Note:- A diligent and persistent search failed to disclose any trace of the cor. of secs. 25-26-35 and 36 the 1/4 sec. cor. bet. secs. 25 and 36 nor the 1/4 sec. cor. bet. secs. 25 and 26 therefor I go to the cor. of secs. 23-24-25 and 26, as found, being a sandstone firmly set 10x8x6 ins. above the ground surrounded by small mound of stones and properly marked but markings nearly obliterated.- I re-mark the stone, 1 notch on E. and 2 notches on S. edges and raise a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Thence I run
	South on a random line bet. secs. 25 and 26
40.00	Set temp. 1/4 sec. cor.
80.00	Set temp. cor. of secs. 25-26-35 and 36.—
	Thence I run
	East on a random line bet. secs. 25 and 36
40.00	Set temp 1/4 sec. cor.
81.94	Intersect E. bdy of Tp. at cor. of secs. 25-30-31 and 36 which is a sand stone 9x7x5 ins above ground firmly set marked and witnessed as described by the surveyor general.—
	Thence I run, on true resurvey line
	West bet. secs. 25 and 36
	Along fence through cultivated land; nearly level
3.55	Leave cultivated land bears N. and S.
3.80	Canal 10 lks. wide flows S. from Cottonwood Creek
	Thence over broken sagebrush land, in cove between foothills
30.00	At foot of perpendicular bluff 30 ft. high course W. and S.E.
	Offset north 1 chain; thence run on offset line West
39.50	Offset south 1 chain to true line.
	Thence on true line west.— Enter Mountainous land
40.10	perpendicular sandstone bluff 10 ft. high bears N.W. and S.E.; enter bench, and rough rolling surface

Resurvey of subdivision lines T. 18 S. R. 7 E.

Chains	
40.97	Set a gray sandstone 20 x 12 x 4 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which a cedar tree 8 ins. diam. bears S. 57° 05' E 65 lks. dist. marked 1/4 S 36 B.T. no other trees within limit. Raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. — No trace of prior cor. could be found.
57.25	Begin abrupt ascent course N. W. and S. E.
64.30	Top of spur runs S. 70° E 90 ft. above bench
	Descending gradually on sharp talus ridges running S. from break.
81.94	The temp. cor. of secs. 25-26-35 and 36
119.44	
39.50	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 25-26-35 and 36 marked with 1 notch on S. and E. edges from which
	A cedar tree 6 ins. diam. bears S. 40° 39' E. 1.90 chs. dist. marked T 18 S R 7 E S 36 B.T.
	A pinion tree 4 ins. diam. bears S. 58° 38' W. 1.28 chs. dist. marked T 18 S R 7 E S 35 B.T.
	No other trees within limit. —
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
	No trace of prior corner could be found.
	This cor stands 85 ft. below top spur
	Land rough broken foothills and Bad Lands, [illegible]
	Soil, sand, clay and sand stone 3d rate
	No timber
	Mountainous land 42.44 chs.

	North on a true resurvey line bet. secs. 25 and 26
	Over mountainous land
	Ascending abruptly, on talus and slide, bears E. and W.
5.95	Top of ascent bears E. and W. 176 ft. above cor.; enter rolling bench. — Also timber, bears E. and W.
21.45	Begin abrupt descent on slide and talus, course E. and W.
	Leave timber, bears E. and W.
34.75	Dry wash drains E. at foot of talus 420 ft. below bench
	Enter rolling surface and gradual descent
38.94	Old wood road bears E. and W.
40.00	Set a sandstone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable.

Resurvey of Subdivision lines. T. 18 S. R. 7 E.

chains	
	No trace of prior cor. could be found
43.05	Wash 15 ft. deep drains E.
48.20	Wash 15 ft. deep drains E
58.00	Begin steep descent, course E. and W. 50 ft. below Cor.
60.00	Foot of steep slope bears E. and W. 50 ft. deep.
	Descending gradually on broken surface
66.10	Wash 20 lks. wide drains E.
77.10	Wash in hollow drains N. 75° E. 175 ft. below 1/4 secs cor
	Thence on gradual ascent to
80.00	The cor. of secs. 23-24-25 and 26 as before described
	Land Mountainous broken, Bad Lands.
	Soil clay, sand, sandstone and alkali 3d rate
	Timber Cedar, and pinion of small size
	Mountainous land 80.00
	September 19: at 4h 55m p.m. Mnt., I set of 39°14' N. on the lat. arc 1°27'30" N. on the decl. arc and determine a meridian with the solar at above cor.
	Sept. 19, 1909

	September 21, 1909: Being unable to close around sec. 23 within the limit, and having checked my own work I begin at the cor. of secs. 14-15-22 and 23 as described in bk "Q", and run east bet. secs. 14 and 23 on a random retracement line.
40.00	Cor. has been removed but bearing tree described in original survey is still standing, properly marked from which I can determine position of original cor. to be ... N. 22 lks. - I set a temp. 1/4 sec. cor. in the place of the original, from whence I continue east as before
80.00	Set a temp. cor of secs. 13-14-23 and 24 and begin carefull search for original cor. - A settler owning adjoining land directs me to a supposed cor. which I find to be a stone properly marked, and loosely set in a mound of stones, located 1½ chains E. and 3½ chains S. of temp. cor. but not being satisfied to accept the position of this cor. as the original I begin at the temp. cor. as set by me and run north on a retracement line bet. secs. 13 and 14 and at
40.44	Found the 1/4 sec. cor. properly set, marked and witnessed bearing east 26 lks, and returning to the temp. cor of secs. 13-14-23 and 24, and again prosecuting the search

Chains in the dense thorny brush, rank weeds and climbing vines of the locality I unearthed the original cor. at 20 lks. E. and 23 lks. N. of my temp. cor., and destroy the cor. shown me by the settler, which I later learn was put there by the County Surveyor he having failed to find the original. —

From the cor. of secs. 13-14-23 and 24 as found I run South on a retracement line bet. secs. 23 and 24 and at

40.35 Discover the original 1/4 sec. cor. covered up, in the bottom of a small gully, and continuing south as before from said cor., at

40.40 Intersect the cor. of secs. 23-24-25 and 26 as before described

The foregoing condition as shown, justifying a resurvey I proceed as follows. —

From the cor. of secs. 23-24-25 and 26 I run

North bet. secs. 23 and 24

Over mountainous land

Ascending to

1.25 Top of low spur ridge runs east. - Thence descending

2.25 Wash in hollow drains E. 15 ft. below ridge

Ascending to

5.30 Top of spur ridge runs S.E 35 ft. high

Descending

6.40 Wash drains S.E. in hollow 30 ft. deep. -

Ascending over broken talus ridges

21.80 Top of spur ridge runs E. from point of break about 1.50 chs. West.

24.95 Ravine 15 ft. deep drains E

26.20 Top of spur ridge 100 ft. above cor. runs E.

Descending over broken surface

40.40 The original 1/4 sec. cor., a sandstone 12x6x5 in. above ground firmly set as described by the Surveyor general, but with marking much defaced though fully decernible; I recut 1/4 on W. face and raise a mound of stones 2 ft. base 1½ ft. high W. of cor.

Thence I run

N. 0°03' E.

0.45 Road to mountains bears N 75° W and S 75° E

1.25 Wire fence bears N 75° W and S 75° E

2.38 Irrigating canal 10 lks. wide flows S 75° E. in dense willow brush

8.00 Same canal flows S. 20° W

10.00 Same canal flows S 10° E

14.58 Same canal flows S. 70° W in bottom of hollow draining.

Chains	
	east, 250 ft. below spur ridge
	Begin gradual ascent
21.00	Top of spur ridge runs E 50 ft. above hollow
	Begin abrupt descent on N. slope
25.45	Canal 10 lks wide flows N. 85° E.; This is upper canal from Cottonwood Creek to Orangeville fields
29.25	Bottom of slope bears E. and W. 450 ft. below top of spur.
	Enter Cottonwood Creek bottom, and leave
	Mountainous land
	Enter dense undergrowth course E and W.
34.50	Right bank of Cottonwood creek course E.; flows over shallow gravel bottom in several divided channels
37.63	Left bank of creek bears E and W.; thence through miry slough
40.35	The cor. of secs. 13-14-23 and 24 as found; a sandstone 14x8x5 in. properly marked as described by the surveyor general, but buried in the soft soil and dense vegetation.-
	I reset stone 12 ins. in the ground in a mound of earth and stones 3 ft. base 1 ft. high, with 1 notch on E. and 3 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.-
	Land mountainous and creek bottoms
	Soil, clay, and gravel 2nd and 3rd rate
	No timber
	Mountainous land and dense undergrowth 80.75 chs.
	Sept. 21, 1909: At this cor. I set off 0° 45' 00" N. on the declinatory and at 1:45 p.m., l.m.t. observed the sun on the meridian; the resulting lat. is 39° 14' 44" N.-
	N. 0° 05' E. bet. secs. 13 and 14
	Over bottom land, through dense undergrowth-
2.00	Begin ascent course E. and W.
2.50	Top of slope 15 ft. high and canal from Cottonwood Creek to Forestdale fields flows E., 12 lks. wide
	Enter rough bench land and gradual ascent in Cottonwood Canyon
21.80	County Road bears E. and W. from Coal Creek to Castle Valley
24.25	Wash 50 lks. wide 12 ft. deep drains S.E.
27.30	Wood road bears S.E. and N.W. at foot of slope
	Enter mountainous land and begin ascent
40.23	The ¼ sec. cor. as found; a sandstone 10x6x6 in. above ground firmly set, marked and witnessed as described by the surveyor general
	This cor. stands 260 ft. above the cor. of secs. 13-14-23 and 24

Chains	
	Land rough bench and Mountainous slope
	Soil gravely and bowlders 2d and 3d rate
	No timber
	Mountainous land 12.93 chs.

Sept. 21: At 3.45 p.m., l.m.t. I set off 39°15' N on the lat. arc 0°42'30" N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 13-14-23 and 24

Thence I run

S. 89°40' W. bet. secs. 14 and 23

Through dense undergrowth, over miry ground

1.70	Fence bears N. and S.
10.40	Left bank of Cottonwood Creek course S. 70° E.; flows over shallow gravely bed in several channels
22.70	Right bank of Cottonwood Creek 10 ft. high course S. 70° E
24.75	Leave Dense undergrowth course N 20° E and S 20° W
	Enter cultivated field
32.00	Leave cultivated field course N. W. and S. E.
32.25	Wire fence runs parallel with field
	Enter mountainous land; and begin abrupt ascent course N. W. and S. E.
39.00	Top of slope bears N. W. and S. E.; 230 ft. above creek bottom
	Enter rolling plateau and timber
40.20	No trace of original cor. could be found but its exact position determined from bearing tree still standing
	Set a sandstone 22×12×12 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Original bearing tree; A pinion 12 ins. diam. bears S. 64° E. 54 lks. dist. marked 1/4 S 23 B T
	A cedar tree 6 ins. diam., bears N 64° 30' W. 35 lks. dist. marked 1/4 S. 14 B.T.
	Thence I run
	S 89° 40' W.
1.20	Wash in hollow 10 ft. deep drains N. E.
9.40	Leave timber course N. and S.
24.30	Begin abrupt descent on slide, course N. and S.
28.35	Bottom of slope and wash draining N. 180 ft. below top of plateau
	Thence over rolling surface
	Enter scattering timber bears N. and S.
39.70	Dry wash 15 lks. wide drains N. E.
	Leave timber course N. and S.

Chains	Begin gradual ascent
40.68	The cor. of secs. 14-15-22 and 23 as heretofore described
	Land, creek bottom and Mountainous
	Soil, gravel and clay and large bowlders 2d and 3d rate
	Timber, cedar and pinion of scrubby growth.
	Undergrowth, thorn and climbing vines
	Mountainous land and dense undergrowth 80.88 chs.
	September 21, 1909

Sept. 23, 1909: Being unable to find any trace of the cor. of secs. 15-16-21 and 22, I go to the cor. of secs. 14-15-22 and 23, and run west on a retracement line bet. secs. 15 and 22 and at 40.00 chs. make search for the 1/4 sec. cor. but could find no trace of same; at 80.00 chs. I find no trace of the cor. of secs. 15-16-21 and 22; I set a temp. cor. and continue the retracement north bet. secs. 15 and 16 at 40.00 chs., no trace of the 1/4 sec cor. could be found, but at 80.40 the cor. of secs. 9-10-15 and 16 bears W. 42 lks.; and to properly reestablish the cor. of secs. 15-16-21 and 22 I make the following resurveys.—

From the cor. of secs. 9-10-15 and 16, which is a stone 24x20x16 ins. above ground marked with 3 notches on E and 4 notches on S. edges, and which is the original cor.; I raise a mound 2 ft. base 1½ ft. high W. of cor, and run

South bet. secs. 15 and 16

Over mountainous land

Ascending from mouth of ravine opening on Cottonwood Canyon

3.80	Top of bluff on W. side of ravine 125 ft. above cor
	Descending
7.15	Dry wash in bottom of ravine 100 ft. below bluff. drains N. 25° E. — Ascending on talus
9.50	Foot of perpendicular sandstone wall 80 ft. high bears N. 25° E and S. 25° W.
	Leave ravine and begin ascent on broken slope
18.40	Top of abrupt slope bears N. E and S. W. 260 ft. above wall
	Thence on gradual ascent over broken plateau
	Enter timber
40.20	Set a sandstone 18x10x8 ins. 12 ins. in the ground

Chains	for 1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 8 ins. diam. bears N. 77° 03' W 26 lks. dist.
	marked 1/4 S. 16 B.T
	A pinion tree 5 ins. diam. bears N. 72° 05' E. 50 lks.
	dist. marked 1/4 S 15 B T
	No trace of original 1/4 sec. cor. could be found
48.15	Top of slope and spur, running N. 30° E
	Descending
57.60	Dry wash drains N. 15° E in hollow 70 ft. below spur
	Ascending on E. side of hollow in large bowlders
76.00	Top of divide bears E. and W. 800 ft. above sec. cor.
	Begin descent on broken S.W. slope. - Leave timber
80.40	Intersect S. bdy. of Sec 15 extended, at west 42 lks. from
	the temp. cor. set by me this day
	A stationary sandstone 18×12×10 ins. above ground
	for cor. of secs. 15-16-21 and 22. I mark 18 S. on N.E.
	and 7 E on S.E. face with 3 notches on S and E edges;
	raised a mound of stones 2 ft. base 1½ ft. high W. of cor
	Pits impracticable. -
	A stationary sandstone bowlder 8×6×3 ft. above
	ground. I mark on N.W. cor., T. 18 S R 7 E S 22 B O and
	+(cross) above, which bears S. 20° E 5 lks. dist. and 2½ ft.
	above ground
	This cor. stands on steep W. slope 90 ft. below divide
	Land mountainous very rugged
	Soil. clay, gravel and huge bowlders
	Timber cedar and pinion of scrubby growth
	Mountainous land 80.40 chs.
	Sept. 23: At this cor. I set off 0° 02' S. on the decl.
	arc and at 11h 53m a.m./m.t observe the sun on
	the meridian: the resulting lat. is 39° 14' 44" N.
	East bet. secs. 15 and 22
	Over mountainous land
	Ascending abruptly
2.50	Top of spur runs S.W. 100 ft. above cor.
	Thence along steep S. slope
10.30	Top of spur ridge runs S.: thence on gradual
	descent, on S. slope
21.60	Head of ravine drains S. - Ascending to
27.00	Top of spur runs S. - Descending
33.00	Head of ravine drains S.W. - Ascending to

Resurvey, Subdivision of T 18 S R 7 E

Chains	
35.00	Top of slope, enter small plateau, course N W and S E at 2.00 ft. above sec. cor. — Enter timber
39.45	Edge of plateau bears N.E. and S.W begin abrupt descent on slide. - Leave timber
40.21	The equi distance; a stationary sandstone 24x24x 18 ins. above ground for 1/4 sec. cor. I mark 1/4 on N face from which A pinion tree 6 ins. diam. bears N 39° W. 39 lks. dist marked 1/4 S 15 B.T. No other trees within limit Raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
53.50	Perpendicular sandstone break 40 ft. deep bears N. 70° E and S. 70° W. — Head of box canyon bears S.W. 3 chs. Thence over talus, in canyon
58.90	Dry wash drains N. 75° E. in bottom of canyon 40 ft. below plateau
60.40	Same wash drains S. 60° E. Thence along north side of wash on broken slope and gradual descent
80.42	The cor. of secs. 14-15-22 and 23 Land Mountainous very rugged and broken Soil, clay, gravel and large bowlders 3d rate Timber Pinion and cedar, of scrubby growth Mountainous land 80.42 chs. — Sept. 23: at this cor. I set off 39° 15' N on the lat. arc 0° 04' S. on the decl. arc and at 4h 50m p.m. I set determine a true meridian with the solar. — September 23, 1909

Sept 26, 1909: I can find no trace of the cor. of secs. 1-2 11 and 12 nor the 1/4 sec. cor. bet. secs. 11 and 12 and I therefor begin at the cor. of secs. 11-12-13 and 14 which is a sandstone 12x8x5 ins. above ground firmly set marked and witnessed as described by the surveyor general: thence I run North on a random retracement line bet. secs. 11 and 12, and at 40.00 chs. search diligently for the 1/4 sec cor. which can not be found; I set a temp. 1/4 sec. cor. and continue as before to 80.00 chs where a carefull search was made but no trace of the cor of secs. 1-2-11 and 12 could be found; and setting a

Chains	
	temp. cor. for secs 1-2-11 and 12 I run S 89°45' E. on a retracement line bet. secs. 1 and 12; at 40.00 chs. a diligent search failed to disclose any trace of the 1/4 sec cor. and I set a temp 1/4 sec. cor. and continue as before to 82.16 where I intersect E. bdy. of Tp. at 56 lks. S. of cor. of secs. 1-6-7 and 12 which is a sandstone 6x6x5 in. above ground firmly set and marked as described by the survey but markings much defaced by erosion; I re-cut the marks, 1 notch on N. and 5 notches on S. edges and raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Thence I run on resurvey line S. 89°51' W on a true line bet. secs. 1 and 12
	Over mountainous land
	Ascending over broken slope - scattering timber
19.75	Top of spur ridge ~~run~~ S 150 ft. above cor.
	Descending over rolling surface to
31.50	Bottom of ravine drains S. 125 ft. below spur
	Ascending gradually
41.05	Equal distance bet. cors; Set a sandstone 18x9x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. —
43.70	Top of ridge runs N. and S. 90 ft. high
	Descending abruptly
59.00	Bottom of gulch 200. ft. deep wash with alkaline seep. drains S. W.
	Ascending abruptly to
77.10	Top of ridge bears N. and S. 340 ft. above wash
	Descending abruptly
82.16	The temp. cor. of secs. 1-2-11 and 12 Set a sandstone 18x10x6 ins. 12 ins. in the ground for cor. of secs 1-2-11 and 12 marked with 1 notch on E and 5 notches on S. edges from which A cedar tree 4 ins. diam. bears S 44°06' E 5 lks. dist. marked T. 18 S. R 7 E S 12 13 T
	No other tree within limit
	Raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	This cor. stands in steep W. slope 100 ft. below top of ridge. —
	No trace of original cor. could be found
	Land Mountainous

Chains	
	Soil clay, gravel and bowlders 3d and 4th rate
	Timber scrub cedar and pinion scattering
	Mountainous land 8.2,16 chs. —
	Sept. 26: at this cor. O set off 1° 12' S. on the decl. arc and at 11h 51m a.m. l.m.t. observed the sun on the meridian; the resulting latitude is 39° 16' 28" N.
	South bet. secs. 11 and 12
	Over mountainous land
	Along steep rocky W. slope to
3.10	Spur ridge breaks abruptly S.
	Descending in slide and bowlders
14.50	Alkaline seep in channel 30 ft. deep 60 lks wide in bottom of hollow. 390 ft. below cor. drains S. 65° W.
	Ascending abruptly
15.33	Top of wash and spur running W. . Descending
18.00	Hollow drains W. 75 ft. deep. - ascending
22.70	Top of spur projecting W 90 ft. high
	Descending gradually over broken W. slope
29.00	Hollow drains W. — Ascending to
32.00	Top of spur ridge runs W. 60 ft. high
	Descending
40.00	Set a hard red sandstone 25 x 12 x 8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
41.00	Descending abruptly on S.W. slope
46.00	Descent becomes gradual on rolling surface
80.00	The cor. of secs. 11-12-13 and 14 as heretofore described. —
	This cor. stands 900 ft. below the cor. of secs 1-2-11 and 12
	Land mountainous.
	Soil clay and large bowlders, Bad Lands 4th rate
	No timber
	Mountainous land 80.00 chs.
	Sept. 26: at 2h 30m p.m. l.m.t. O set off 39° 16' 28" N. on the lat. arc 1° 14' S. on the decl. arc and determine with the solar, a meridian at the cor. of secs 1-2-11 and 12 thence, in order to locate the cor.

chains	of secs. 2-3-10 and 11 I run
	N. 89° 42' W. on a retracement line bet. secs. 2 and 11
40.06	A carefull and persistent search failed to discover any trace of the 1/4 sec. cor. - I set a limestone 1/4 sec. cor. and continue as before
80.08	Bearing S. 51 lks. I find a mound of stones much disintegrated, and markings for cor. obliterated but identify it as the original cor. of secs. 2-3-10 and 11 and reestablish it as follows
	I set a hard sandstone 18 x 7 x 5 ins. 12 ins. in the ground for cor. of secs. 2-3-10 and 11 marked with 2 notches on E. and 5 notches on S. edges from which
	A pinion tree 10 ins. diam. bears S. 84° 21' E 80 lks. dist. marked T. 18 S. R. 7 E S 11 B.T
	A pinion tree 6 ins. diam. bears N. 73° 54' W. 33 lks dist. marked T 18 S R 7 E S 3 B T
	No other trees within limit
	Raised a mound of stones 2 ft. base 1 1/2 ft. high
	W. of cor. Pits impracticable
	Thence I make the following resurvey
	N. 89° 56' E. bet. secs. 2 and 11
	Over mountainous land. - Through timber
	Descending gradually in open hollow draining S
8.95	Enter dry wash from E. trending S
10.00	Leave wash, turns N., cross low spur to
12.00	Dry wash drains E.
	Begin ascent on slide and bowlders
21.00	Top of slope bears N. and S 145 ft. above wash
22.00	Begin descent
25.30	Enter bottom of gulch draining S 90 ft. deep.
26.25	Wood road bears N. and S in bottom of gulch
27.00	Begin ascent
34.00	Top of slope bears N and S. 100 ft. above gulch
	Enter rolling plateau
40.04	Set a sandstone 18 x 9 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	A cedar tree 10 ins. diam. bears S 41° 05' E. 30 lks. dist. marked 1/4 S. 11 B T
	A cedar tree 8 ins diam. bears N 17° 03' W. 28 lks. dist marked 1/4 S 2 B T
	No trace of original cor could be found
46.90	Begin abrupt descent. bears N.W. and S.E.

Resurvey, Subdivision of T 18 S R 7 E

Chains	
54.20	Road to coal mine in T 17 S R 7 E bears S 30° E and N 30° W.
55.10	Dry wash drains S. 35° E in bottom of narrow gulch 150 ft. below plateau
	Ascending abruptly
56.40	Top of slope bears N W and S E 60 ft. above wash;
	Enter rolling bench
63.70	Edge of precipitous break to
65.20	Stream 3 lks. wide in bottom of narrow gulch 80 ft. below bench, drains S
	Ascending
70.00	Ascent becomes abrupt on rocky slope N. and S
	Leave timber, bears N and S
80.05	The cor. of secs. 1-2-11 and 12
	This cor. stands 250 ft. above stream
	Land mountainous
	Soil sandy loam and clay 2d and 3d rate
	Timber cedar and pinion, scrubby but dense growth
	Mountainous land 80.05 chs. —
	September 26, 1909

Sept. 27, 1909: Being unable to locate the cor. of secs. 3-4 9 and 10 by other means I begin at the cor. of secs. 2-3-10 and 11 and run N. 89° 45' W on a retracement line bet. secs. 3 and 10 and at 40.46 chs search for the 1/4 sec. cor but can find no trace of it and setting a temp 1/4 sec. cor I continue as before: At 80.92 I search diligently for the cor of secs. 3-4 9 and 10 but can find no trace of it and setting a temp. cor., I run south on a retracement line bet. secs. 9 and 10: at 40.00 chs. I could find no trace of the 1/4 sec. cor. and setting a temp 1/4 sec. cor. I continue as before and at 80.35 chs. fall 50 lks. W. of the cor. of secs. 9-10-15 and 16 as heretofore described And from this cor. make resurveys as follows.

	North bet. secs. 9 and 10
	Descending gradually in bottom of Canyon
8.60	Dry wash 10 ft. deep. drains N. 20° W
6.75	Same wash drains N. 20° E
18.60	Enter timber course E. and W.
21.04	Bank of Cottonwood creek in channel 10 ft. deep.

Chains	
	flows E.; swift current 8 ins. deep.
21.80	West. bank of creek. - Ascend 12 ft. to
22.00	Enter Cultivated field. of Robert Johnson, course E and W
	Leave timber, and ascend gradually
24.40	Robert Johnsons Cabin 12 x 14, built of boards (not habitable)
	bears W. about 5 chs.; field extends west about 10 chs to fence
29.50	Leave cultivated land course E and W.:
	Irrigating ditch 4 ft. wide flows E.
30.14	Fence bears E. and W.
30.26	County road ~~Coal Mine to Sanpete Valley~~ bears E. and W.
31.00	Enter mountainous land, course E. and W.
	Begin abrupt ascent on broken slope
39.00	Ravine drains S.W. 30 ft. deep
40.00	Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground
	for 1/4 sec cor. marked 1/4 on W. face from which
	Face of limestone cliff 5 ft. high facing S., bears N. 73°05' E
	50 lks. dist. marked 1/4 S 10 over cross (+) 2 ft. above ground
	No other bearing objects within limit.-
	The surface being too steep to retain mound, and composed
	of soft. alkalin clay it was omitted.- No trace of old cor. found
54.00	Top of slope bears N.W. and S.E 385 ft. above canyon
	Enter remnant of plateau
65.00	Begin abrupt descent on rocky slope course N.W and S.E
74.50	Decent becomes gradual on rolling surface
80.00	Set a Sandstone 18 x 8 x 6 ins. 12 ins. in the ground for
49.00	
31.00	cor. of secs. 3-4-9 and 10 marked with 3 notches on E.
	and 5 notches on S. edges: from which
	A cedar tree 6 ins diam. bears N. 62°28' E. 47 lks. dist.
	marked T. 18 S R 7 E. S 3 B T
	No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high N. of
	cor. Pits impracticable
	This cor stands 290 ft. below plateau
	No trace of original cor. could be found
	Land open creek bottom or canyon and Mountainous
	Soil gravelly loam and clay strewn with bowlders
	2d and 4th rate
	No timber except fringe along creek and a few
	scattering cedars.
	Mountainous land 49.00 chs.—

East bet. secs. 3 and 10

Resurvey, Subdivision of T. 15 S R 7 E.

Chains	
	Over mountainous land
	Descending to
1.75	Dry wash drains S.E
	Begin gradual ascent over broken hollow
	Enter timber course N. and S.
12.00	Dry wash in ravine 30 ft. deep drains S. 25° E.
21.75	Dry wash in ravine 40 ft. deep drains S. at foot of abrupt ascent
25.00	Top of slope bears N. and S. 150 ft. high: enter plateau
	Thence over rolling surface to
36.50	Begin descent. bears N. and S. - Leave timber
40.21	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. —
41.90	Dry wash in gulch 50 ft. deep, drains S.
	Ascending to
48.00	Top of slope bears N. and S.; enter rolling bench 90 ft. above wash. - Enter timber
60.00	Descending to
63.70	Bottom of slope and wash draining S 75 ft. below bench
	Thence over broken surface
76.00	Dry wash in channel 20 ft. deep drains S
80.42	The cor. of secs. 2-3-10 and 11
	Land Mountainous
	Soil. clay and gravelly, 3d rate
	Timber cedar and pinion, scrubby growth
	Mountainous land 80.42 chs.
	September 27, 1909

General Description

For general description see field notes of survey of subdivision lines

Frederick W. Hanson
Compassman

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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 Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision lines of Tp. 18 S. R. 7 E. S. L. B. & M., Utah, showing the respective capacities in which they acted:

Willie Tuttle, Chainman.
Clarence Johnson, Chainman.
E. M. Cox, Moundman.
Willie Tuttle, Moundman.
E. M. Cox, Axman.
Clarence Johnson, Axman.
A. P. Hanson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Tp. 18 S. R. 7 E. of the Salt Lake Base and meridian, state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Willie Tuttle, Chainman.
Clarence Johnson, Chainman.
E. M. Cox, Moundman.
Willie Tuttle, Moundman.
E. M. Cox, Axman.
Clarence Johnson, Axman.
A. P. Hanson, Flagman.

Subscribed and sworn to before me this 1st day of October, 1909

SEAL

Frederick W. Hanson
Compassman.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson,

I, Frederick W. Hanson, Compassman for, 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 18th day of May, 1905, 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 resurvey of the subdivisiona lines of Township 18 South, Range 7 East

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 resurvey.

Frederick W. Hanson
~~United States Deputy Surveyo~~
Compassman for Andrew P. Hanson D. S.

Subscribed by said Frederick W. Hanson, and sworn to before me this 4th day of December, 1905

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 191

The foregoing field notes of the resurvey of the subdivisional lines of Township 18 South, Range No. 7 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman, for Andrew P. Hanson, D. S under his contract No. 289, dated May 18, 1905, having be critically examined, and the necessary corrections and explanations made, the said field notes, and re surveys they describe, are hereby approved.

Thomas Hull
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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4—679.

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

Filed Oct.29, 1909.

BOOK A-359
Q.

FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISION LINES

O F

TOWNSHIP NO. 18 SOUTH,

RANGE NO. 7 EAST,

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Frederick W.Hanson, Compassman
for Andrew P.Hanson, *United States Deputy Surve*

Under his Contract No. 289, *dated* May 18, *1*

Survey commenced Sept.19, *1*

Survey completed Sept.30, *1*

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high low closing
19-31-09
13-50 8-19

BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Willie Tuttle,	Chainman.
Clarence Johnson,	"
Willie Tuttle,	Moundman.
E.M.Cox,	"
Clarence Johnson,	Axman.
E.M.Cox,	"
A.P.Hanson,	Flagman.

BOOK A-359

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Willie Tuttle and Clarence Johnson 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 subdivision lines of township 18 south range 7 east S.L.B.&M.

Willie Tuttle, Chainman.
Clarence Johnson, Chainman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, Willie Tuttle and E. M. Cox 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 subdivision lines of township 18 South range 7 East S.L.B.&M.

Willie Tuttle, Moundman.
E. M. Cox, Moundman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

WE, E. M. Cox and Clarence Johnson 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 subdivision lines of township 18 south range 7 east S.L.B.&M.

E. M. Cox, Axman.
Clarence Johnson, Axman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

I, A. P. Hanson, 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 subdivision lines of township 18 south range 7 east S.L.B.&M.

A. P. Hanson, Flagman.

Subscribed and sworn to before me this 17th day of Sept., 1909

Frederick W. Hanson
Compassman

SEAL

Subdivision of T18SR7E

chains	Survey commenced September 19. 1909 and executed with a W & L E Gurley Light Mountain transit with solar attachment.— The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.— The instrument was examined, tested on the true meridian at Salt Lake city, found correct and was approved August 21, 1909 Note: For description of test of adjustments complete, reference is hereby made to the field notes of the resurvey of south boundary of this township Book "N" under date of Sept. 10-11, 1909 and being confident all the adjustments remain satisfactory I deem it unnecessary to repeat the test at this time.—
	September 19: At the cor. of secs 25-26-35 and 36 I set off 4° 32' N. on the decl arc and at 11h 54m a.m. T.M.T. observe the sun on the meridian: the resulting latitude is 39° 13' N.— I begin at the cor. of secs. 25-26-35 and 36 T. 18SR7E SLB & M., latitude 39° 13' N. longitude 111° 08' 03" W as reestablished by me this date and described in field notes of resurveys of subdivision, of this township Book "P" Thence I run S. 0° 01' E on a random line bet. secs. 35 and 36
40.00	set temp. 1/4 sec. cor.
79.80	Intersect S. bdy. of Tp. 7 lks. E. of the cor. of secs. 1-2-35 and 36 as heretofore described Thence I run N 0° 3' E. on a true line bet. secs 35 and 36 Over mountainous land Ascending abruptly on Bad Lands
9.20	Top of slope bears E. and W. 175 ft. above cor. Enter S.E. cor. of plateau

Chains	
	Over broken surface to
11.00	Break of plateau bears N W and S E
	Begin abrupt descent to
14.20	Head of ravine drains S.75° E 50 ft. below plateau.-
	Ascending abruptly in ledges
15.75	Top of rocky bluff projecting E from plateau 40 ft. above ravine
	Descending abruptly to
17.30	Bottom of ravine drains S.E. 60 ft. below bluff
	Begin ascent on talus
23.45	Perpendicular sandstone wall 30 ft. high bears E. and W.
23.80	Top of ascent, 75 ft. above ravine course E and W.
	Enter rolling plateau
	Begin gradual ascent
28.00	Enter timber course E. and W.
28.75	Dry wash in hollow 20 ft. deep. drains E
39.90	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 7 ins. diam. bears S 89°-02' W. 61 lks. dist. marked 1/4 S 35 B T
	A cedar tree 6 ins. diam. bears S 51°-44' E 34 lks. dist. marked 1/4 S. 36 B.T.
54.90	Dry wash in hollow 20 ft. deep. drains E
63.60	Wash drains E in broken ravine 25 ft. deep.-
70.05	Edge of abrupt break from plateau. bears N. 75° W. and S. 75° E
	Thence among large bowlders and over ravines
	Descending.-
	Leave timber, course parallel with break
78.10	Perpendicular bank 12 ft. high bears N 75° W and S. 75° E
78.30	Dry wash in bottom of gulch. 220 ft. below plateau, drains S. 75° E.
	Ascending gradually to
78.70	Begin abrupt ascent on clay slope
79.80	The cor. of sec. 25-26-35 and 36
	This cor. stands 30 ft. above wash in soft clay slope
	Land mountainous

Chains	
	Soil, alkaline clay and large boulders on slopes: on plateau sandy, gravelly loam 2nd to 4th rate. —
	Timber, scrubby cedar, or juniper, and pinion, of dense growth, but of no commercial value. —
	Mountainous land 79.80 chs.
	September 19, 1909
	Sept. 20: at the cor. of secs. 14-15-22 and 23, as found, being a sandstone firmly set, 14 x 12 x 10 ins. above ground properly marked, but markings faint and indistinct. I re-cut the notches, 2' on the E. and 3' on the S. edges, and raise a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
	Thence I run
	S. 0° 01' E. on a random line bet. secs. 22 and 23
40.00	Set temp. ¼ sec. cor
80.00	Set temp. cor. of secs. 22-23-26 and 27
	Thence I run
	East on a random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
80.96	Intersect N. and S. line 40 lks. N. of cor. of secs. 23-24-25 and 26 as heretofore described
	The east B.d.y. of sec. 23 being out of limit in measurement I run from above cor.
	West — on a true line bet. secs. 23 and 26
	Over mountainous land
	Ascending gradually over sand hills and Bad Lands
11.95	Dry wash 10 ft. deep drains S.E.
	Thence over sharp spur-ridges running S. from break
21.39	Lone cedar 6 ins. diam.
26.00	Begin abrupt ascent.
29.00	Top of sharp spur bears S.E. and N.W. 200 ft. above cor.
	Descending to
37.90	Wash in ravine 50 ft. deep drains S.E.
39.40	A sandstone boulder 10 ft. diam.
40.96	I set a gray sandstone 18 x 10 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
40.72	Top of spur ridge runs S. from break 80 ft. above wash. —

Chains	
	Descending abruptly
42.70	Ravine 70 ft. deep, drains S.
	Ascending abruptly on talus ridges
47.25	Perpendicular sandstone wall 50 ft. high, bears N. 60° E. and S. 60° W.
58.75	Top of ridge bears N. 60° E and S. 60° W. 460 ft. above 1/4 sec. cor.
	Descending on broken N. W. slope to
80.96	Intersect N. and S. line, extended, at 40 lks. S 0°01' E from the temp. cor. of secs. 22-23-26 and 27
	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 22-23-26 and 27 marked with 2 notches on S. and E edges. from which
	A cedar tree 5 ins. diam. bears N. 27° 34' W. 16 lks. dist. marked T 18 S R 7 E S 22 B.T.
	A pinion tree 10 ins. diam. bears N. 69° 43' E. 54 lks. dist. marked T 18 S R 7 E S 23 B T
	No other trees within limit; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable. —
	This cor. stands 310 ft. below top of ridge
	Land mountainous, steep and very broken
	Soil, clay, sand and bowlders; Bad Lands, 3rd rate
	Timber, a few scrubby juniper and pinion
	Mountainous land 80.96 chs. -
	Sept. 20, 1909: At this cor. I set off 7° 08' 00" N. on the decl. arc and at 11.54 a.m. P.M.T. observed the sun on the meridian; the resulting lat. is 39° 14' N. —
	N. 0°01' W. on a true line bet. secs. 22 and 23
	Over mountainous land
	Descending abruptly, through scattering timber
2.60	Descent becomes gradual, bears E. and W.
12.00	Perpendicular sandstone break bears E. and W. 40 ft. deep
	Descending on talus in bottom of gulch
19.40	Dry wash drains E. in box canyon 275 ft. below cor.
	Ascending
27.20	Perpendicular sandstone wall 50 ft. high bears E. and W.
	Leave box canyon. - Timber becomes dense
30.60	Enter rolling bench at top of ascent, course E. and W.
40.20	Set a sandstone 18 x 10 x 8 ins. 12 ins. in the ground for

Chains	
	1/4 sec. cor. marked 1/4 on W. face from which
	A cedar tree 9 ins. diam. bears S. 74° 28' W. 10 lks dist.
	marked 1/4 S. 22 B.T.
	A cedar tree 5 ins. diam. bears N. 55° 59' E. 32 lks. dist.
	marked 1/4 S. 23 B.T.
57.05	Dry wash. draining E in hollow 60 ft. deep.
66.50	Begin ascent, bears E. and W.
69.60	Top of ascent and ridge bears E. and W. 70 ft. above bench
69.95	Edge of perpendicular break 50 ft. deep course E. and W.
	Thence descending on talus, in bottom of gulch.
80.00	Dry wash drains E in bottom of gulch 260 ft. below ridge
	Ascending gradually
80.40	The cor. of secs. 14-15-22 and 23 as heretofore described
	Land Mountainous, broken, Bad Lands
	soil clay, sand and bowlders 3d rate
	Timber, scrub cedar and pinion
	Mountainous land 80.40 chs. —
	Sept. 20, 1909: At 4h 50m p.m. I mt. I sel. off 39° 15' N. on the lat. arc 1° 5' 45" N. on the decl. arc and at this cor determine a meridian with the solar. —
	September 20, 1909
	September 22, 1909: At 8h 45m a.m. I mt. I sel. off 39° 14' N. on the lat. arc 0° 26' [illegible] N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 22-23-26 and 27: thence, (having previously surveyed E bdy. of sec. 26) I run
	S. 0° 01' E. bet. secs. 26 and 27
	Over mountainous land
	Ascending abruptly
5.64	Top of slope bears E. and W. 310 ft. above cor.: enter flat top ridge and timber
8.30	Begin abrupt descent, bears E. and W.; leave timber
29.30	Top of precipice 40 ft. deep. course E. and W.
	Thence in bottom of box canyon
38.50	Dry wash draining E in bottom of canyon 500 ft. below cor.
	Ascending on talus
39.65	Perpendicular wall of sandstone 50 ft. high bears E. and W.
	Leave canyon, and ascend
40.00	Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground for
	1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 5 ins. diam. bears S. 81° 35' W. 66 lks.

Chains	dist. marked 1/4 S. 27 B.T.
	A cedar tree 15 ins. diam. bears S 62°42' E 73 lks dist. marked 1/4 S. 26 BT
	Entire timber, bears E. and W.
53.80	Top of ascent bears E. and W. 515 ft. above wash; entire rolling plateau
64.60	Wash drains E. in hollow 30 ft. deep.
70.15	Wash drains E. in hollow 25 ft. deep.
80.00	Set a Sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 26-27-34 and 35 marked with 1 notch on S. and 2 notches on E. edges from which
	A pinion tree 8 ins. diam. bears N. 35°46' E 47 lks. dist. marked T. 18 S R 7 E S 26 BT
	A pinion tree 7 ins. diam. bears N. 51°39' W. 41 lks. dist. marked T 18 S R 7 E S. 27 BT
	A pinion tree 10 ins. diam. bears S. 27°10' E. 42 lks. dist. marked T 18 S R 7 E S 35 BT
	A pinion tree 10 ins. diam. bears S 35°10' W. 88 lks. dist. marked T 18 S R 7 E S 34 BT
	Land Mountainous, broken, Bad Lands
	Soil clay, gravel and bowlders 3rd. rate
	Timber, cedar and pinion, scrubby growth
	Mountainous land 80.00 chs.-
	East on a random line bet. secs. 26 and 35
40.00	Set temp. 1/4 sec. cor.
81.04	Intersect N. and S. line 33 lks. S of cor. of secs. 25-26-35 and 36
	Thence I run
	S. 89°46' W on a true line bet. secs 26 and 35
	Over mountainous land
	Descending in bottom of canyon
1.10	Dry wash drains S.E.
	Begin ascent on steep broken slope of canyon, facing N.E. in scattering timber
12.90	Top of canyon bears N.W. and S.E. 250 ft. above wash.-
	Thence over rolling plateau and gradual ascent through dense timber.-
41.04	Set a sandstone 18 x 8 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits

Subdivision Lines of T. 18 S. R 7 E.

Chains	
	impracticable.—
49.15	Wash drains N 75° E
65.00	Edge of break, sloping S., bears S 75° W. and S. 75° E
81.04	The cor of secs. 26-27-34 and 35
	This cor. stands 400 ft. above cor. of secs. 25-26-35 and 36
	Land mountainous, broken and rolling
	Soil gravely, bowlders and clay in canyons, 3d rate
	Timber, scrubby cedar and pinion.
	Mountainous land 81.04 chs.
	Sept. 22: The weather being cloudy I could not observe the sun while on the meridian.—
	S. 0° 01' E. on a random line bet secs 34 and 35.
40.00	Set temp. ¼ sec. cor.
79.74	Intersects S. bdy of Tp. 1.10 chs. W. of cor of secs. 2-3-34 and 35
	A stationary sandstone 24×14×11 ins. above ground for closing cor. of secs. 34 and 35 I mark C C on N. face with 2 grooves on E. and 4 grooves on W. faces, from which
	A pinion tree 5 ins. diam. bears N. 55° 41' W. 33 lks. dist. marked T 18 S R 7 E. S. 34 B.T.
	A cedar tree 5 ins. diam. bears N. 32° 40' E 39 lks. dist. marked T. 18 S R 7 E S. 35 B T
	I destroy all markings on cor of secs. 2-3-34 and 35 pertaining to secs. 34 and 35
	Steven Owen
	N 0° 01' W on a true line bet. secs. 34 and 35
	Over mountainous land
	Through scrub timber, on gradual descent, broken surface
4.24	Wash drains E. in hollow 35 ft deep
7.75	Dry wash drains N. 65° E. in ravine 60 ft. deep.- Ascending
10.45	Top of spur ridge, runs E. 60 ft. above wash. Descending
13.85	Wash drains E. in hollow 75 ft. deep.- Begin abrupt Ascent
21.45	At top of talus sloping E. at point of perpendicular cliff 60 ft. high course N 26° W and S 30° W., and 160 ft above wash Descending abruptly
31.50	Dry wash drains E. in in sharp ravine 140 ft. below foot of cliff.— Begin abrupt ascent
32.75	Top of ridge 60 ft. above wash, projects E.- Descend abruptly
34.15	Dry wash in sharp ravine 50 ft. below ridge drains E Ascending broken slope, abruptly to
36.40	Top of break bears E. and W. 100 ft. above wash. Begin gradual ascent

chains	
39.87	The equi distance bet. cors: - Set a sandstone 18x9x7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 6 ins. diam. bears S 27°03' E. 14 lks. dist. marked 1/4 S 35 B T
	A cedar tree 10 ins. diam. bears N. 74°18' W. 7 lks dist. marked 1/4 S 34 B T
70.15	Foot of slope bears. bears N E and S W., wash drains S W
	Begin abrupt ascent in break among huge bowlders
78.55	Top of break bears E. and W. 180 ft. above wash
	Begin gradual descent on bench to
79.74	The cor. of secs. 26-27-34 and 35
	Land mountainous.
	Soil. clay. sand and large bowlders, 3rd rate
	Timber, cedar and pinion, scrubby growth
	Mountainous land 79.74 chs. -
	September 22, 1909
	September 24: At 8h 30m ami. l.m.t. I set off 39°15' N. on the lat. arc 0°21' S on the decl. arc and determine a meridian with the solar at the cor of secs. 15-16-21 and 22, heretofore described. - Thence I run
	S 0°02' E on a random line bet. secs. 21 and 22
40.00	Set temp 1/4 sec. cor
80.00	Set. temp 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. 1/4 sec. cor.
80.36	Intersect N. and S. line 28 lks. N. of cor. of secs. 22-23-26 and 27
	Thence I run
	N 89°48' W. on a true line bet. secs. 22 and 27
	Over mountainous land
	Along steep N. slope
2.00	Begin descent on N.W. slope
14.40	Perpendicular sandstone break 50 ft. deep. Course N. 20° E and S 20° W.
	Enter bottom of box canyon about 5 chs. N of head
	Descending gradually to
19.35	Dry wash drains N 20° E 340 ft. below cor.
	Ascending abruptly on talus to
19.95	Perpendicular sandstone wall 50 ft. high bears N. and S.

Subdivision of T. 18 S R 7 E

Chains	
	Leave Box Canyon
21.05	Top of slope bears N. and S. 75 ft. above wash
	Enter sloping bench and ascend gradually on broken surface. — Enter timber course N. and S.
40.18	Set a sandstone 18 x 13 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which
	A cedar tree 15 ins. diam. bears N. 35° 47' E 9 lks. dist. marked 1/4 S 22 B T
	A pinion tree 5 ins. diam. bears S 63° 0' E. 11 lks. dist. marked 1/4 S 27 B.T
75.50	Begin abrupt ascent on talus over huge bowlders
	Leave timber course N. and S.
80.36	The temp. cor set this day
	Set a sandstone 18 x 9 x 7 ins. 12 ins. in the ground for cor. of secs. 21-22-27 and 28 marked with 3 notches on E. and 2 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor., Pits impracticable. —
	This cor. stands at foot of nearly perpendicular escarpment 2000 ft. high, and 230 ft. above 1/4 sec. cor.
	Land mountainous.
	Soil clay, gravel and large bowlders at rate
	Timber, cedar and pinion, of scrubby growth; dense on bench and few scattering trees on steep slopes. —
	Mountainous land 80.36 chs
	Sept. 24: The sky being overcast during the noon hour I obtained no observation for latitude this day. —

	N. 0° 02' W. bet. secs. 21 and 22
	Over mountainous land, steep E. slope, very broken
	Descending over bowlders
6.50	Ravine drains N. E. Enter timber
19.70	Ravine drains N. 70° E 90 ft. below cor
	Ascending
25.00	Spur ridge runs east 140 ft. high.
	Descending gradually on rough surface
40.00	Set a sandstone 18 x 8 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A cedar tree 10 ins. diam. bears S 40° 05' E 42 lks. dist. marked 1/4 S. 22 B.T.
	A pinion tree 6 ins. diam. bears N 53° 0' W 34 lks. dist. marked 1/4 S 21 B T
43.80	Wash drains S 20° E in hollow 160 ft. below ridge

Subdivision of T 15 S. R 7 E

Chains	
	Ascending among huge bowlders
52.00	Top of ridge bears S 60° W and N 60° E 50 ft. high
	Descending gradually on broken rolling bench
56.20	Wash in hollow 30 ft. deep drains E.
64.00	Wash in ravine 60 ft. deep drains E.
73.50	Begin abrupt descent in ravine
75.00	Dry wash drains S 60° E. in bottom of narrow ravine 75 ft. deep. —
	Begin abrupt ascent on S.W. slope. - Leave timber
80.00	The cor. of secs. 16-16-21 and 22
	This cor. stands 110 ft. above wash
	Land Mountainous, steep broken slope at foot of perpendicular cliffs
	Soil, clay and huge bowlders 4th rate
	Timber, cedar and pinion of scrubby growth and somewhat scattering
	Mountainous land 80.00 chs. —
	September 24, 1909

Sept. 25: At 8h 32m a.m. I set off 39°14' N on the lat. arc 0°45' 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

S. 0°02' E bet. secs. 27 and 28

Over mountainous land

Ascending gradually over broken E slope and takes ridges at base of high cliffs

9.50	Top of spur ridge runs E
	Descending
18.90	Bottom of ravine 90 ft. deep drains E
	Ascending gradually to
40.00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 6 ins. diam. bears N. 19° 48' E 36 lks. dist. marked 1/4 S. 27 B.T.
	No other tree within limit; raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Pit impracticable
	This cor. stands at base of nearly perpendicular cliffs or escarpment about 2000 ft. high and to continue further is impracticable hence I discontinue the line here. —
	Land mountainous very broken

Subdivision of T. 18 S R 7 E

Chains	
	Soil clay and large bowlders
	Timber, cedar and pinion scattering
	Mountainous land 40.00 chs.
	From the cor. of secs 26-27-34 and 35 I run
	West bet. secs. 27 and 34
	Over mountainous land
	Ascending gradually in timber
8.00	Edge of break bears S. 80° E and N 80° W.
	Begin abrupt descent
10.30	Descent becomes gradual, and timber scattering
12.60	Enter rolling bench course N.W and S.E
16.90	Begin abrupt descent course N.W. and S.E
23.00	Bottom of gulch drains S.E. from N. 20° W. 240 ft. below cor. —
	Thence along steep, broken N. slope; ascending
40.00	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.; Pits impracticable. —
	This cor. stands 200 ft. above bottom of gulch and at foot of nearly perpendicular cliffs about 2000 ft. high; — Further extension of this line is impracticable hence I abandon it here. —
	Land mountainous
	Soil clay, gravel and large bowlders ~~and~~ rock
	Timber, pinion and cedar mainly scattering
	Mountainous land 40.00 chs. —
	From the cor. of secs. 15-16-21 and 22 I run
	West bet. secs. 16 and 21
	Over mountainous land
	Descending abruptly
3.10	Dry wash in bottom of hollow drains S. 120 ft. below cor.
	Ascending to
7.40	Top of spur ridge runs S. 100 ft. above wash
	Thence along steep S. slope
13.80	Begin descent
21.35	Bottom of ravine draining N. 35° W. to N. 200 ft. below spur
	Begin abrupt ascent on talus from big cliffs

Subdivision of T 18 S R 7 E

Chains

40.00 Set a sandstone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
Pits impracticable.-
This cor. stands 270 ft. above ravine at foot of nearly perpendicular cliff about 2000 ft. high, and to extend this line further is impracticable. I therefor discontinue here.-
Land Mountainous
Soil, clay, and large bowlders 4th rate
Timber pinion and cedar, of scrubby growth and scattering.-
Mountainous land 40.00 chs.-
Sept. 25: The sky being overcast during the noon hour I obtained no observation for latitude

September 25, 1909

Sept. 27, 1909: At 8h 35m a.m., T.m.T. I set off 39°16'30" N. on the lat. are 1°31' S. on the decl. are and determine a true meridian with the solar at the cor. of secs. 1-2-11 and 12
Knowing I can not intersect N. bdy. of Tp. within limit I run N. 0°01' W. bet. secs. 1 and 2
Over mountainous land,
Ascending gradually on steep broken W. slope
37.00 East edge of wash in bottom of gulch course S. 15° W. 275 ft. below cor
Thence along edge of wash
40.00 Set a sandstone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
Pits impracticable.-
This cor stands 20 lks. E. of bank of wash
Ascending gradually in bottom of gulch
45.20 Wash 50 lks wide flows S. 20° W.
45.70 Perpendicular bank 30 ft. high
Enter timber
50.75 Same wash drains S. 60° E in channel 20 ft. deep.
50.87 Dry wash drains S.N. in hollow
[illegible] Intersect N. bdy. of of Tp. 4.74 chs east of the cor. of secs. 1-2-35 and 36 which is a sand stone [illegible] firmly set marked

Subdivision of T. 18 S. R. 7 E.

Chains	
	and witnessed as described by the surveyor general
	Set a Sandstone 18×9×7 ins. 12 ins. in the ground for closing cor. of secs. 1 and 2 marked C.C. on S face with 1 grove on E and 5 groves on W. faces from which
	A cedar tree 5 ins. diam. bears S. 12°45' W. 41 lks. dist. marked T 18 S R 7 E S 2 B T
	No other trees within limit
	Raised a mound of stones 2 ft. base 1½ ft. high
	S. of cor. Pits impracticable. – I destroy all marks on the old cor. that refer to secs. 1 and 2
	This cor. stands in hollow 15 lks W. of wash and 150 ft. above the ¼ sec. cor.
	Land Mountainous rough and broken
	Soil. clay, gravel and, large bowlders on 1st ½ mile much alkali in wash
	Timber cedar and pinion, scrubby growth, scattering
	Mountainous land 81.00 chs. –
	Sept. 27: at this cor. I set off 1°35' S. on the decl. arc and at 11h 45m a.m. l.m.t. observe the sun on the meridian: the resulting lat. is 39°17'20" N.
	From the cor. of secs. 2-3-10 and 11 as heretofore described
	For reasons already explained I run,
	N. 0°01' W. bet. secs. 2 and 3
	Over mountainous and heavily timbered land
	Ascending gradually over broken bench land
40.00	Set a sandstone 18×13×5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W face from which
	A cedar tree 20 ins. diam. bears S. 73°04' E. 33 lks. dist. marked ¼ S. 2 B T
	A cedar tree 12 ins. diam. bears S 76°05' W. 18 lks. dist. marked ¼ S 3 B T
58.65	Dry wash drains S E in hollow 30 ft. deep
70.00	Dry wash 15 ft. deep drains S 20° E
81.15	Intersect N. bdy of Tp. 2.35 chs E. of cor of secs. 2-3 34 and 35 which is a sand stone 12×6×6 ins. above ground firmly set marked and witnessed as described by the surveyor general. –
	Set a sandstone 18×9×6 ins. 12 ins. in the ground for closing cor. of secs. 2 and 3 marked C.C. on S. face with 2 groves on E. and 4 groves on

Chains	
	W. faces; from which
	A pinion tree 9 ins. diam. bears S. 50° 55' W. 40 lks.
	dist. marked T. 18 S. R. 7 E. S. 3 B.T.
	A pinion tree 3 ins. diam. bears S. 10° 30' E. 12 lks.
	dist. marked T. 18 S. R. 7 E. S. 2 B.T.
	I destroy all marks on the old cor. that refer to secs. 2 and 3
	This cor. stands 3.20 ft. above the cor. of secs. 2-3-10 and 11.
	Land Mountainous, rolling, broken bench
	Soil gravelly loam, and bowlders 2d and 3d rate
	Timber Cedar and pinion of small size but dense growth
	Mountainous and heavily timbered land 87.16 chs. —
	September 27, 1909
	Sept. 28, 1909: From the cor. of secs. 3-4-9 and 10 as heretofore described; for reasons already explained, I run N. 0° 02' W. bet. secs. 3 and 4
	Over mountainous land
	Descending gradually
1.90	West end of a small earth dam across bottom of gulch about 100 ft. long 8 ft. high in centre
3.00	Bottom of gulch drains S. 25° E.
	Ascending gradually on broken slope
12.60	Top of ridge bears N. W. and S. E. 90 ft. high
	Descending
20.00	Bottom of slope bears N. W. and S. E. 75 ft. below ridge
	Thence on gradual ascent
40.00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable.—
	This cor. stands 220 ft. above the sec. cor. and close to the foot of impassable cliffs which makes further progress impracticable; wherefor I discontinue here.—
	Land mountainous.
	Soil sandy clay and alkali 3d rate
	Timber, a few Cedar and pinion scattering
	Mountainous land 40.00 chs.
	Sept. 28: at 9 h 55 m a.m., l.m.t. I set off 39° 15' 30" W. on the lat. arc 1° 57' S. on the decl. arc. and determine a meridian with the solar at the cor. of secs. 9-10

Subdivision

chains	15 and 16 as heretofore described; and as survey of the S.W. part of the township is impracticable I run West bet. secs. 9 and 16 on an auxiliary base line Over mountainous land,
0.60	Begin abrupt ascent on cliffs
7.50	Top of cliffs and spur ridge running N. 210 ft. above cor. - Enter timber
14.30	Begin abrupt descent course N. and S.
23.55	Bottom of slope bears N. and S.; enter cove 200 ft. deep Thence over broken surface to
28.05	Dry wash 10 ft. deep drains N. 30° E Ascending abruptly on break
32.55	Top of break bears N and S 120 ft. above wash Thence on gradual ascent
40.00	Set a sandstone 18×10×8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which A pinion tree 3 ins. diam. bears S 28°12' E. 32 lks. dist. marked 1/4 S 16 B T A pinion tree 4 ins. diam. bears N. 30°20' W. 12 lks. dist. marked 1/4 S 9 B.T. This cor stands on top of spur ridge running N. Thence over rolling bench, and gradual descent
61.40	Beginning of abrupt descent, course N. and S.
62.90	Dry wash in hollow 60 ft. deep drains N 30° E Ascending gradually on broken ridges to
78.00	Begin abrupt ascent course N and S
80.00	Set a sandstone 24×8×6 ins. 18 ins. in the ground for cor. of secs. 8-9-16 and 17 marked with 4 notches on S. and E. edges from which A cedar tree 5 ins. diam. bears N 39°50' E 29 lks. dist. marked T. 18 S R 7 E S. 9 B.T A Pinion tree 6 ins. diam bears S 11°05' W. 58 lks. dist. marked T 18 S R 7 E S 17 B T No other trees within limit; raised a mound of stones 2 ft base 1½ ft high W. of cor. Pits impracticable This cor. stands 150 ft. above wash Land, mountainous Soil, gravel, clay and large bowlders 3d rate Timber, cedar and pinion, Mountainous land 80.00 chs.- Sept. 28: at this cor. I set off 0° 59' S. on the decl. arc and at 11h 51m a.m.? observe the sun on the

Chains	meridian: the resulting lat. is 39°15'36" N.
	S. 0°01' E. bet. secs. 16 and 17
	Over mountainous land, through timber
	Ascending gradually along broken E. slope
20.00	Descending to
23.10	Wash in ravine 90 ft. deep drains N. E.
	Ascent becomes abrupt, over large bowlders
40.00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A pinion tree 6 ins. diam. bears N. 81°33' E 28 lks. dist. marked 1/4 S 16 BT
	No other trees within limit; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
	This cor stands 400 ft. above the sec. cor. on talus at foot of nearly perpendicular cliffs about 2000 ft. high. — Further projection of this line is impracticable hence I discontinue here.
	Land Mountainous
	Soil clay, gravel and large bowlders 3d rate
	Timber cedar and pinion.
	Mountainous land 40.00 chs. —
	N. 0°01' W. bet. secs. 8 and 9
	Over mountainous and heavily timbered land
	Descending on N. E. slope in timber
22.00	Foot of slope bears W. and S. 70° E 260 ft. below cor.
	Enter bottom of canyon
	George Fox's shanty 10 x 16 of rough lumber not battened — not habitable, bears N. 85° E about 16 chs.
	No other improvements. —
	Descending gradually to
32.55	Cottonwood Creek 50 lks wide between banks 10 ft. high flows E.; swift current 6 ins. deep, fresh water
	Begin gradual ascent
38.20	County road, from Castle Dale to coal mines and San Pete Valley bears E. and W.
	Ascent becomes steeper over clay hills, leave bottom of Cottonwood Canyon
40.00	Set a sandstone 15 x 8 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which

Subdivision of T. 18 S. R. 7 E.

Chains	
	A pinion tree 9 ins. diam. bears S. 58° 27' W. 57 lks. dist. marked 1/4 S. 8 B.T.
	A Pinion tree 5 ins. diam. bears S 12° 56' E. 66 lks. dist. marked 1/4 S 9 B.T.
43.50	Enter dry wash from N. turns S 20° W.
47.50	Leave wash turns N. 40° W.
50.00	Ascending abruptly. - Leave timber
52.75	Top of spur ridge runs W. 80 ft. high
	Descending along steep W. slope in clay
59.89	Dry wash 8 ft. deep in bottom of gulch, drains S.W.
	Ascending gradually in gulch
74.00	Begin abrupt ascent on S.E. slope
80.00	Set a sandstone 24×12×6 ins. 18 ins. in the ground for cor. of secs. 4-5-8 and 9 marked with 5 notches on S, and 4 notches on E. edges from which.
	A perpendicular limestone ledge facing E, bears S 22° 45' W 25 lks. to a cross (+) under T 18 S R 7 E S 8 B O at 4 ft. from the ground. -
	Raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	This cor stands on steep E. slope in talus clay 75 ft. above gulch. -
	Land Mountainous and nearly level creek bottom
	Soil, Clay, Gravel and bowlders 2d and 3d rate
	Timber cedar, pinion, and some cottonwood along creek
	Mountainous or heavily timbered land 80.00 chs. -
	September 28, 1909
	Sept. 29, 1909: at 8h 30m a.m. l.m.t. I set of 39° 16' 30" N on the lat. arc 2° 18' 00" 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 random line bet. secs. 4 and 9
40.00	Set temp 1/4 sec. cor.
80.08	Intersect N. and S. line at cor. of secs. 3-4-9 and 10
	Thence I run
	West on a true line bet. secs. 4 and 9
	Over mountainous land
	Ascending gradually over broken slope

Chains	
13.00	Ascent becomes steeper course N W and S.E.
20.33	Top of sharp spur ridge projecting S.E. 130 ft. above cor
	Descending
23.50	Ravine 50 ft. deep drains S E
	Begins abrupt ascent on talus slide to
26.80	Perpendicular cliff bears N. and S. 30 ft. high
27.25	Top of spur ridge runs N. and S. 125 ft. above ravine
27.35	Begins abrupt descent
35.00	Wash in gulch drains S 30° E 200 ft. below ridge
36.00	Ascend on broken slope
40.04	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground
	for 1/4 sec. cor. marked 1/4 on N. face from which
	A pinion tree 6 ins. diam. bears N 17° 33' W 36 lks.
	dist marked 1/4 S 4 B.T.
	A cedar tree 5 ins. diam. bears S 70° 38' E 44 lks.
	dist. marked 1/4 S 9 B T
43.72	Top of spur ridge bears N. and S. 75 ft. above wash
	Descending
46.30	Dry wash drains S.E. in hollow 70 ft. deep.
	Ascending over broken slope
58.30	Top of slope bears N. and S.; enter plateau 230 ft.
	above wash.
	Thence on gradual descent
65.40	Abrupt descent bears N. and S.
67.65	Head of ravine draining S. 60 ft. deep.
	Ascending
69.20	Top of sharp spur ridge projecting S.
	Begins abrupt descent on clay and bowlders.
72.60	Dry wash in narrow canyon 160 ft. below ridge
	drains S.
	Ascending to
80.08	The cor. of secs. 4-5-8 and 9
	This cor. stands 120 ft. above wash
	Land Mountainous
	Soil, clay, gravel, bowlders and alkali 3d rate
	Timber, bunches of scrub cedar, scattering
	Mountainous land 8 0.05 chs.—
	Sept. 29: at this cor. I set off 2° 22' S. on the decl. arc
	and at 11h 50m a.m., P.M.T. observe the sun on the
	meridian: the resulting lat. is 39° 16' 28" N.

Subdivisions of T. 18 S. R. 7 E

chains	It being impracticable to extend my line N. bet. secs 4 and 5 here
	From cor. of secs. 8-9-16 and 17 I continue
	West. bet. secs. 8 and 17, on auxiliary Base Line
	Over mountainous land
	Ascending in timber
2.75	Top of spur running N. 100 ft. above cor.
	Thence over broken surface to
7.60	Beginning of abrupt descent on slide
11.80	Enter rolling surface 160 ft. below spur
32.75	Dry wash drains N. 20° E in ravine 110 ft. deep
	Ascending abruptly to
39.10	Top of Spur running N. 180 ft. above wash
	Descending gradually over broken bench
40.00	A stationary gray sandstone bowlder 5 x 4 x 3 ft. above ground for ¼ sec. cor. I mark with a cross (+) and 1/4 on N.E. face 1 ft. above ground from which
	A cedar tree 10 ins. diam. bears N 3°30' E 35 lks dist. marked 1/4 S 8 BT
	A pinion tree 7 ins. diam. bears S. 49° 0' W. 14 lks. dist. marked 1/4 S 17 BT gradual ascent
60.50	Ascent becomes abrupt over large bowlders. course S.E. and N.W.
74.00	Timber becomes scattering trees, and ground rocky
80.00	Set a red sandstone 24 x 9 x 5 ins. 18 ins. in the ground for cor. of secs. 7-8-17 and 18 marked with 5 notches on E. and 4 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	This cor. stands 300 ft. above the ¼ sec. cor. on steep E. slope
	Land Mountainous, broken bench and steep slope
	Soil gravely, and clay with large bowlders
	Timber, scrubby cedar and pinion
	Mountainous land 80.00 chs.
	September 29, 1909

	Sept. 30, 1909 At 8h 40m, a.m., l.m.t. I set off 37° 15' 30" N. on the lat. arc 2° 42' S. on the decl. arc and determine a true meridian with the solar at the cor of secs. 7-8-17 and 18 thence I run
	N 0° 01' W. bet. secs. 7 and 8
	Over mountainous land
	Descending along broken steep E. slope
7.50	Ravine 60 ft. deep drains N E
32.00	Wash in hollow 80 ft. deep drains E.

Chains	
	Descent becomes abrupt. in timber
40.00	Set a sandstone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A cedar tree 9 ins. diam. bears S 78° 0' W. 10 lks. dist. marked 1/4 S. 7 B T
	A cedar tree 10 ins. diam. bears N. 60° 5' E. 7 lks dist. marked 1/4 S. 8 B T
49.00	Descent becomes gradual
50.50	Leave timber bears E. and W
58.00	Enter heavily timbered land bears E and W. Leave Mountainous land
60.30	Cottonwood creek 50 lks wide in shallow channel 150 lks. wide, flows E. in bottom of canyon 500 ft. below sec cor.
61.80	Begin gradual ascent in dense thorny undergrowth and timber
62.60	Leave undergrowth and timber bears E and W.
	Enter Cultivated land of J W Humphrey; (field extends about 4 chs. E. of line to fence)
66.32	Fence bears E. and W.
74.48	Fence bears E and W.; Leave cultivated land
75.25	County from Castle Dale to coal mines and San Pete Valley bears E. and W.
76.00	Begin abrupt ascent. - Enter Mountainous land
80.00	Set a sandstone 18 x 10 x 5 ins. 12 ins. in the ground for
66.50	Cor. of secs. 5-6-7 and 8 marked with 5 notches on S.
13.50	and E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
	This cor. stands 100 ft. above creek
	Land Mountainous and creek bottom
	Soil rocky, and gravely loam 2d and 4th rate
	Timber, scrub cedar and pinion; and cottonwood along creek
	Mountainous and heavily timbered land 66.50 chs.
	East on a random line bet. secs. 5 and 8
40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line at cor. of secs. 4-5-8 and 9
	Thence I run
	West on a true line bet. secs 5 and 8
	Over mountainous land
	Ascending abruptly over ledge running N. and S.
0.45	Top of spur ridge projecting S. 20 ft. above cor. Thence
	Over plateau to

Subdivision of T 18 S R 7 E

Chains	
3.50	Begin abrupt descent on talus
9.50	Dry wash drains S. in ravine 130 ft. below spur Ascending abruptly
14.35	Top of sharp spur ridge running S. 225 ft. above wash. - Descending abruptly
20.25	Dry wash in narrow ravine 150 ft. below spur. drains S. - Ascending to
26.24	Top of spur ridge 175 ft. above wash, runs S Descending gradually on break facing S.
32.80	Top of break bears S. 60° W.: Enter timber Enter rolling plateau and gradual descent
40.03	Set a sandstone 18 x 8 x 8 ins. 1½ ins. in the ground for ¼ sec. cor. marked 1/4 on N. face, from which A pinion tree 5 ins. diam bears N 12° 25' E. 27 lks. dist. marked 1/4 S 5 BT A pinion tree 8 ins. diam. bears S 45° 37' E. 20 lks. dist. marked 1/4 S. 8 BT A small log cabin belonging to Dell Peacock and Orson Miles bears S. 27° W. 34.90 chs., this cabin is located within a fence inclosing a narrow strip of cultivated land extending along the creek about 10 chs. above and 30 chs. below the cabin
42.80	Break from plateau bears N. E. and S 60° W Begin abrupt descent
53.50	Enter bottom of hollow 175 ft. below plateau. bears N. 30° E and S 30° W.
56.40	Dry wash drains S. in channel 12 ft. deep Ascending
60.40	Top of spur ridge bears N. and S. 50 ft. above wash Descending
69.25	Wash in hollow 40 ft. deep, drains S. Thence over rolling broken surface to
71.80	Wash in hollow drains S. Ascending on talus. - Leave timber
78.60	Top of spur ridge projecting S 60 ft. above wash Over broken S slope to
80.06	The cor. of secs. 5-6-7 and 8 Land Mountainous Soil clay and large bowlders with gravel, Timber, scrub cedar and pinion Mountainous land 80.06 chs.

Subdivision of T 16 S R 7 E

Chains	
	From this cor. J W Humphreys cabin bears S 57°51' W. 18 chs. – cult. field extends to within about 2 chs of cabin Sept. 30: at this cor I set off 7°45'. S on the decl. arc and at 11h 50m a.m., l.m.t. observe the sun on the meridian; the resulting lat. is 39°16'28" N.
	It being impracticable to extend this survey further north owing to impassable cliffs and escarpments I run
	West. bet. secs. 6 and 7
	Over mountainous land
	Ascending gradually over talus ridges
14.00	Enter timber, course N. and S.; leave ridges
17.10	Dry wash in hollow, drains S
17.46	County road from Castle Valley to Coal mine bears S. 60° E. and N. 60° W.
18.50	Top of slope, spur runs S E
	Descending gradually
28.25	North branch of Cottonwood creek 6 lks. wide flows S. in wash 50 lks wide, in hollow
31.50	Begin abrupt ascent on rocky slope course N 20° E and S. 20° W.
40.00	A stationary sandstone bowlder 7 x 5 x 4 ft. above ground for 1/4 sec. cor. I mark 1/4 and cross (+) on N. E end from which
	A pinion tree 10 ins. diam. bears N 79°30' E 22 lks. dist. marked 1/4 S 6 B.T
	A pinion tree 6 ins. diam. bears S 25°05' W. 24 lks dist. marked 1/4 S 7 B T
	It is impractical to project this line further owing to high precipitous cliffs hence I discontinue here
	Land Mountainous
	Soil clay, gravel and big bowlders 3d rate
	Timber scrub cedar and pinion, mainly scattering
	Mountainous land 40.00 chs
	This cor. stands 360 ft. above the creek
	Cor. of secs. 7-8-17 and 18: It being impossible to extend a line westward from this cor. bet. secs. 7 and 18 by ordinary means, I erect a flag at this cor. and measure a base line north 11.10 chs. where also a flag is placed, whence I make a detour and go to a point on top of impassable cliffs where cor.

Subdivision of T 18 S R 7 E

chains | Of secs. 7-8-17 and 18 bears East; and flag at north end of base line bears ----N.75°14'E; the cor. of secs. 5-6-7 and 8 which can be plainly seen bears N 27°45'E; the distance weld of the sec. cor. is therefor

42.11 Set a sandstone 18 x 8 x 5 ins. 12 ins in the ground for witness cor. to the 1/4 sec cor. marked WC 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable

This cor. stands on edge of precipitous cliffs course N.W. and S.E.; 1550 ft above sec cor.- It is impractical to extend my survey farther.—

Land mountainous

Soil rocky 3d rate

Timber, a few scattering cedar of scrubby growth

Mountainous land 40.00 chs.

September 30, 1909

General Description

The surveyed portions of this township is all mountainous land or broken foot hills and no part of it is suited for cultivation except a narrow interupted strip along Cottonwood Creek, used for raising lucern and other hay; but all is valuable for pasture purposes

The soil is alkaline and poor.-

There are no mines of any kind within the surveyed area neither are there quarries nor other improvements except as indicated, but all of the remaining unsurveyed part of the township is valuable coal lands; two and in places three separate coal seams or beds lying nearly horizontal and a few feet apart. outcrop in the nearly vertical cliffs.—

The timber is of no commercial value being small and suitable for firewood or fencing only

There is no water except the Cottonwood Creek, which is quite a large stream, making possible the settlements of Forestdale and Orangeville.—

There are no settlers within the township nor any habitation fit for occupancy.— Dell Peacock and Orson Miles applicants for survey, have acquired by purchase from a former owner a strip of land in sec. 8 and use it for hay raising but reside elsewhere.- Charles Curtice applicant for survey has land in sec. 14 but does not reside in that neighborhood.- Robert Johnson

cultivates a small portion of sec. 9 in connection with parts of sec. 10 which he rents but does not reside within the township his shanty is not habitable.—

J W Humphrey owns by purchase the cabin and improvements in sec. 7, but has never resided there, nor is the cabin habitable.—

Adjoining settlers are contemplating the reclamation of part of secs. 2 and 3 and have commenced a ditch in sec. 35 T17SR7E for that purpose, but as yet have not made any improvements in this Tp.—

Frederick W Hanson
Compassman

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of subdivision lines of township No. 18 south range No. 7 east S.L.B.&M. showing the respective capacities in which they acted:

Willie Tuttle, Chainman.
Clarence Johnson, Chainman.
Willie Tuttle, Moundman.
E. M. Cox, Moundman.
Clarence Johnson, Axman.
E. M. Cox, Axman.
A. T. Hanson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of township 18 south range 7 east of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Willie Tuttle, Chainman.
Clarence Johnson, Chainman.
E. M. Cox, Moundman.
Willie Tuttle, Moundman.
E. M. Cox, Axman.
Clarence Johnson, Axman.
A. T. Hanson, Flagman.

Subscribed and sworn to before me this 7th day of October, 1909

SEAL

Frederick W. Hanson
Compassman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson

I, Frederick W. Hanson, Compassman for, 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 18th day of May, 1905, I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the Subdivision lines of Towns No. 16 South, Range No. 7 East

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

Frederick W. Hanson
~~United States Deputy Surv~~
Compassman for Andrew P. Han

Subscribed by said Frederick W. Hanson, and sworn to ~~before me~~ D.S.
this 4th day of December, 1909

Thomas Hull
U.S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 1

The foregoing field notes of the survey of the Subdivisional lines of Towns No. 16 South, Range No. 7 East of the Salt Lake Base and Meridian, Ut

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson, D.S. under his contract No. 288, dated May 18, 1905, havin critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor G

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 of

United States Surveyor G

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Filed July 23, 191

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BOOK A-359

R.

M.B.

FIELD NOTES

OF THE SURVEY OF THE

SOUTH AND EAST BOUNDARIES

O F

TOWNSHIP NO. 6 SOUTH, RANGE NO. 5 EAST,

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Andrew P. Hanson

Frederick W. Hanson, Compassman for, *United States Deputy Surv*

Under his Contract No. 289, *dated* May 18, 1

Survey commenced April 29, 1

Survey completed May 5, 1

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high

S Bdy 5-31-36

E Bdy 6-05-96

NAMES AND DUTIES OF ASSISTANTS.

Lewis McGuire,	Chainman.
Frank Curtis	Chainman.
Harry Curtis	Roundman.
Lionel Averett	Roundman.
Harry Curtis	Axman.
Lionel Averett,	Axman.
A.P.Hanson,	Flagman.

BOOK A-359

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lewis McGuire and Frank Curtis 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 South and East bdys. of T. 6 S. R. 5 E. and South bdy. of T. 6 S. R. 6 S. L. B. and M. – Utah

Lewis McGuire, Chainman

Frank Curtis, Chainman

Subscribed and sworn to before me this 29th day of April, 1910

SEAL

Frederick W. Hanson
Compassman

WE, Harry Curtis and Lionel Averett do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of South and East bdys. of T. 6 S. R. 5 E. and South bdy. of T. 6 S. R. 6 S. L. B. and M. – Utah

Harry Curtis, Moundman

Lionel Averett, Moundman

Subscribed and sworn to before me this 29th day of April, 1910

SEAL

Frederick W. Hanson
Compassman

WE, Harry Curtis and Lionel Averett do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of South and East bdys. of T. 6 S. R. 5 E. and South bdy. of T. 6 S. R. 6 S. L. B. and M. – Utah

Harry Curtis, Axman

Lionel Averett, Axman

Subscribed and sworn to before me this 29th day of April, 1910

SEAL

Frederick W. Hanson
Compassman

I, A. P. Hanson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South and East bdys. of T. 6 S. R. 5 E. and South bdy. of T. 6 S. R. 6 S. L. B. and M. – Utah

A P Hanson, Flagman

Subscribed and sworn to before me this 29th day of April, 1910

SEAL

Frederick W. Hanson
Compassman

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	Survey commenced April 29, 1910 and executed with a Gurley Light Mountain Transit 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 verniers of the latitude and declination arcs.
	The instrument was examined, tested on the true meridia at Salt Lake City, found correct, and was approved by the surveyor general for Utah, August 21, 1909.
	I examine the adjustments of the transit, and correct the level and colimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. a p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:
	At the Standard cor. of secs. 35 and 36 on the N. bdy. of T.6 S.R.5 E., at 3h 55m p.m. l.m.t. I set off 40°20'N. on the lat. arc, 14°36'00"N. on the decl. arc, and compare the meridian thus determined with the true meridian established from Polaris Aug. 24 1909 as described in Book "K.", finding I agree wit the same within 1' of arc.
	April 29, 1910.
	April 30: at 7h 10m a.m. l.m.t. I set off 40°20'N. on the lat. arc, 14°38'N. on the decl. arc and compar the meridian thus obtained with the true meridian established by Polaris observation, already descri ed, finding I agree with the same within 1' of arc
	The solar apparatus, by a.m. and p.m. observations, de fines positions for meridians respectively within of arc of the true meridian established by the Pol aris observations, therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 7h 15m a. is N.17°08'W.: the angle thus determine gives the

CHAINS.	
	magnetic declination, 17°08'E.
	At the Standard cor. of T.5 S.Rs.5 and 6 E. as established by me August 24 and described in Book "K", I turn an angle of 90° to the right from S. bdy. of sec. 31 which is a true E. and W. line
	Thence I run
	South on a random line along E. bdy. of T.6 S.R.5 E. setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs. and at 486.21 chs. set a temp. cor. for Tps. 6 and 7 S.Rs. 5 and 6 E. whence I continue my random line as before , West along S. bdy. of T.6 S. R.5 E. and at 431.38 chs. intersect E. bdy. of T.7 S.R.4 E. 25 lks. S. of the cor. of Tps.6 and 7 S. Rs.4 and 5 E. which is a gray sandstone firmly set, marked, and witnessed as described by me in Book "S", whence in accordance with special instructions I run
	East bet. secs. 6 and 31
	Over mountainous land
	Ascending on 32°30' slope in dense undergrowth
9.70	Top of sharp spur ridge, projects N.,300 ft. above cor.
	Descending 32°N. slope to canyon
17.40	Bottom of ravine, drains N.,70 ft. below ridge
	Ascending
20.90	Top of sharp spur ridge, projects N., 50 ft. above ravine; descending; enter timber, bears N. and S.
26.85	Bottom of ravine, 30 ft. deep, drains N.
	Ascending, leave timber, bears N. and S.
31.38	Set a sandstone 18x6x6 ins. 12 ins. in the ground for cor. of secs. 5-6-31 and 32, marked with 1 notch on W. and 5 notches on E. edges; from which
	The face of a perpendicular cliff of limestone 5 ft. high, running N. and S., bears N.54°30'E. 14 lks. dist., marked T.6 S R 5 E S 32 B O and x for point of tie; no other bearing objects available; raise

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	a mound of stones 2 ft. base 1½ ft. high W. of co
	pits impracticable.
	Land, mountainous; steep broken slope facing N. to cr
	Soil; rocky and gravely; 4th rate
	Timber, dense aspen brake, and brush undergrowth
	Mountainous land, 31.38 chs.
	April 30, 1910.
	May 1, I run
	East bet. secs. 5 and 32
	Over mountainous land, through dense undergrowth
	Ascending abruptly on rocky break, bears N. and S.
0.78	Top of break and spur, projecting N.,90 ft, above cor
	Descending gradually along 32° N. slope on side of ca
6.60	Ravine, 100 ft. deep, drains N.
	Thence ascending along abrupt N. slope
21.45	Top of spur ridge, projects abruptly N.E.
	Begin abrupt descent on N.E. slope
35.00	Spur ridge, projects abruptly N.70°E.
	Thence on S.E. slope
40.00	Set a sandstone 18x10x8 ins.,12 ins. in the ground for marked ¼ on N. face ¼ sec. cor.; raise a mound of stones 2 ft. base, 1
	ft. high N. of cor.; pits impracticable.
	This cor. stands on steep S.E. slope, 580 ft. below to
	of spur projecting N.E.
47.00	Head of draw, 60 ft. deep, drains S.E.
52.50	Spur ridge projects S.E. Begin abrupt descent
61.50	Descent becomes more gradual, bears N. and S.
78.85	Old log road, bears N.W. and S.E.
79.90	Dry wash in bottom of hollow, drains S.,600 ft. below
	¼ sec. cor.; ascending 5 ft. to
80.00	Set a sandstone 18x8x7 ins. 12 ins. in the ground for
	cor. of secs. 4-5-32 and 33, marked with 2 notches
	on W. and 4 notches on E. edges; raised a mound 2
	base, 1½ ft. high W. of cor.; pits impracticable.

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	Land, mountainous
	Soil; gravely wash and rocky; 3 rd rate
	Timber, a few pines scattering on W. 30 chs.
	Dense undergrowth
	Mountainous land, 80.00 chs.
	May 1: the sky being overcast during the noon hour I was unable to observe the sun on the meridian.
	East bot. secs. 4 and 33
	Over mountainous land
	Ascending to
1.00	Top of spur ridge, projects S.; descending
2.98	Stream, 2 lks. wide, flows S. in bottom of gulch
3.30	Begin abrupt ascent
4.50	Enter dense undergrowth and aspen brake, bears N. and S.
40.00	Set a sandstone 18x8x7 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears N.30°40'E. 53 lks. dist., marked ¼ S 33 B T
	An aspen tree, 4 ins.diam., bears S.20°30'E. 60 lks. dist., marked ¼ S 4 B T
	May 1: at this ¼ sec. cor. I set off 40°15'N. on the lat. arc, 15°03'00"N. on the decl. arc and at 4h 05m p. m. l.m.t. determine a meridian with the solar
40.40	Dry wash in rocky run, drains N.75°W.
68.40	Leave dense undergrowth and brake, bears N. and S.
76.00	Top of divide ridge, bears N.E. and S.W., 975 ft. above gulch; descending on S.E. slope to
80.00	Set a sandstone 18x13x6 ins., 12 ins. in the ground for cor. of secs. 3-4-33 and 34, marked with 3 notches on E. and W. edges; raise a mound of stones 2 ft. base, 1½ ft. high W. of cor.; pits impracticable.
	This cor. stands on S.E. slope 35 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash, 3rd rate

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	Timber, dense aspen of small size, oak and maple too large in places to be called undergrowth
	Mountainous land, 80.00 chs.
	May 1, 1910.
	May 2: at 7h 10m a.m. l.m.t. I set off 40°15'N. on the lat. arc, 15°15'00"N. on the decl. arc and determin a meridian with the solar at the cor. of secs. 3-4-33 and 34 on S. bdy. of Tp.; thence I run
	East bet. secs. 3 and 34
	Over mountainous land
	Descending abruptly in dense undergrowth
34.05	Bottom of sharp hollow, drains S.,600 ft. below cor. Ascending
40.00	Set a sandstone 18x12x5 ins., 12 ins. in the ground fo ¼ sec. cor., marked ¼ on N. face; raised a mound o stones 2 ft. base, 1½ ft. high N. of cor.;pits im-practicable.
45.80	Top of spur ridge, 125 ft. high, projects S. from divi ridge about 10 chs. N.; descending
53.00	Bottom of hollow, 115 ft. deep, drains S.
	Ascend in aspen brake, bears N. and S.
71.00	Brake changes to dense oak brush
77.00	Top of slope, bears N.E. and S.W., 310 ft. above hollo thence on S. slope; enter timber, bears N. and S.
80.00	Set a sandstone 18x8x6 ins., 12 ins. in the ground for cor. of secs. 2-3-34 and 35, marked with 2 notches on E. and 4 notches on W. edges; from which
	An aspen tree, 4 ins. diam.,bears S.44°30'E. 6 lks. dist., marked T 7 S R 5 E S 2 B T
	An aspen tree, 7 ins.diam., bears S.84°05'W. 19 lks dist., marked T 7 S R 5 E S 3 B T
	An aspen tree, 4 ins.diam., bears N.29°24'W. 34 lks dist., marked T 6 S R 5 E S 34 B T
	An aspen tree, 4 ins.diam., bears N.60°26'E. 10 lks

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	dist., marked T 6 S R 5 E S 35 B T
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, small aspen and a few pines
	Dense oak and maple brush undergrowth
	Mountainous land, 80.00 chs.
	May 2: at this cor. I set off 15°17'00"N. on the decl. arc and at 11h 57m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40°15'N.
	East bet. secs. 2 and 35
	Over mountainous land
	Through timber on gradual S. slope
6.15	Top of spur ridge, projects S. Leave timber, bears N. and S. S. slope becomes abrupt at head of gulch draining S.
11.50	Begin descent along S.E. slope
30.00	Hollow drains S.20°E., 180 ft. below spur
	Ascending
40.00	Set a sandstone 17x9x5 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high N. of cor.
46.60	Top of spur ridge, projects S.20°E. 150 ft. high
	Descending on broken slope
74.75	Stream, 3 lks. wide, flows S.20°E. in bottom of narrow gulch, 425 ft. below spur ridge
	Ascending abruptly in aspen brake
80.00	Set a sandstone 18x8x5 ins. 12 ins. in the ground for cor. of secs. 1-2-35 and 36, marked with 1 notch on E. and 5 notches on W. edges; from which
	An aspen tree, 4 ins.diam., bears N.26°10'E. 13 lks. dist., marked T 6 S R 5 E S 36 B T
	An aspen tree, 4 ins.diam., bears N.35°16'W. 13 lks. dist., marked T 6 S R 5 E S 35 B T
	An aspen tree, 4 ins.diam., bears S.39°50'W. 16 lks. dist., marked T 7 S R 5 E S 2 B T

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	An aspen tree, 4 ins.diam., bears S.55°50'E. 12 lks. dist., marked T 7 S R 5 E S 1 B T
	This cor. stands 100 ft. above stream
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen of small size
	Dense oak and thorn undergrowth
	Mountainous land, 80.00 chs.
	May 2, 1910.
	May 3: I run
	East bet. secs. 1 and 36
	Over mountainous land
	Ascending in dense aspen brake
5.00	Top of spur ridge, projects S.,75 ft. above cor.
	Thence on abrupt descent over broken S.E. slope
40.00	A stationary sandstone 12x12x8 ins. above ground for ¼ sec. cor. I mark ¼ on S. face, N. face being covered raised a mound of stones 2 ft, base, 1½ ft. high N. of cor.; pits impracticable.
	This cor. stands on steep S.E. slope, where a stone set in the ground would not remain long, hence the stationary for cor.
45.40	Stream, 11 lks. wide, flows S.W. in bottom of S. fork of Hobble Creek, locally known as Red Rock canyon; 850 ft. below top of spur
	Begin abrupt ascent over red sandstone breaks
78.25	Top of canyon, bears N. and S., 700 ft. above stream
	Enter timber and begin gradual descent
80.00	Intersect N. bdy. of Tp. 25 lks. N. of temp. Tp. cor. set by me April 30, which I now destroy
	Set a sandstone 17x8x7 ins., 11 ins. in the ground for cor. of Tps.6 and 7 S. Rs. 5 and 6 E., marked 6 S. on N.E., 6 E. on S.E., 7 S. on S.W., and 5 E.on N.W. from which

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	A pine, 12 ins.diam., bears N.66°50'E. 49 lks. dist., marked T 6 S R 6 E S 31 B T
	An aspen tree, 5 ins.diam., bears S.34°55'E. 50 lks. dist., marked T 7 S R 6 E S 6 B T
	An aspen tree, 5 ins.diam., bears S.2°10'W. 18 lks. dist., marked T 7 S R 5 E S 1 B T
	An aspen tree, 4 ins.diam., bears N.74°56'W. 29 lks. dist., amrked T 6 S R 5 E S 36 B T
	Land, mountainous
	Soil; gravely and rocky; 3rd and 4th rates
	Timber, small aspen and a few pine, scattering
	Mountainous land, 80.00 chs.
	May 3: at 10h 0m a.m. l.m.t. I set off 40°15'N. on the lat. arc, 15°34'00"N. on the decl. arc and determine a meridian with the solar at the cor. of Tps. 6 and 7 S. Rs. 5 and 6 E.; thence I run
	North bet. secs. 31 and 36
	Over mountainous land
	Descending gradually in timber
2.30	Break to canyon, bears N.70°W. and S.70°E.
	Begin abrupt descent
16.85	Stream, 2 lks. wide, flows N.75°W. in bottom of narrow canyon 280 ft. below break
	Begin abrupt ascent in dense undergrowth and break
	Leave timber, bears E. and W.
22.00	Spring branch, 1 lk. wide, flows W. in hollow
26.00	Top of spur ridge, projects W., 150 ft. high
	Descending abruptly
40.00	Set a sandstone 17x9x5 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
42.30	Stream, 5 lks. wide, flows W. in bottom of narrow gulch 330 ft. below ridge
	Begin ascent on 27°30' slope

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
55.00	Ascent becomes gradual
61.39	Top of slope and spur ridge projecting S. between two gulches, 400 ft. above stream
	Thence over broken surface, on gradual ascent
80.00	Set a sandstone 18x9x6 ins. 12 ins. in the ground for cor. of secs. 25-30-31 and 36, marked with 1 notch on S. and 5 notches on N. edges; from which
	A pine tree, 12 ins.diam., bears N.20°24'E. 24 lks. dist., marked T 6 S R 6 E S 30 B T
	A pine tree, 5 ins.diam., bears N.38°40'W. 42 lks. dist., marked T 6 S R 5 E S 25 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine of fair size but scattering growth
	Dense oak, aspen, and thorn undergrowth
	Mountainous land, 80.00 chs.
	May 3: at this cor. I set off 15°36'N. on the decl. arc and at 11h 57m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40°15'30"N.
	North bet. secs. 25 and 30
	Over mountainous land
	Ascending gradually on W. slope in timber and undergrowth
40.00	Set a sandstone 17x10x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, from which
	An aspen tree, 4 ins.diam., bears N.78°E. 14 lks. dist., marked ¼ S 30 B T
	An aspen tree, 4 ins.diam., bears N.72°13'W. 24 lks. dist., marked ¼ S 25 B T
	Descend gradually to
45.48	Dry wash in bottom of narrow gulch, course S.20°W.
	Begin ascent on S.E. slope
64.00	Stream, 1 lk. wide, flows S.75°E.

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.

from spring 2 chs. W. of line

80.00 Set a sandstone 18x10x8 ins., 12 ins. in the ground for cor. of secs. 19-24-25 and 30, marked with 2 notches on S. and 4 notches on N. edges; from which

An aspen tree, 4 ins.diam., bears N.63°30'W. 6 lks. dist., marked T 6 S R 5 E S 24 B T

An aspen tree, 5 ins.diam., bears N.80°E. 31 lks. dist., marked T 6 S R 6 E S 19 B T

An aspen tree, 4 ins.diam., bears S.46°30'E. 4 lks. dist., marked T 6 S R 6 E S 30 B T

An aspen tree, 4 ins.diam., bears S.44°10'W. 9 lks. dist., marked T 6 S R 5 E S 25 B T

This cor. stands 320 ft. above gulch

Land, mountainous

Soil; gravely wash; 3rd rate

Timber, scattering pine on E. side of gulch, on W. side dense aspen of small size mainly

Dense undergrowth

Mountainous land, 80.00 chs.

May 3, 1910.

May 4: at 7h 10m a.m. l.m.t. I set off 40°16'30"N. on the lat. arc, 15°51'W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 19-24-25 and 30 on E. bdy. of Tp.; thence I run

North bet. secs. 19 and 24

Over mountainous land

Ascending along broken S.E. slope in aspen timber

40.00 Set a sandstone 18x13x9 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which

An aspen tree, 5 ins.diam., bears S.86°58'E. 38 lks. dist., marked ¼ S 19 B T

An aspen tree, 5 ins.diam., bears S.85°50'W. 25 lks. dist., marked ¼ S 24 B T

57.00 Heavy timber, bears E. and W.

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
62.80	Old Government road from Springville to the reservation, bears E. and W. along divide spur ridge projecting W. from Strawberry Peak
	Ascending gradually to
66.25	Top of spur ridge; begin gradual descent
	Enter pine timber, bears E. and W.
75.00	Descent becomes abrupt on N.E. slope
80.00	Set a sandstone 16x7x6 ins., 12 ins. in the ground for cor. of secs. 13-18-19 and 24, marked with 3 notches on N. and S. edges; from which
	A pine tree, 5 ins.diam., bears S.10°25'E. 74 lks. dist., marked T 6 S R 6 E S 19 B T
	A pine tree, 8 ins.diam., bears S.87°57'W.30 lks. dist., marked T 6 S R 5 E S 24 B T
	An aspen tree, 5 ins.diam., bears N.56°30'W.56 lks. dist., marked T 6 S R 5 E S 13 B T
	An aspen tree, 4 ins.diam., bears N.36°33'E.40 lks. dist., marked T 6 S R 6 E S 18 B T
	Strawberry Peak bears S.59°E.
	This cor. stands 85 ft. below top of spur
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine of fair size and growth
	Mountainous land, 80.00 chs.
	North bet. secs. 13 and 18
	Over mountainous land
	Descending along N.E. slope in timber
40.00	Set a sandstone 18x12x4 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears S.67°[illegible]'E. 34 lks. dist., marked ¼ S 13 B T
	An aspen tree, 5 ins.diam., bears N.[illegible]°[illegible]'E. 50 lks. dist., marked ¼ S 18 B T
76.87	Stream, 4 lks. wide, flows N.[illegible]°W. in bottom of gulch,

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	530 ft. below sec. cor.
	Ascending abruptly
79.80	Top of spur ridge, projects N.60°W., 75 ft. above stream
80.00	Set a sandstone 17x9x8 ins., 11 ins. in the ground for cor. of secs. 7-12-13 and 18, marked with 4 notches on S. and 3 notches on N. edges; from which
	An aspen tree, 4 ins.diam., bears S.39°50'W. 5 lks. dist., marked T 6 S R 5 E S 13 B T
	An aspen tree, 4 ins.diam., bears N.13°18'W. 10 lks. dist., marked T 6 S R 5 E S 12 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, W. of cor.; pits impracticable.
	Land, mountainous
	Soil; gravely; 3rd rate
	Timber, aspen and pine partly burnt
	Mountainous land, 80.00 chs.
	May 4: at this cor. I set off 15°53'00"N. on the decl.arc and at 11h 57m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40°18'N.
	North bet. secs. 7 and 12
	Over mountainous and heavily timbered land
	Descending gradually along broken W. slope, in undergrowth
40.00	Set a sandstone 16x8x6 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears N.26°20'W. 30 lks. dist., marked ¼ S 12 B T
	An aspen tree 4 ins. diam. bears S.82°28'E. 7 lks. dist., marked ¼ S 7 B T
58.25	Begin abrupt descent over rocky break, bears S.60°W. and N.60°E.
62.50	Bottom of break, 150 ft. below top; enter bottom of gulch
65.75	Dry wash in bottom of gulch, drains W.
66.00	Begin abrupt ascent

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
75.70	Top of spur ridge projecting W., 100 ft. high
	Descending
80.00	Set a sandstone 16x8x7 ins., 10 ins. in the ground for cor. of secs. 1-6-7 and 12, marked with 5 notches on S. and 1 notch on N. edges; from which
	An aspen tree, 6 ins.diam., bears S.63°W. 8 lks. dist., marked T 6 S R 5 E S 12 B T
	An aspen tree, 5 ins.diam., bears N.76°40'W. 26 lks. dist., marked T 6 S R 5 E S 1 B T
	No other trees within limit; raise a mound of stones 3 ft. base, 1½ ft. high, W. of cor.
	This cor. stands 50 ft. below spur
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense aspen of small size and a few scattering pines
	Dense undergrowth of willow and thorn
	Mountainous and heavily timbered land, 80.00 chs.
	May 4, 1910.
	May 5: at 7h 27m a.m. l.m.t. I set off 40°19'N. on the lat. arc, 16°08'00"N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 1-6-7 and 12; thence I run
	North bet. secs. 1 and 6
	Over mountainous and heavily timbered land
	Descending gradually along W. slope, in undergrowth
6.90	Dry wash, drains W. in bottom of gulch, 70 ft. below cor
	Ascending abruptly
18.00	Top of spur ridge projecting W., 125 ft. above wash in gulch
	Descending gradually
40.00	Set a sandstone 18x10x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears S.89°25'W. 40 lks.

SOUTH AND EAST BOUNDARIES OF T.6 S.R.5 E.

CHAINS.	
	dist., marked 1/4 S 1 B T
	An aspen tree 5 ins. diam. bears S. 40°45'E. 16 lks. dist. marked 1/4 S. 6 B T.
47.25	Bottom of hollow and dry wash draining S.W. 140 ft. below spur.
	Thence ascending along side of wash
51.50	Top of spur, 40 ft. high, projects E.; descend
61.30	Same wash, drains S.E.
65.35	Same wash, drains S.W.; ascend
69.00	Top of spur ridge, projects S.W., 30 ft. high
	Descend
70.64	Dry wash, drains S.30°W. in hollow
	Ascending to
85.96	The Standard cor. of Tp. 5 S. Rs.5 and 6 E., which I change to a cor. for 4 townships as follows, viz; mark 5 S. on N.E., 6 E. on S.E., 6 S. on S.W., and 5 E. on N.W. faces, and 6 notches on each edge; from which
	An aspen tree, 4 ins. diam., bears S.53°55'W. 12 lks. dist., marked T 6 S R 5 E S 1 B T
	An aspen tree, 4 ins. diam., bears S.13°35'E. 16 lks, dist., marked T 6 S R 6 E S 6 B T
	This cor. stands 60 ft. above hollow
	Land, Mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense aspen of small size and a few pine scattering
	Dense undergrowth
	Mountainous and heavily timbered land, 85.96 chs.
	May 5, 1910.

BOUNDARIES OF T. 6 S., R. 5 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Line Designated	True Bearing	Dist.	Latitudes, N.	Latitudes, S.	Departures. E.	Departures. W.
		chs.	chs.	chs.	chs.	chs.
1st.St.Par.S.	West	272.38	.....	.....	.....	272.38
1st St.Par.S.	N.89° 53'W.	78.87	0.16	.....	.....	78.87
1st St.Par.S.	N.89°43'W.	80.00	0.40	.....	.....	80.00
West Boundary	South	486.44	.....	486.44	.....	.....
South Boundary	East	431.38	.....	.....	431.38	.....
East Boundary	North	485.96	485.96	.....	.....	.....
Convergency						0.61
Totals			486.52	486.44	431.38	431.86
			486.44			431.38
Error in lat.and dep.			0.08			0.48

GENERAL DESCRIPTION.

For general description of this township see notes of subdivision of this township.

Frederick W. Hanson

Compassman.

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Page

BOOK A-359

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 "T", *Chainman.*

T. C S., R. G E. ....., *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

BOOK A-359

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 "T" T. 6 S., R. 6 E.

_____ 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, February 4, 1910

The foregoing field notes of the survey of the South and East Boundaries of Township No. 6 South, Range No. 5 East of the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, _____, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General

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

_____
United States Surveyor General

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Filed July 23, 1910.

4—679.

BOOK A-359

S.

X.3.B.
M.S.B.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

O F

TOWNSHIP NO. 6 SOUTH,

RANGE NO.5 EAST,

Of the SALT LAKE BASE AND *Meridian,*

U T A H,

AS SURVEYED BY

Frederick W.Hanson, Compassman

for Andrew P.Hanson, *United States Deputy Survey*

Under his Contract No. 289, *dated* May 18, 19

Survey commenced May 9, 19

Survey completed May 28, 19

6—151

	Origin	Inv	Survey
Petr. S. Bdy. m 4 E		40-08	
" W Bdy.		1-06-44	6-56
Subs.	57-27-66		7-74

NAMES AND DUTIES OF ASSISTANTS.

Lewis McGuire,	Chainman.
Frank Curtis,	Chainman.
Harry Curtis,	Moundman.
Lionel Averett,	Moundman.
Harry Curtis,	Axman.
Lionel Averett,	Axman.
A.P.Hanson,	Flagman.

BOOK A-359

INDEX DIAGRAM.

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

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

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Lewis McGuire and Frank Curtis do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surve Subdivision Lines of T. 6 S. Rs. 5 and 6 E. S. L. B. and M.

Lewis McGuire, Chainm
Frank Curtis, Chainm

Subscribed and sworn to before me this 9th day of May, 1910

SEAL

Frederick W. Hanso
Compassman

WE, Harry Curtis and Lionel Averett do solemnly swear that we will well and truly perform the duties of moundmen in the establishm of corners, according to the instructions given us, to the best of our skill and ability, in the surve Subdivision Lines of T. 6 S. Rs. 5 and 6 E. S. L. B. and M.

Harry Curtis, Moundm
Lionel Averett, Moundm

Subscribed and sworn to before me this 9th day of May, 1910

SEAL

Frederick W. Hanson
Compassman

WE, Lionel Averett and Harry Curtis do solemnly swear that we will well and truly perform the duties of axmen in the establishment of cor and other duties, according to instructions given us, to the best of our skill and ability, in the surve Subdivision Lines of T. 6 S. Rs. 5 and 6 E. S. L. B. and M.

Lionel Averett, Axm
Harry Curtis, Axm

Subscribed and sworn to before me this 9th day of May, 1910

SEAL

Frederick W. Hanso
Compassman

I, A. P. Hanson, do solemnly swear that I will well and tr perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of Subdivision Lines of T. 6 S. Rs. 5 and 6 E. S. L. B. and M.

A P Hanson, Flagm

Subscribed and sworn to before me this 9th day of May, 1910

SEAL

Frederick W. Hanso
Compassman

6—151

RESURVEY OF S. BDY. OF T.6 S. R.4 E.

CHAINS.	
	Survey commenced April 30, 1910 and executed with a Gu
	ley Light Mountain transit with solar attachment.
	NOTE:- For further description of transit and test of.
	adjustments see field notes of survey of S. and E.
	bdys. of T.6 S. R.5 E., completed this day, Book"R"
	Having run west on a random line along S. bdy. of T.6 S
	R.5 E. and being unable to locate the cor. of Tps.
	6 and 7 S. Rs. 4 and 5 E. by a diligent and persist
	ent search, I continue my line as before, west alon
	the S. bdy. of sec. 36 T.6 S. R.4 E.; at 471.38 chs
	the ¼ sec. cor. bears N. 25 lks.dist., being a sand
	stone 18x10x5 ins., properly marked, lying on top o
	ground but in its original place according to bear-
	ing trees found standing. The marking on the stone
	being partly obliterated I recut the old marking
	and reset stone 12 ins. in the ground for ¼ sec. co
	marked ¼ on N. face; from which
	An original bearing tree, an aspen tree, 5 ins.diam.
	bears N.70°E. 18 lks.dist., markings indistinct,
	hence I mark ¼ S 36 B.T
	An original bearing tree, an aspen tree, 6 ins.diam.
	bears S.60°W. 8 lks.dist., distinctly marked ¼ S1 B
	Thence I make the following resurvey
	East bet. E. ½ of secs. 1 and 36
	Over mountainous land
	Descending in timber to
3.45	Stream, 2 lks.wide, flows N. in hollow 30 ft. below cor
	Ascend
4.60	Leave timber, bears N. and S. and begin gradual ascent
	on even slope, once cultivated but now overgrown
	with weeds and brush
	Enter dense undergrowth
15.00	Enter dense oak brush and aspen brake, bears N. and S.
17.50	Begin abrupt ascent, bears N. and S.

RESURVEY OF S. BDY. OF T.6 S. R.4 E.

CHAINS.	
28.40	Top of spur ridge, projects N.30°W., 200 ft. high
	Descending on N.E. slope to
30.00	Head of swale draining abruptly N.30°W. 50 ft. below spur; ascend
40.00	The cor. of Tps. 6 and 7 S. Rs. 4 and 5 E. as found; a gray sandstone firmly set, marked, and witnessed as described by the surveyor general, but covered over with slide rock and soil and overgrowth of weeds and brush, mound scattered. I clean away debris and properly expose cor., rebuild mound of stones 3 ft. base, 1½ ft. high, S. of cor. Pits impracticable.
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, aspen of small size
	Dense oak and thorn undergrowth
	Mountainous land, 40.00 chs,

April 30, 1910

Frederick W. Hanson

Compassman.

RESURVEY OF EAST BOUNDARY OF T.6 S. R.4 E.

CHAINS.	
	May 8: at 7h 32m a.m., l.m.t. I set off 40°19'N. on the lat. arc, 16°59'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 1-6-7 and 12, on W. bdy. of T.6 S. R.5 E., which is a sandstone 16x12x8 ins. set 4 ins in the ground, marked with 5 notches on S. and 1 notch on N. edges, and a few stones scattered around. I reset stone 10 ins. in the ground, marked with 5 notches on S. and 1 notch on N. edges; raise a mound of stones 2 ft. base 1½ ft. high, W. of cor.; pits impracticable.
	Thence I run
	North bet. secs. 1 and 6
	Over mountainous land and through dense timber
	Descending abruptly
18.40	Botton of gulch, drains N.75°E., 250 ft. below cor.
	Begin abrupt ascent
35.20	Top of spur ridge, projects N.20°E., 290 ft. above gulch
	Begin descent on N.W. slope
40.00	The original ¼ sec. cor.; a quartzite stone 20x12x7 ins. set 4 ins. in the ground and marked ¼ on W. face; bearing trees as described by the surveyor general
	I reset stone 15 ins. in the ground for ¼ sec. cor., marked ¼ on W. face.
82.51	The original closing cor. for T.6 S. Rs.4 and 5 E.; a sandstone firmly set and properly marked, mound of stones S. of cor. and two bearing trees properly marked, all as described by the surveyor general. As the cor. is so evidently out of its proper place and not serving the purpose for which it was intended, I destroy it.
	Thence continuing north as before
83.00	Drag road, bears N.30°E. and S.30°W.
83.16	Dry wash in bottom of gulch, drains N. 30°E.
	Begin abrupt ascent in slide rock; leave timber, bears N. 30°E. and S.30°W.

RESURVEY OF EAST BOUNDARY OF T.6 S. R.4 E.

CHAINS.	
86.44	Intersect the 1st St. Par. South 33.40 chs. W. of the Standard cor. of secs. 5 and 6 and 6.56 chs. E. of the Standard ¼ sec. cor.
	Set a sandstone 18x7x6 ins.,12 ins. in the ground for closing cor. of T.6 S. Rs. 4 and 5 E., marked C C 6 S on S., 5 E. on E., and 4 E on W. faces, with 6 grooves on S., E., and W. faces; raised a mound of stone 2 ft. base, 1½ ft. high, S. of cor.; pits impracticable.
	This cor. stands 35 ft. above wash
	Land, mountainous
	Soil; gravely wash and boulders
	Timber, aspen of dense growth and small size and a few scattering pines
	Mountainous and heavily timbered land, 86.44 chs.
	I return to the meridian established August 24, 1909 from Polaris: at 3h 30m p.m.,l.m.t., I set off 17°03' N. on the decl. arc, and test the adjustment of my solar, finding it gives the same meridian as before, and adjustments correct.
	May 8, 1910.
	Frederick W. Hanson
	Compassman.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Survey commenced May 9, 1910 and executed with a Gurley Light Mountain Transit with solar attachment.
	NOTE:- For further description of instrument and test of adjustments reference is hereby made to field notes of resurvey of 1st St. Par. S. through R.5 E. and W. bdy. of this Tp., . Being confident that the instrument still remained in proper adjustment I deem it unnecessary to report the test at the time.
	At the cor. of secs. 1-2-35 and 36 on S. bdy. of T.6 S. R.5 E., heretofore described, at 7h 10m a.m., 1 m t I set off 40°15'N. on the lat. arc, 17°14'N. on the decl. arc and determine a meridian with the solar
	Thence I run
	N.0°01'W. bet. secs. 35 and 36
	Over mountainous land
	Ascending abruptly in dense aspen brake and undergrowth
9.90	Top of slope and sharp rocky spur projecting W., 160 ft. above cor.
	Thence along steep W. slope
36.00	Bottom of hollow drains S.35°W.
	Begin abrupt ascent
40.00	Set a sandstone 16x9x8 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears S.72°15'E. 24 lks. dist., marked ¼ S 36 B T
	An aspen tree, 4 ins.diam., bears S.87°40'W. 26 lks. dist., marked ¼ S 35 B T
45.75	Ascent becomes gradual along W. slope, 300 ft. above hollow
76.00	Enter timber, bears N.E. and S.W.
80.00	Set a sandstone 16x9x7 ins., 10 ins. in the ground for cor. of secs. 25-26-35 and 36, marked with 1 notch on S. and E. edges; from which
	An aspen tree, 9 ins.diam., bears N.13°24'E. 36 lks.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked T 6 S R 5 E S 25 B T
	An aspen tree, 4 ins.diam., bears N.26°30'W. 27 lks. dist., marked T 6 S R 5 E S 26 B T
	An aspen tree, 4 ins.diam., bears S.66°45'W. 38 lks. dist., marked T 6 S R 5 E S 35 B T
	An aspen tree, 7 ins.diam., bears S.33°13'E. 100 lks. dist., marked T 6 S R 5 E S 36 B T
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, aspen and a few scattering pine; dense brake and brush
	Mountainous land, 80.00 chs.
	East on a random line bet. secs. 25 and 36
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. at cor. of secs. 25-30-31 and 36, heretofore described
	Thence I run
	West on a true line bet. secs. 25 and 36
	Over mountainous and heavily timbered land
0.75	Desc. abruptly
5.13	Dry wash, drains S. in bottom of gulch, 140 ft. below cor.; asc. abruptly
9.35	Top of slope, bears N. and S., 140 ft. above wash
	Thence over broken flat
17.60	Stream, 3 lks. wide, flows S. in hollow 50 ft. deep
34.00	Begin descent, bears N. and S.
37.05	Stream, 5 lks. wide flows S. in hollow 75 ft. deep
	Begin abrupt ascent
40.00	Set a sandstone 16x8x6 ins.,10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 12 ins.diam., bears S.4°57'E. 13 lks. dist., marked ¼ S 36 B T
	An aspen tree, 5 ins.diam., bears N.11°40'E. 37 lks. dist., marked ¼ S 25 B T
72.00	Top of slope and ridge, bears N. and S., 500 ft. above

CHAINS.	
	stream; thence on gradual descent to
80.00	The cor. of secs. 25-26-35 and 36
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and scattering pine
	Mountainous and heavily timbered land, 80.00 chs.
	May 9: at this cor. I set off 17°17'N. on the decl. arc and at 11h 56m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°16'N.
	N.0°01' W. bet. secs. 25 and 26
	Over mountainous and heavily timbered land
	Ascending gradually
4.00	Top of divide ridge, bears N.E. and S.W.
	Thence along steep W. slope
36.60	Spur ridge, projects N.W.; thence descending abruptly on N. slope
40.00	Set a sandstone 16x6x6 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears S.60°05'E. 21 lks. dist., marked ¼ S 25 B T
	An aspen tree, 4 ins.diam., bears N.82°35'W. 7 lks. dist., marked ¼ S 26 B T
55.05	Stream, 2 lks. wide, flows N.25°W. in hollow
	Thence along N.W. slope to
80.00	Set a sandstone 18x8x5 ins., 12 ins. in the ground for cor. of secs. 23-24-25 and 26, marked 2 notches on S. and 1 notch on E. edges; from which
	An aspen tree, 9 ins.diam., bears N.52°36'E. 12 lks. dist., marked T 6 S R 5 E S 24 B T
	An aspen tree, 4 ins.diam., bears S.86°34'E. 39 lks. dist., marked T 6 S R 5 E S 25 B T
	A black balsam tree, 36 ins.diam., bears S.28°10'W. 23 lks. dist., marked T 6 S R 5 E S 26 B T
	An aspen tree, 5 ins.diam., bears N.28°15'W. 35 lks.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked T 6 S R 5 E S 23 B T
	This cor. stands 400 ft. below top of spur
	Land, mountainous
	Soil; gravely wash and bowlders; 2nd and 3rd rate
	Timber, aspen of dense growth and big pine trees scattering
	Mountainous and heavily timbered land, 80.00 chs.
	May 9, 1910.
	May 10: at 7h 05m a.m., l m't, I set off 40°16'30"N. on the lat. arc, 17°30'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
	East on a random line bet. secs. 24 and 25
40.00	Set temp. ¼ sec.cor.
80.00	Intersect E.bdy. of Tp. 7 lks. N.of cor. of secs. 19-24-25 and 30, heretofore described
	Thence I run
	N.89°57'W. on a true line bet. secs. 24 and 25
	Over mountainous and heavily timbered land
	Ascending abruptly
6.50	Top of slope, bears N. and S., 175 ft. above cor.
	Descending to
6.90	Hollow, 10 ft. deep, drains N.
	Ascending
14.50	Top of round knoll, 60 ft. above hollow
	Descending
20.00	Leave timber, bears S.10°W. and N.10°E.; enter shallow gulch
21.53	Stream, 3 lks. wide, flows S.10°W. in bottom of open gulch, 50 ft. below knoll
22.25	Enter timber and begin ascent, bears N.10°E. and S.10°W.
25.00	Top of spur ridge, projects S.10°W., 20 ft. high
	Descending
27.60	Leave timber, bears S.10°W. and N.10°E.
28.60	Head of hollow, drains S.; asc.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
30.50	Enter timber and dense undergrowth and begin abrupt ascent, bears N. and S.
40.00	Set a sandstone 16x13x8 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears S.54°03'W. 7 lks. dist., marked ¼ S 25 B T
	An aspen tree, 4 ins.diam., bears N.79°42'E. 14 lks. dist., marked ¼ S 24 B T
40.50	Top of divide ridge, bears N.E. and S.W., 200 ft. above hollow; begin descent
80.00	The cor. of secs. 23-24-25 and 26
	This cor. stands 400 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, small aspen of dense growth and a few large pine
	Dense wild cherry and willow undergrowth
	Mountainous and heavily timbered land, 80.00 chs.
	N.0°01'W. bet. secs. 23 and 24
	Over mountainous and heavily timbered land
	Descending along N.W. slope
40.00	Set a sandstone 18x12x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A mountain willow tree, 4 ins.diam., bears S.85°26'E. 26 lks. dist., marked ¼ S 24 B T
	A mountain willow tree, 4 ins.diam., bears N.23°10'W. 18 lks.dist., marked ¼ S 23 B T
	May 10: at this cor. I set off 17°33'N. on the decl. arc and at 11h 56m, a.m., l m t, observe the sun on the meridian; the resulting lat, is 40°17'N.
51.75	Head of stream, drains S.60°W. in bottom of Hobble Creek Canyon, 480 ft. below sec. cor.
	Ascending abruptly
67.00	Old Government road from Springville to Indian Reservation, bears S.W. and N.E.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
72.00	Top of divide ridge, bears E. and W., 400 ft. above canyon
	Descending abruptly to
80.00	Set a sandstone 16x10x6 ins., 10 ins. in the ground for cor. of secs. 13-14-23 and 24, marked with 3 notches on S. and 1 notch on E. edges; from which
	An aspen tree, 8 ins.diam., bears S.20°10'E. 17 lks. dist., marked T 6 S R 5 E S 24 B T
	An aspen tree, 6 ins.diam., bears N.56°05'E. 18 lks. dist., marked T 6 S R 5 E S 13 B T
	An aspen tree, 12 ins.diam., bears N.86°24'W. 46 lks. dist., marked T 6 S R 5 E S 14 B T
	An aspen tree, 10 ins.diam., bears S.40°20'W. 42 lks. dist., marked T 6 S R 5 E S 23 B T
	This cor. stands 115 ft. below ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few large pine scattering
	Mountainous and heavily timbered land, 80.00 chs.
	S.89°57'E. on a random line bet. secs. 13 and 24
40.00	Set temp. ¼ sec. cor.
80.00	Intersect E. bdy. of Tp. 12 lks. S. of cor. of secs. 13-18-19 and 24; heretofore described
	Thence I run
	S.89°58'W. on a true line bet. secs. 13 and 24
	Over mountainous and heavily timbered land
	Ascending
3.50	Top of spur ridge, projects N.30°W., 30 ft. above cor.
	Thence on gradual descent
29.00	Descent becomes abrupt, bears N. and S.
39.70	Enter level bench, bears N.30°W. and S.30°E., 300 ft. below spur
40.03	Set a sandstone 18x10x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	An aspen tree, 4 ins.diam., bears S.81°51'E. 46 lks. dist., marked ¼ S 24 B T
	A pine tree, 4 ins.diam., bears N.8°20'E. 26 lks. dist., marked ¼ S 13 B T
43.50	Begin descent, bears N.30°W. and S.30°E.
48.00	Descent becomes abrupt, bears N.30°W. and S.30°E.
55.40	Stream, 4 lks. wide, flows N.30°W. in narrow gulch, 125 ft. below bench
	Ascending
68.00	Top of spur ridge, 90 ft. high, projects N.
	Descending to
77.00	Bottom of hollow, 60 ft. deep, drains N.
	Begin ascent
80.06	The cor. of secs. 13-14-23 and 24
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, aspen and a few scattering pine
	Mountainous and heavily timbered land, 80.06 chs.
	May 10, 1910.
	May 11: at 7h 35m a.m., 1 m t, I set off 40°17'22"N. on the lat. arc, 17°46'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 13-14-23 and 24
	Thence I run
	N.0°01'W. bet. secs. 13 and 14
	Over mountainous and heavily timbered land
	Descending through undergrowth
25.42	Stream, 10 lks. wide, flows N.W. in gulch, 180 ft. below cor.
	Ascending
32.00	Top of spur ridge, projects N.W.; 60 ft. high
	Descending on N.W. slope
40.00	Set a sandstone 18x6x5 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pine tree, 7 ins.diam., bears N.36°03'W. 12 lks.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked ¼ S 14 B T
	An aspen tree, 6 ins.diam., bears S.85°30'E. 24 lks. dist., marked ¼ S 13 B T
41.76	Spring branch, 3 lks. wide, flows N.W. in hollow 90 ft. below spur
	Ascending gradually
48.00	Top of spur ridge, projects N.W.
	Descending to
49.41	Cross W. edge of pond about 3 chs. diam.
50.50	Ascend
51.25	Spur ridge, projects W.
	Begin gradual descent
57.00	Descent becomes abrupt, bears E. and W.
59.50	Bottom of hollow, 60 ft. deep, drains N.70°W.
	Ascending gradually on broken slope
66.10	Spring in hollow, drains W.
70.00	Begin abrupt ascent on S.W. slope
80.00	Set a sandstone 18x10x6 ins., 12 ins. in the ground for cor. of secs. 11-12-13 and 14, marked with 4 notches on S. and 1 notch on E. edges; from which
	An aspen tree, 4 ins.diam., bears N.87°25'W. 4 lks. dist., marked T 6 S R 5 E S 11 B T
	A maple tree, 4 ins.diam., bears S.18°05'W. 13 lks. dist., marked T 6 S R 5 E S 14 B T
	A wild cherry tree, 4 ins.diam., bears S.62°55'E. 21 lks. dist., marked T 6 S R 5 E S 13 B T
	An aspen tree, 4 ins. diam., bears N.34°45'E. 9 lks. dist., marked T 6 S R 5 E S 12 B T
	This cor. stands 160 ft. above hollow
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen, mainly small and of dense growth, and a few scattering pines; dense tangle of undergrowth
	Mountainous and heavily timbered land, 80.00 chs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	N.89°58'E. on a random line bet. secs. 12 and 13
40.00	Set temp. ¼ sec. cor.
79.96	Intersect E. bdy. of Tp. at cor. of secs. 7-12-13 and 18 heretofore described
	Thence I run
	S,89°58'W. on a true line bet. secs. 12 and 13
	Over mountainous and heavily timbered land
	Descending along S.W. slope to
9.90	Stream, 4 lks. wide, flows N.60°W. in hollow 135 ft. below cor.
	Ascending abruptly
25.00	Top of ridge, bears N.W. and S.E., 210 ft. above hollow
	Desc.
39.98	Set a sandstone 17x8x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 5 ins.diam., bears N.20°30'W. 59 lks. dist., marked ¼ S 12 B T
	An aspen tree, 5 ins.diam., bears S.19°03'W.31 lks. dist., marked ¼ S 13 B T
46.20	Stream, 8 lks.wide, flows N.30°W. in bottom of gulch, 400 ft. below ridge
	Ascending; timber mostly pine on this slope
72.16	Top of ridge, bears N.15°W. and S.15°E., 310 ft. above stream
	Descending abruptly
76.00	Leave pine, bears N. and S.
79.96	The cor. of secs. 11-12-13 and 14
	This cor. stands 100 ft. below ridge
	Land, mountainous
	Soil; gravely wsh; 2nd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 79.96 chs
	May 11: at this cor. I set off 17°49'N. on the decl. arc and at 11h 56m a.m., I m t, observe the sun on the meridian; the resulting lat. is 40°18'N.

SUBDIVISION OF T.6 S.R.5 E.

CHAINS.	
	N.0°01'W. bet. secs. 11 and 12
	Over mountainous and heavily timbered land, in undergrowth
	Ascending along abrupt S.W. slope
5.00	Top of spur ridge, projects W., 40 ft. above cor.
	Thence on gradual descent on abrupt W. slope
29.00	Break to canyon, bears N.65°W. and S.65°E.
	Desc, abruptly on N. slope
40.00	Set a sandstone 17x11x5 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears S.70°00'W. 39 lks. dist., marked ¼ S 11 B T
	An aspen tree, 5 ins.diam., bears N.59°26'E. 14 lks. dist., marked ¼ S 12 B T
44.93	Stream, 10 lks. wide, flows N.65°W. in bottom of narrow rocky canyon, 480 ft. below break
45.30	Old drag road, runs parallel to stream
	Begin abrupt ascent
	Leave timber, bears N.65°W. and S.65°E.
80.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for cor. of secs. 1-2-11 and 12, marked with 5 notches on S. and 1 notch on E. edges; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor.
	This cor. stands 525 ft. above stream
	Land, mountainous
	Soil; gravely wash and bowlders; 2nd and 3rd rates
	Timber, aspen and a few pine
	Dense tangle of undergrowth
	Mountainous and heavily timbered land, 80.00 chs.
	May 11, 1910.
	May 12: at 7h 26m a.m., l m t, I set off 40°19'N. on the lat. arc, 18°02'W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 1-2-11 and 12; thence I run
	N.89°58'E. on a random line bet. secs. 1 and 12

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. bdy. of Tp. 7 lks. W. of cor. of secs. 1-6-7 and 12, heretofore described
	Thence I run
	N.89°59'W. on a true line bet. secs. 1 and 12
	Over mountainous and heavily timbered land
	Descending gradually on N.W. slope
30.00	Top of ridge, bears S.75°E. and S.75°W., 200 ft. above cor.
	Desc. on N.W. slope to
40.00	Set a sandstone 18x15x4 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	A pine tree, 9 ins.diam., bears S.64°30'E. 10 lks. dist., marked ¼ S 12 B T
	A pine tree, 4 ins.diam., bears N.36°40'W. 5 lks. dist.,marked ¼ S.1 B T
55.95	Stream, 1 lk. wide, flows S.10°W. in bottom of narrow canyon, 340 ft. below ridge
	Enter dense undergrowth
	Ascending on 32° slope; leave timber, bears N.10°E. and S.10°W.
73.50	Top of spur ridge, projects S., 660 ft. above canyon
	Thence along S. face on gradual descent to
80.00	The cor. of secs. 1-2-11 and 12
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, aspen and pine; oak and thorn undergrowth
	Mountainous and heavily timbered land, 80.00 chs.
	N.0°01'W. bet. secs. 1 and 2
	Over mountainous land
	Ascending abruptly in dense undergrowth
10.75	Slope becomes gradual, bears E. and W., 325 ft. above corner
	Enter timber, bears N.W. and S.E.;leave dense undergrowth
16.00	Top of spur ridge, projects S.E.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Descending gradually on N.E. slope
25.00	Bottom of ravine, drains S.60°E.; leave timber, bears E. and W.; asc. abruptly
31.50	Ascent becomes gradual, bears E. and W.
	Enter large grove of pine timber, bears E. and W.
40.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pine tree, 15 ins.diam., bears N.60°00'E. 62 lks. dist., marked ¼ S 1 B T
	A pine tree, 11 ins.diam., bears N.66°25'W. 18 lks. dist., marked ¼ S 2 B T
56.20	Top of ascent, bears E. and W.
	Descending gradually on rolling plateau
71.00	Circle Spring bears E. about 4 chs. dist.
76.00	Leave timber, bears N.W. and S.E. at head of draw draining S.E.; asc. gradually
78.04	Old road from Wallsburg to Daniel's Canyon, bears N.W. and S.E.
80.00	Top of slope and low divide, bears E. and W.; desc. gradually
84.70	Dry run in swale, drains N.W.
86.00	Intersect 1st St. Par. south and N. bdy. of Tp. 8 lks. W. of the S.C. of secs. 35 and 36, heretofore described
	Set a sandstone 18x8x6 ins., 12 ins. in the ground for closing cor. of secs. 1 and 2, marked C C on S. with 1 groove on E. and 5 grooves on W. faces; raised a mound of stones 2 ft. base, 1½ ft. high, S. of cor.
	Pits impracticable.
	Land mountainous; soil gravely wash. 3rd rate
	Timber, aspen and pine, 65.25 chs.; thorn undergrowth
	Mountainous land 80.00 chs.
	May 12: the sky being cloudy during the noon hour I was unable to observe the sun on the meridian.
	From the cor. of secs. 2-3-34 and 35 on S. bdy. of Tp., heretofore described, I run
	N.0°02'W. bet. secs. 34 and 35

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Over mountainous and heavily timbered land
	Ascending gradually
3.00	Ascent becomes abrupt
15.00	Divide ridge, bears E. and W., 180 ft. above cor.; desc.
23.40	Spring branch, 2 lks. wide, drains W. in hollow 75 ft. deep; ascending
38.50	Top of spur ridge, 100 ft. high, projects W.; descend
40.00	Set a sandstone 16x13x10 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W, face; from which
	An aspen tree, 5 ins.diam., bears N.77°57'W. 54 lks. dist., marked ¼ S 34 B T
	An aspen tree, 4 ins.diam., bears S.40°30'E. 54 lks. dist., marked ¼ S 35 B T
50.00	Bottom of hollow, 60 ft. deep, drains W.; asc. abruptly
61.00	Top of spur ridge, projects W., 190 ft. above hollow
	Thence on gradual descent along steep W. slope
80.00	Set a sandstone 17x9x6 ins., 11 ins. in the ground for cor. of secs. 26-27-34 and 35, marked with 1 notch on S. and 2 notches on E. edges; from which
	An aspen tree, 4 ins.diam., bears N.21°10'E. 19 lks. dist., marked T 6 S R 5 E S 26 B T
	An aspen tree, 4 ins.diam., bears S.60°45'E. 5 lks. dist., marked T 6 S R 5 E S 35 B T
	An aspen tree, 4 ins,diam., bears S.14°40'W. 23 lks. dist., marked T 6 S R 5 E S 34 B T
	An aspen tree, 4 ins.diam., bears N.3°54'W. 23 lks. dist., marked T 6 S R 5 E S 27 B T
	Land,mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense aspen and maple, small size
	Mountainous and heavily timbered land, 80.00 chs.
	May 12, 1910.
	May 13: at 7h 56m a.m., 1 m t, I set off 40°15'38"N. on the lat. arc, 18°17'N. on the decl. arc and determine a meridian with the solar at the cor. of secs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	26-27-34 and 35; thence I run
	East on a random line bet. secs. 26 and 35
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 10 lks. N. of cor. of secs. 25-26-35 and 36
	Thence I run
	N.89°56'W. on a true line bet. secs. 26 and 35
	Over mountainous and heavily timbered land
	Ascending
7.25	Top of divide ridge, bears N.60°E. and S.60°W.
	Thence along N. slope on gradual ascent
30.50	Top of sharp spur ridge, 250 ft. above cor., projects N. from prominent peak located about 13 chs. S.
	Begin abrupt descent
40.05	Set a sandstone 17x11x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 9 ins.diam., bears N.26°05'E. 18 lks. dist., marked ¼ S 26 B T
	An aspen tree, 4 ins.diam., bears S.45°22'E. 4 lks. dist., marked ¼ S 35 B T
41.00	Bottom of slope, bears N. and S., 210 ft. below spur
	Enter flat in head of gulch draining N.
61.25	Stream, 1 lk. wide, flows N. at S. edge of pond about 3 chs. diam. draining N.
64.00	Begin abrupt ascent, bears N. and S.
69.50	Spur ridge, projects N.E., 100 ft. above gulch
	Thence along steep N. slope to
74.00	Top of spur ridge, projects N. from peak about 18 chs. S
	Descending abruptly to
80.10	The cor. of secs. 26-27-34 and 35
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few scattering pines
	Mountainous and heavily timbered land, 80.10 chs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	N.0°02'W. bet. secs. 26 and 27
	Over mountainous and heavily timbered land
	Descending along N.W. slope; in dense undergrowth
9.60	Descent becomes abrupt on N. slope
40.00	Set a sandstone 16x8x7 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears S.79°E. 6 lks. dist., marked ¼ S 26 B T
	An aspen tree, 4 ins.diam., bears S.41°50'W. 18 lks. dist., marked ¼ S 27 B T
	May 13: at this cor. I set off 18°19'N. on the decl. arc and at 11h 56m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°16' "N.
58.60	Hobble Creek, 7 lks. wide, flows W. in narrow canyon, 970 ft. below sec. cor.
	Begin abrupt ascent
62.00	Top of slope and spur ridge projecting S.E., 115 ft. above creek; thence along E. slope
74.00	Bottom of hollow, drains S.25°E.; ascending
80.00	Set a sandstone 16x13x6 ins. 11 ins. in the ground for cor. of secs. 22-23-26 and 27, marked with 2 notches on S. and E. edges; from which
	An aspen tree, 4 ins,diam., bears S.34°30'E. 26 lks. dist., marked T 6 S R 5 E S 26 B T
	An aspen tree, 4 ins.diam., bears S.48°10'W. 20 lks. dist., marked T 6 S R 5 E S 27 B T
	An aspen tree, 4 ins.diam., bears N.80°48'W. 18 lks. dist., marked T 6 S R 5 E S 22 B T
	An aspen tree, 4 ins.diam., bears N.28°10'E. 16 lks. dist., marked T 6 S R 5 E S 23 B T
	Land, mountainous
	Soil; gravely wash; 3 rd rate
	Timber, aspen of small size mainly, very dense growth, and a few scattering pines; dense tangle of undergrowth
	Mountainous and heavily timbered land, 80.00 chs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	S.89°56'E. on a random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line 9 lks. S. of cor. of secs. 23-24-25 and 26
	Thence I run
	West on a true line bet. secs. 23 and 26
	Over mountainous and heavily timbered land
	Descending
32.86	Hobble Creek, 3 lks. wide, flows S.55°W. in bottom of open gulch, 165 ft. below cor.
34.30	Ascend
35.70	Top of spur ridge, 40 ft. high, projects S.;desc. gradually
40.04	Set a sandstone 16x8x7 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears S.35°30'W. 21 lks. dist., marked ¼ S 26 B T
	An aspen tree, 5 ins.diam., bears N.46°05'W. 18 lks. dist., marked ¼ S 23 B T
44.54	Spring branch, 2 lks. wide, flows S.
48.94	Stream, 5 lks. wide, flows S.10°W. in bottom of hollow 50 ft. deep
49.50	Begin abrupt ascent, bears S.10°W. and N.10°E.
	Leave timber, bears N. and S.
55.00	Top of spur ridge, projects S.30°W., 75 ft. high; desc.
56.00	Enter small aspen timber and bottom of hollow, bears N. and S.
67.00	Stream, 3 lks. wide, flows S.W. in hollow; ascend
75.00	Leave timber, bears S.W. and N.E.
76.90	Top of spur ridge, 90 ft. high, projects S.; descend
77.70	Enter timber, bears N. and S.
80.08	The cor. of secs. 22-23-26 and 27
	Land, mountainous
	Soil; gravely wash; 3rd rate.
	Timber, pine and aspen east of gulch, rest small aspen

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Mountainous and heavily timbered land, 80.08 chs.
	May 13, 1910.
	May 14: I run
	N.0°02'W. bet. secs. 22 and 23
	Over mountainous land
	Ascending in aspen brake and dense undergrowth
8.00	Old Government road, bears N.E. and S.W.
37.00	Ascent becomes abrupt, bears E. and W.
40.00	Set a sandstone 16x8x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears S.24°05'W. 14 lks. dist., marked ¼ S 22 B T
	An aspen tree, 4 ins.diam., bears S.31°50'E. 13 lks. dist., marked ¼ S 23 B T
72.70	Top of slope, bears E. and W.; top of prominent peak 1200 ft. above sec. cor.
73.50	Begin gradual descent on even N. slope in scattering pine timber
80.00	Set a sandstone 18x7x6 ins., 13 ins. in the ground for cor. of secs. 14-15-22 and 23, marked with 3 notches on S. and 2 notches on E. edges; from which
	An aspen tree, 5 ins.diam., bears N.75°33'E. 71 lks. dist., marked T 6 S R 5 E S 14 B T
	An aspen tree, 4 ins.diam., bears S.77°21'E. 68 lks. dist., marked T 6 S R 5 E S 23 B T
	A pine tree, 6 ins.diam., bears N.50°20'W. 67 lks. dist., marked T 6 S R 5 E S 15 B T
	A pine tree, 20 ins.diam., bears S.71°05'W. 38 lks. dist., marked T 6 S R 5 E S 22 B T
	This cor. stands 50 ft. below top of peak
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, small aspen of very dense growth and a few pines
	Tangle of undergrowth

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Mountainous land, 80.00 chs.
	May 14: at this cor. I set off 18°34'30"N. on the decl. arc and at 11h 56m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°17'32"N.
	East on a random line bet. secs. 14 and 23
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line 12 lks. N, of cor. of secs. 13-14-23 and 24
	Thence I run
	N.89°55'W. on a true line bet. secs. 14 and 23
	Over mountainous and heavily timbered land
	Ascending
17.50	Top of spur ridge, projects N., 80 ft. above cor.
	Thence over rolling slope descending gradually to
32.10	Head of open gulch, 40 ft. deep, draining N. about 4 chs N. of divide ridge
35.00	Ascending even slope N. of ridge
40.00	Set a sandstone 18x11x8 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 10 ins.diam., bears S.35°03'W. 17 lks. dist., marked ¼ S 33 B T
	An aspen tree, 4 ins.diam., bears N.1°25'W. 9 lks. dist., marked ¼ S 14 B T
80.00	The cor. of secs. 14-15-22 and 23
	This cor. stands 540 ft. above head of gulch
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few scattering pines
	Mountainous and heavily timbered land, 80.00 chs.
	May 14: at this cor. I set off 40°17'32"N. on the lat. arc, 18°36'N. on the decl. arc and at 2h 26m p.m., 1 m t, determine a meridian with the solar
	Thence I run
	N.0°02'W. bet. secs. 14 and 15

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Over mountainous and heavily timbered land
	Descending
38.00	Timber changes gradually from pine to aspen and a few pine scattering
40.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 10 ins,diam., bears N.54°55'E. 18 lks. dist., marked ¼ S 14 B T
	An aspen tree, 4 ins.diam., bears S.46°36'W. 6 lks. dist., marked ¼ S 15 B T
80.00	Set a sandstone 17x9x6 ins., 11 ins. in the ground for cor. of secs. 10-11-14 and 15, marked with 4 notches on S. and 2 notches on E. edges; from which
	An aspen tree, 4 ins.diam., bears N.36°02'W. 2 lks. dist., marked T 6 S R 5 E S 10 B T
	An aspen tree, 4 ins.diam., bears S.83°25'W. 10 lks. dist., marked T 6 S R 5 E S 15 B T
	An aspen tree, 4 ins.diam., bears N.72°55'E. 28 lks. dist., marked T 6 S R 5 E S 11 B T
	An aspen tree, 4 ins.diam., bears S.42°25'E. 21 lks. dist., marked T 6 S R 5 E S 14 B T
	This cor. stands 760 ft. below cor. of secs. 14-15-22 and 23
	Land, mountainous
	Soil; gravely wash, 3rd rate
	Timber, pine and aspen on S.½ mile; aspen mainly on N. ½ mile
	Mountainous and heavily timbered land, 80.00 chs.
	May 14, 1910.
	May 15: at 7h 50m a.m., 1 m t, I set off 40°18'N. on the lat. arc, 18°46'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
	S,89°55'E. on a random line bet. secs. 11 and 14

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
40.00	Set temp. ¼ sec. cor.
80.12	Intersect N. and S. line 9 lks. S. of cor. of secs. 11-12-13 and 14
	Thence I run
	N.89°59'W. on a true line bet. secs. 11 and 14
	Over mountainous and heavily timbered land
	Desc. abruptly on W. slope
15.28	Stream, 8 lks. wide, flows N.18°W. in bottom of sharp gulch, 400 ft. below cor.; ascending abruptly
26.00	Top of spur ridge, projects N.15°W., 290 ft. above stream
	Thence along N. slope and gradual descent
40.06	Set a sandstone 18x8x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 7 ins.diam., bears S.1°04'W. 18 lks. dist., marked ¼ S 14 B T
	An aspen tree, 5 ins.diam., bears N.13°20'E. 15 lks. dist., marked ¼ S 11 B T
45.00	Descend
53.04	Stream, 3 lks, wide, from S. flows N.30°E. in hollow 80 ft. deep; asc. abruptly
65.00	Top of ridge, bears N. and S., 200 ft. above hollow Descending abruptly
80.12	The cor. of secs. 10-11-14 and 15
	This cor. stands 260 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, aspen, dense and of small size
	Mountainous and heavily timbered land, 80.12 chs.
	N.0°02'W. bet. secs. 10 and 11
	Over mountainous and heavily timbered land
	Descending on N.W. slope; in dense undergrowth
40.00	Set a sandstone 18x10x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears S.26°10'E. 5 lks.

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CHAINS.	
	dist., marked ¼ S 11 B T
	An aspen tree, 4 ins.diam., bears N.71°30'W. 6 lks. dist., marked ¼ S 10 B T
76.00	Spur ridge, projects N.W., 500 ft. below sec. cor.; begin abrupt descent on N. slope
80.00	Set a sandstone 18x6x6 ins., 12 ins. in the ground for cor. of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E. edges; from which
	A willow tree, 4 ins.diam., bears N.65°00'E. 8 lks. dist., marked T 6 S R 5 E S 2 B T
	Face of perpendicular ledge of rock, 4x5 ft. above ground, bears S.66°00'W. 5 lks. dist., marked x T 6 S R 5 E S 10 B 0
	No other bearing trees within limit; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor.
	This cor. stands 125 ft. below spur
	Land, mountainous
	Soil; gravely wash and bowlders; 3 rd rate
	Timber, small aspen of very dense growth; a tangle of undergrowth
	Mountainous and heavily timbered land, 80.00 chs.
	May 15: at this cor. I set off 18°48'N. on the decl. arc and at 11h 56m a.m., l m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
	S.89°59'E. on a random line bet. secs. 2 and 11
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 3 lks. S. of cor. of secs 1-2-11 and 12
	Thence I run
	West on a true line bet. secs.2 and 11
	Over mountainous land; through dense undergrowth
	Descending abruptly along broken S.W. slope
40.02	Set a sandstone 18x12x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high N. of cor.

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CHAINS.	
	Pits impracticable.
78.30	Old log road, bears N.75°W. and S.75°E.
79.51	Round Valley Creek, 12 lks. wide, swift current, flows N .75°W. in sharp narrow canyon, 825 ft. below sec. cor
	Ascending 10 ft. to
80.04	The cor. of secs. 2-3-10 and 11
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	No timber; dense oak, maple, and thorn undergrowth
	Mountainous land, 80.04 chs.
	N.0°02'W. bet. secs. 2 and 3
	Over mountainous land
	Descending
0.14	Round Valley Creek, 12 lks. wide, drains N.75°W. in bottom of narrow canyon
0.52	Old log road, runs parallel to creek
	Begin abrupt ascent on broken S.W. slope
28.00	Top of spur ridge, projects W., 470 ft. above creek
	Descending abruptly
32.50	Enter aspen timber, bears E. and W.
40.00	Set a sandstone 16x7x6 ins.,11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
	An aspen tree, 4 ins.diam., bears east 1 lk. dist., marked $\frac{1}{4}$ S 2 B T
	An aspen tree, 4 ins.diam., bears S.50°W. 4 lks. dist., marked $\frac{1}{4}$ S 3 B T
42.10	Bottom of gulch, drains S.70°W., 275 ft. below ridge
	Begin abrupt ascent
	Leave timber, bears parallel to gulch
61.40	Top of ridge, bears E. and W., 380 ft. above gulch
62.00	Descend abrupt in dense brake
65.45	Dry wash, drains N.W. in bottom of Circle Canyon, 120 ft. below ridge
	Old road along bottom of wash

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CHAINS.	
	Ascending abruptly on S.W. slope; leave brake, bears parallel to canyon
81.50	Top of spur ridge, projects W.; 115 ft. above canyon
	Descend gradually on N.W. slope to
86.06	Intersect 1st St. Par. south and N. bdy. of Tp. 1.00 ch. W. of the S.C. of secs. 34 and 35, heretofore described
	Set a sandstone 24x18x8 ins.,18 ins. in the ground for closing cor. of secs. 2 and 3, marked C C on S. with 2 grooves on E. and 4 grooves on W. faces; raised a mound of stones 2 ft. base, 1½ ft. high S. of cor. Pits impracticable
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, small dense aspen brake in patches
	Mountainous land, 86.06 chs.
	May 15, 1910.
	May 16: at 7h 10m a.m., 1 m t, I set off 40°15'N. on the lat. arc, 19°00'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 3-4-33 and 34 on S. bdy. of Tp., heretofore described
	Thence I run
	N.0°02'W. bet. secs. 33 and 34
	Over mountainous land
	Ascending in dense undergrowth
3.80	Top of divide ridge, bears N.E. and S.W, 40 ft.above cor
	Begin abrupt descent; enter timber, bears N.E. and S.W.
28.10	Stream, 1 lk. wide, flows N.30°W. in hollow 60 ft. deep
	Ascending to
32.00	Top of spur ridge, projects N.W., 35 ft. above hollow
	Descending
33.50	Leave timber, bears N.W. and S.E. and enter undergrowth
36.95	Hollow, 40 ft. deep, drains N.70°W.; ascending
40.00	Set a sandstone 18x10x6 ins.,12 ins. in the ground for

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CHAINS.	
	¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
42.15	Top of spur ridge, 80 ft. high, projects N.70°W.; desc.
43.00	Enter timber, bears N.W. and S.E.
47.05	Bottom of hollow, drains N.70°W., 65 ft. deep; ascending
54.00	Top of long spur ridge, projects N.W., 50 ft. above hollow; descending abruptly
69.25	Hollow, 75 ft. deep, drains N.W.; ascending to
72.00	Top of spur ridge, projects N.W.; descending abruptly to
79.85	Hobble Creek, 12 lks. wide, flows W. in bottom of narrow canyon, 1100 ft. below divide ridge
80.00	Set a sandstone 18x12x10 ins., 12 ins. in the ground for cor. of secs. 27-28-33 and 34, marked with 1 notch on S. and 3 notches on E. edges; from which
	An aspen tree, 4 ins.diam., bears N.46°00'W. 12 lks. dist., marked T 6 S R 5 E S 28 B T
	An aspen tree, 6 ins.diam., bears N.42°33'E. 7 lks. dist., marked T 6 S R 5 E S 27 B T
	A water alder tree, 4 ins.diam., bears S.42°50'E. 25 lks.dist., marked T 6 S R 5 E S 34 B T
	An aspen tree, 5 ins.diam., bears S.48°00'W. 26 lks. dist., marked T 6 S R 5 E S 33 B T
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rates
	Timber, small aspen of dense growth and a few scattering pines
	Dense tangle of undergrowth
	Mountainous land, 80.00 chs.
	East on a random line bet. secs. 27 and 34
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line 12 lks. S. of cor. of secs. 26-27-34 and 35
	Thence I run
	S.89°55'W. on a true line bet. secs. 27 and 34

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CHAINS.	
	Over mountainous and heavily timbered land
	Descending abruptly on W. slope; in dense undergrowth
30.00	Descent becomes gradual on sloping bench 600 ft. below corner
39.96	Set a sandstone 17x8x5 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	An aspen tree, 4 ins.diam., bears S.22°21'E. 11 lks. dist., marked ¼ S 34 B T
	An aspen tree, 5 ins.diam., bears N.61°05'W. 14 lks. dist., marked ¼ S 27 B T
52.00	Begin abrupt descent, bears N. and S.
61.30	Stream, 2 lks. wide, in ravine 90 ft. deep, drains N.W.
	Ascending to
66.00	Top of spur ridge, projects N.35°W.; descending
69.00	Enter bottom of canyon, 900 ft. below s.s.cor.
69.82	Hobble Creek, 12 lks. wide, from N.70°E. flows W.
79.50	Leave creek
79.92	The cor. of secs. 27-28-33 and 34
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, aspen of small size and dense growth and a few scattering pine
	Dense tangle of undergrowth
	Mountainous land, 79.92 chs.
	May 16: at this cor. I set off 19°02'N. on the decl. and and at 11h 56m a.m., l m t, observe the sun on the meridian; the resulting lat. is 40°16'03"N.

	N.0°02'W. bet.secs. 27 and 28
	Over mountainous land and through dense undergrowth
0.24	Old mill road, bears E. and W.
0.45	Begin ascent on 32° slope; leave bottom of canyon
26.54	Top of spur ridge, projects S.50°W., 620 ft. above cor Descending
27.50	Enter timber, bears S.50°W. and N.50°E.
36.00	Enter flat bottom of gulch, 135 ft. below spur

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CHAINS.	
38.60	Old Government road, bears N.75°E. and S.75°W.
40.00	Set a sandstone 18x8x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears N.72°21'E. 22 lks. dist., marked ¼ S 27 B T
	An aspen tree, 5 ins.diam., bears S.64°34'W. 25 lks. dist., marked ¼ S 28 B T
40.55	Old wood road, bears N.E. and S.W.
52.50	Begin descent
56.80	Stream, 3 lks.wide, flows S.W. in hollow 35 ft. deep
	Begin abrupt ascent
	Leave timber, bears N.E. and S.W.
76.30	Top of spur ridge, projects S.W., 425 ft. above stream
	Enter timber, bears S.W. and N.E. and begin descent
80.00	Set a sandstone 17x9x6 ins.,11 ins. in the ground for cor. of secs. 21-22-27 and 28, marked with 2 notches on S. and 3 notches on E. edges; from which
	An aspen tree, 5 ins.diam., bears S.82°06'E. 14 lks. dist., marked T 6 S R 5 E S 27 B T
	An aspen tree, 4 ins.diam., bears N.40°50'E. 17 lks. dist., marked T 6 S R 5 E S 22 B T
	An aspen tree, 4 ins.diam., bears N.46°45'W. 23 lks. dist., marked T 6 S R 5 E S 21 B T
	An aspen tree, 4 ins.diam., bears S.59°37'W. 8 lks. dist., marked T 6 S R 5 E S 28 B T
	This cor. stands 35 ft. below ridge
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, small dense aspen and a few scattering pine
	Dense oak and thorn undergrowth
	Mountainous land, 80.00 chs.

May 16, 1910.

May 17: at 7h 30m a.m., l m t, I set off 40°16'30"N. on the lat. arc, 19°14'N. on the decl arc and determine a meridian with the solar at the cor. of secs. 21-

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CHAINS.	
	22-27 and 28; thence I run
	N.89°55'E. on a random line bet. secs. 22 and 27
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs.22-23-26 and
	Thence I run
	S.89°55'W. on a true line bet. secs. 22 and 27
	Over mountainous land
	Descending in aspen brake and timber to
1.65	Bottom of hollow, drains S.25°E.
	Begin abrupt ascent
5.00	Leave timber and brake, bears N. and S.;enter dense on brush
18.70	Old Government road, bears N.75°E. and west at point o spur ridge, projecting S.
20.00	Leave road, turns S.75°W.
28.00	Top of spur ridge, projects S.60°W., 200 ft. above cor
	Descending gradually in open gulch
	Enter timber, bears N.E. and S.W.
40.00	Set a sandstone 16x8x7 ins.,11 ins. in the ground for ¼ sec. cor.,marked ¼ on N. face; from which
	An aspen tree, 6 ins.diam., bears S.30°00'E. 32 lks. dist., marked ¼ S 27 B T
	An aspen tree, 6 ins.diam., bears N.33°05'W. 43 lks. dist., marked ¼ S 22 B T
54.70	Dry wash, drains S.55°W. in bottom of gulch, 100 ft. below ridge; begin abrupt ascent; leave timber, bears parallel to wash
74.00	Top of spur ridge, projects S.55°W., 400 ft. above wash
	Descending
74.70	Enter timber, bears N.E. and S.W.
80.00	The cor. of secs. 21-22-27 and 28
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, aspen of small size and dense growth and a few pine
	Mountainous land, 80.00 chs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	N.0°02'W. bet. secs. 21 and 22
	Over mountainous land
	Descending abruptly in timber
32.46	Stream, 3 lks. wide, flows S.60°W. in bottom of Sheep Hollow, 540 ft. below cor.; begin abrupt ascent in dense undergrowth
	Leave timber, bears N.60°E. and S.60°W.
40.00	Set a sandstone 18x12 x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor.
	May 17: at this cor. I set off 19°16'N. on the decl. arc and at 11h 56m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°17'N.
4 4.70	Top of spur ridge, projects S.60°W., 350 ft. above canyon; begin abrupt descent
58.57	Dry wash in hollow, drains S.W., 130 ft. below ridge;asc.
62.50	Top of spur ridge, projects S.70°W., 40 ft. high; desc.
74.48	Hollow with seep of water, drains S.65°W., 90 ft. deep
	Ascending abruptly
79.40	Top of slope and spur ridge projecting S.65°W.,110 ft. above hollow
80.00	Set a sandstone 18x12x6 ins.,12 ins. in the ground for cor. of secs. 15-16-21 and 22, marked 6 S on N.E. and 5 E on S.E. faces with 3 notches on S. and E. edges; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous
	Soil: gravely wash; 3 rd rate
	Timber, dense growth of small aspen and a few pine, scattering
	Dense tangle of brush and brake
	Mountainous land, 80.00 chs.
	N.89°55'E. on a random line bet. secs. 15 and 22
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 12 lks. N. of cor. of secs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	14-15-22 and 23
	Thence I run
	West on a true line bet. secs. 15 and 22
	Over mountainous land
	Along N. slope through timber
5.00	Begin descent, bears N. and S.
13.50	Top of divide ridge, bears N.65°W. and S.65°E.
	Descent becomes abrupt on W. slope
	Leave timber, bears parallel to ridge
18.00	Enter timber, bears N.W. and S.E.
40.02	Set a sandstone 17x6x6 ins.11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 5 ins.diam., bears N.26°36'E. 13 lks. dist., marked ¼ S 15 B T
	An aspen tree, 4 ins.diam., bears S.72°55'E. 15 lks. dist., marked ¼ S 22 B T
60.50	Head of hollow, drains S.65°W.
	Thence along S.W. slope on gradual descent
80.04	The cor. of secs. 15-16-21 and 22
	This cor. stands 580 ft. below cor. of secs. 14-15-22 and 23
	Land, mountainous
	Soil: gravely wash and bowlders; 3rd rate
	Timber, aspen and pine
	Mountiainous land, 80.04 chs.
	May 17, 1910.
	May 18: I run
	N.0°02'W. bet. secs. 15 and 16
	Over mountainous land
	Descending
3.40	Enter dense aspen brake and undergrowth, bears E. and W.
9.50	Bottom of hollow, 60 ft. deep, drains W.
	Begin abrupt ascent
22.60	Top of divide ridge, bears E. and W., 250 ft. above hollow

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CHAINS.	
23.50	Begin abrupt descent
25.00	Enter timber, bears E. and W.
40.00	Set a sandstone 17x9x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears N.30°17'W. 25 lks. dist., marked ¼ S 16 B T
	An aspen tree, 6 ins.diam., bears S.72°35'E. 16 lks. dist., marked ¼ S 15 B T
80.00	Set a sandstone 18x12x6 ins.,12 ins. in the ground for cor. of secs. 9-10-15 and 16, marked with 4 notches on S. and 3 notches on E. edges; from which
	An aspen tree, 5 ins.diam., bears S.28°10'E. 36 lks. dist., marked T 6 S R 5 E S 15 B T
	An aspen tree, 5 ins.diam., bears S.60°09'W. 11 lks. dist., marked T 6 S R 5 E S 16 B T
	A pine tree, 17 ins.diam., bears N.66°20'W. 15 lks. dist., marked T 6 S R 5 E S 9 B T
	An aspen tree, 4 ins.diam., bears N.12°55'E. 18 lks. dist., marked T 6 S R 5 E S 10 B T
	This cor. stands 660 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, dense growth of aspen of small size mainly, and a few pine, scattering; dense undergrowth
	Mountainous land, 80.00 chs.
	May 18: the sky being overcast during the noon hour I was unable to observe the sun on the meridian
	East on a random line bet. secs. 10 and 15
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line at cor. of secs. 10-11-14 and15
	Thence I run
	West on a true line bet. secs. 10 and 15
	Over mountainous and heavily timbered land
	Descending to

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
20.66	Stream, 3 lks.wide, flows N. in gulch 170 ft. below cor.
	Ascending along broken N. slope to
39.95	Set a sandstone 17x15x7 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 5 ins.diam., bears N.4°10'E. 66 lks. dist., marked ¼ S 10 B T
	An aspen tree, 6 ins.diam., bears S.33°12'E. 26 lks. dist., marked ¼ S 15 B T
58.00	Top of slope and spur ridge projecting N.30°E., 340 ft. above gulch; descending to
60.00	Head of hollow, drains N.E.; begin abrupt ascent
63.60	Top of spur ridge, 100 ft. above hollow, projecting N. 25°E. to saddle about 15 chs. below; divide of water
	Descending on N.W. slope to
79.90	The cor. of secs. 9-10-15 and 16
	This cor. stands 120 ft. below spur
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and a few scattering pine
	Mountainous and heavily timbered land, 79.90 chs.
	May 18: at 3h 10m p.m.,1 m t, I set off 40°18'N. on the lat. arc, 19°31'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 9-10-15 and 16; thence I run
	N.0°02'W. bet. secs. 9 and 10
	Over mountainous land
	Descending abruptly in timber
29.75	Stream, 4 lks.wide, flows N.W. in bottom of gulch, 320 ft. below cor.; leave timber, bears parallel to gulch
31.50	Begin ascent
40.00	Set a sandstone 15x8x5 ins.,10 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high W. of cor. Pits impracticable

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
45.50	Top of ridge, bears N.W. and S.E., 175 ft. above gulch
	Begin descent over broken slope in timber, bears N.W. and S.E.
56.00	Timber changes to aspen brake and brush
80.00	Set a sandstone 18x8x8 ins., 12 ins. in the ground for cor. of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor.
	This cor. stands 160 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash and bowlders; 3 rd rate
	Timber, aspen and a few pine
	Mountainous land, 80.00 chs.
	May 18, 1910.
	May 19: at 7h 40m a.m., l m t, I set off 40°19'N. on the lat. arc, 19°41'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
	East on a random line bet. secs. 3 and 10
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 14 lks. S. of cor. of secs. 2-3-10 and 11
	Thence I run
	S.89°54'W. on a true line bet. secs. 3 and 10
	Over mountainous land, through dense undergrowth and timber
	Ascending
4.55	Top of spur ridge; projects N.W., 50 ft. above cor.
	Descending
6.75	Stream, 3 lks.wide, flows N. to junction at 3 chs. N.
	Begin abrupt ascent over broken N.E. slope
39.98	Set a sandstone 18x8x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 3 ins.diam., bears S.18°25'E. 10 lks.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked ¼ S 10 B T
	An aspen tree, 4 ins.diam., bears N.5°55'W. 34 lks. dist., marked ¼ S 3 B T
51.00	Top of canyon and ridge, bears N. and S., 960 ft. above sec. cor.; begin gradual descent in timber, bears N. and S.
75.00	Timber becomes brake and undergrowth, bears N. and S.
79.96	The cor. of secs. 3-4-9 and 10
	This cor. stands 150 ft. below ridge
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, aspen, and a few pine, scattering; dense undergrow
	Mountainous land, 79.96 chs.
	May 19: at this cor. I set off 19°43'N. on the decl. arc and at 11h 56m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
	N.0°02'W. bet. secs. 3 and 4
	Over mountainous land
	Descending in aspen brake and undergrowth
3.25	Rocky run, drains N.25°E. in hollow 25 ft. deep
	Thence along steep rocky E. slope descending
40.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
52.60	Spur ridge, projects N.E.; begin abrupt descent on N. slope
79.00	Enter bottom of Round Valley Canyon, bears N.W. and S.E. 985 ft. below sec. cor.
81.40	Round Valley Creek, 24 lks. wide, flows N.W.
86.56	Intersect 1st St. Par. south and N. bdy. of Tp. at 2.20 chs. N.89°43'W. of the S.C. of secs.33 and 34, heretofore described
	Set a quartzite stone 18x12x8 ins., 12 ins. in the ground for closing cor. of secs. 3 and 4, marked C C on S.

CHAINS.	
	with 3 grooves on E. and W. faces; from which
	An aspen tree, 5 ins.diam., bears S.86°32'E. 23 lks. dist., marked T 6 S R 5 E S 3 B T
	A cottonwood tree, 7 ins.diam., bears S.56°37'W. 25 lks.dist., marked T 6 S R 5 E S 4 B T
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, a few cottonwoods and aspen along creek
	Dense oak and thorn undergrowth
	Mountainous land, 86.56 chs.
	May 19, 1910.
	May 20: at 7h 25m a.m.,1 m t, I set off 40°15'N. on the lat. arc, 19°53' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4-5-32 and 33 on S. bdy. of Tp., heretofore described; thence I run
	N.0°03'W. bet. secs. 32 and 33
	Over mountainous land and through dense undergrowth
	Ascending gradually along E. side of hollow
9.50	Seep in bottom of hollow, drains S.10°W.
	Ascent becomes more abrupt on broken slope
38.00	Top of divide ridge, bears E. and W., 200 ft. above cor.
	Begin abrupt ascent
40.00	Set a sandstone 17x7x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears N.31°11'E. 23 lks. dist., marked ¼ S 33 B T
	An aspen tree, 4 ins.diam., bears S.70°00'W. 49 lks. dist., marked ¼ S 32 B T
	Enter aspen timber, bears N.E. and S.W.
47.60	Bottom of hollow draining W., 175 ft. below ridge; asc.
56.00	Leave timber, bears E. and W.
62.20	Top of spur ridge, projects N.70°W. on level with divide
	Begin abrupt descent

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
67.00	J.F.Averett's house bears S.79°10'W. 47.60 chs.
70.00	Enter timber, bears E. and W.
80.00	Set a porphyry stone 18x8x6 ins.,12 ins. in the ground for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges; from which
	An aspen tree, 6 ins.diam., bears S.62°00'W. 9 lks. dist., marked T 6 S R 5 E S 32 B T
	An aspen tree, 4 ins.diam., bears S.87°37'E. 18 lks. dist., marked T 6 S R 5 E S 33 B T
	An aspen tree, 4 ins.diam., bears N.28°20'E. 20 lks. dist., marked T 6 S R 5 E S 28 B T
	An aspen tree, 4 ins.diam., bears N.51°00'W. 17 lks. dist., marked T 6 S R 5 E S 29 B T
	This cor. stands 290 ft. below top of spur
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, small aspen of dense growth,and brush undergrowth
	Mountainous land, 80.00 chs.
	East on a random line bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs.27-28-33 and 34
	Thence I run
	West on a true line bet. secs. 28 and 33
	Over mountainous land, through dense undergrowth
0.20	Enter Hobble Creek, 12 lks. wide, flows W.
20.00	Leave Creek, turns N.70°W.
29.85	Stream, 3 lks.wide, flows N.30°W. in mouth of gulch
	Begin abrupt ascent
40.00	Set a sandstone 17x9x5 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	May 20: at this cor. I set off 19°55'N. on the decl. arc and at 11h 56m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°16'N.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
57.00	Ravine, 60 ft. deep, drains N.
65.00	Enter aspen timber, bears N. and S.
80.00	The cor. of secs. 28-29-32 and 33
	This cor. stands 340 ft. above creek
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few pines, scattering
	Dense tangle of undergrowth
	Mountainous land and dense undergrowth, 80.00 chs.
	N.0°03'W. bet. secs. 28 and 29
	Over mountainous and heavily timbered land
	Descending abruptly
24.90	Irrigation ditch, 4 lks.wide, drains W.
26.00	Enter bottom of Hobble Creek Canyon, bears E. and W., 475 ft. below cor.
27.70	Hobble Creek, 13 lks.wide, flows W.
28.41	Old canyon road, bears E. and W.; begin abrupt ascent
30.50	Top of sharp spur ridge, projects S.60°W., 70 ft. high
	Begin gradual descent on W. slope to
33.80	Stream, 4 lks.wide, flows S.25°W. in bottom of Sheep Canyon
34.40	Old wood road, runs parallel to stream; begin abrupt asc.
36.50	Leave timber, bears N.E. and S.W. and enter dense undergrowth
40.00	Set a limestone 18x10x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable
55.00	Top of ridge, bears N.25°E. and S.25°W., 240 ft. above canyon; thence along W. slope
65.00	Begin descent
80.00	Set a sandstone 18x8x7 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
	An aspen tree, 5 ins.diam., bears N.19°30'W. 22 lks.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked T 6 S R 5 E S 30 B T
	An aspen tree, 4 ins.diam., bears S.34°57'W. 18 lks. dist., marked T 6 S R 5 E S 29 B T
	An aspen tree, 4 ins.diam., bears S.19°25'E. 21 lks. dist., marked T 6 S R 5 E S 28 B T
	An aspen tree, 4 ins.diam., bears N.36°03'E. 21 lks. dist., marked T 6 S R 5 E S 21 B T
	This cor. stands 150 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber,aspen, dense and of small size and scattering pine
	Dense oak, maple, and thorn undergrowth
	Mountainous land, 80.00 chs.
	May 20,1910.
	May 21: at 7h 30m a.m.,1 m t, I set off 40°16'30"N. on the lat. arc, 20°06'W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 20-21-28 and 29; thence I run
	East on a random line bet. secs. 21 and 28
40.00	Set temp. ¼ sec. cor.
79.92	Intersect N. and S. line 9 lks.N, of cor. of secs. 21-22-27 and 28
	Thence I run
	N.89°56'W. on a true line bet. secs. 21 and 28
	Over mountainous and heavily timbered land
	Descending abruptly
28.50	Hollow, drains S.W., 410 ft. below cor.
	Leave timber and enter dense undergrowth, bears N.E. and S.W.; ascending abruptly
39.00	Top of spur ridge, projects S.W., 100 ft. above hollow Begin descent
39.96	Set a sandstone 18x7x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.

SUBDIVISION OF T.6 S.R.5 E.

CHAINS.	
47.50	Stream, 3 lks.wide, flows S.25°W. in bottom of Sheep Canyon
50.20	Old wood road, runs parallel to stream; begin abrupt as
66.00	Top of sharp ridge, bears S.20°W. and N.20°E., 320 ft. above canyon; desc. abruptly
66.75	Enter timber
79.92	The cor. of secs. 20-21-28 and 29
	This cor. stands 300 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, small aspen of dense growth
	Dense undergrowth
	Mountainous and heavily timbered land, 79.92 chs.
	May 21: at this cor. I set off 20°08'N. on the decl. arc and at 11h 56m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°16'30"N.
	N.0°03'W. bet. secs. 20 and 21
	Over mountainous land
	Descending abruptly im timber and undergrowth
1.49	Stream, 5 lks.wide, flows S.75°W. in narrow gulch
1.90	Old drag road, runs parallel to stream
	Begin abrupt ascent in rocky break
4.50	Top of spur ridge, projects E., 90 ft. high
	Thence along broken E. slope and gradual ascent
12.00	Hollow, drains S.E.; ascent becomes abrupt
	Leave timber, bears E. and W.
25.00	Top of spur ridge projecting E., 260 ft. above stream
27.00	Head of swale draining E., 20 ft. deep; asc. on broken surface
35.25	Top of ridge projecting S.15°W., 50 ft. above swale
	Thence along W. slope to
40.00	Set a quartzite stone 18x10x6 ins.12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A scrub oak tree, 5 ins.diam., bears S.2°55'E. 33 lks

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	dist., marked ¼ S 21 B T
	A scrub oak tree, 3 ins.diam., bears S.10°50'W. 46 l
	dist., marked ¼ S 20 B T
47.00	Bottom of hollow, drains S.35°W., 90 ft. deep; ascend
56.50	Top of spur ridge, projects S.35°W.,120 ft.above hollow
	Descending
70.15	Bottom of hollow, 60 ft. deep, drains S.35°W.
	Ascending broken slope to
80.00	Set a sandstone 16x12x10 ins., 11 ins. in the ground fo
	cor. of secs. 16-17-20 and 21, marked with 3 notche
	on S. and 4 notches on E. edges; raised a mound of
	stones 3 ft. base, 1½ ft. high, W. of cor. Pits
	impracticable.
	This cor. stands 600 ft. above the cor. of secs. 20-21-
	28 and 29
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, aspen of small size
	Dense oak brush and brake undergrowth
	Mountainous land, 80.00 chs.
	S.89°56'E. on a random line bet. secs. 16 and 21
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 12 lks. S. of cor. of secs.
	15-16-21 and 22
	Thence I run
	S.89°59'W. on a true line bet. secs. 16 and 21
	Over mountainous land
	Descending abruptly,in undergrowth
3.00	Enter timber, bears N.W. and S.E.
19.65	Dry wash, drains S.25°W. in bottom of narrow gulch, 325
	ft, below cor.
	Begin ascent on 30° slope; leave timber, bears parallel
	to gulch;

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
26.28	Top of spur ridge, projects S.25°W., 165 ft. above gulch
	Begin gradual descent.
30.00	Descent becomes abrupt, bears N. and S.
36.00	Enter timber, bears N. and S.
39.98	Set a sandstone 15x10x8 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 6 ins.diam., bears N.39°30'E. 7 lks. dist., marked ¼ S 16 B T
	An aspen tree, 6 ins.diam., bears S.2°36'E. 23 lks. dist., marked ¼ S 21 B T.
	This cor. stands in bottom of hollow draining S.25°W., 215 ft. below ridge
40.50	Begin abrupt ascent; leave timber, bears N. and S.
46.00	Top of spur ridge, projects S.20°W., 80 ft. high
	Descending abruptly
56.30	Stream, 3 lks.wide, flows S.in bottom of sharp gulch, 165 ft. below spur; asc. rolling slope to
76.54	Top of ridge, bears N.10°W. and S.20°E., 250 ft. above stream; descending to
79.96	The cor. of secs. 16-17-20 and 21
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, small aspen of dense growth
	Dense oak and thorn undergrowth
	Mountainous land, 79.96 chs.
	May 21, 1910.

May 22: at 7h 45m a.m., 1 m t, I set off 40°17'32"N. on the lat. arc, 20°18'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 16-17-20 and 21; thence I run

N.0°03'W. bet. secs. 16 and 17

Over mountainous land

Ascending along S.W. slope in undergrowth

17.50 Top of divide ridge, bears E. and W., 135 ft. above cor.

Descending

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
21.00	Enter pine timber, bears E. and W.
28.15	Hollow, drains N.30°W., 70 ft. below ridge
	Leave timber, bears N.W. and S.E. ; ascend
36.00	Top of spur, ridge, 40 ft. high, projects N.W.; descend
40.00	Set a sandstone 18x8x7 ins., 13 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
56.29	Stream, 3 lks. wide, flows N.30°W. in hollow 200 ft. below spur; ascending abruptly on S.W. slope
71.00	Top of spur ridge projecting N.30°W. 100 ft. above hollow
	Descending to
76.00	Enter aspen timber, bears E. and W.
80.00	Set a sandstone 18x10x8 ins., 12 ins. in the ground for cor. of secs. 8-9-16 and 17, marked with 4 notches on S. and E. edges; from which
	An aspen tree, 7 ins. diam., bears S.34°46'W. 56 lks. dist., marked T 6 S R 5 E S 17 B T
	An aspen tree, 6 ins. diam., bears S.30°39'E. 58 lks. dist., marked T 6 S R 5 E S 16 B T
	An aspen tree, 4 ins. diam., bears N.33°18'E. 44 lks. dist., marked T 6 S R 5 E S 9 B T
	An aspen tree, 4 ins. diam., bears N.12°55'W. 56 lks. dist., marked T 6 S R 5 E S 8 B T
	This cor. stands 70 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine of good growth and aspen, small size
	Oak, willow, and thorn undergrowth
	Mountainous land, 80.00 chs.
	N.89°59'E. on a random line bet. secs. 9 and 16
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 9-10-15 and 16
	Thence I run
	S.89°59'W. on a true line bet. secs. 9 and 16

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	Over mountainous and heavily timbered land
	Along broken N. slope and gradual descent
21.98	Stream, 1 lk. wide, flows N. in open hollow, 90 ft.below cor.; ascend
25.00	Top of spur ridge, 30 ft.high, projects N.; descend
32.00	Bottom of hollow, drains N.10°W., 40 ft. deep; ascend
37.80	Top of slope, bears N. and S.; descend gradually
40.00	Set a sandstone 20x10x8 ins.,15 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 6 ins.diam., bears N.19°52'W. 6 lks. dist., marked ¼ S 9 B T
	An aspen tree, 5 ins.diam., bears S.4°45'E. 10 lks. dist., marked ¼ S 16 B T
	May 22: at this cor. I set off 20°20'N. on the decl. arc and at 11h 56m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°18'N.
62.00	Begin descent, bears N.W. and S.E.
79.65	Dry wash in hollow, 100 ft. deep, drains N.W.
80.00	The cor. of secs. 8-9-16 and 17
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and scattering pine,
	Mountainous and heavily timbered land, 80.00 chs.
	N.0°03'W. bet. secs. 8 and 9
	Over mountainous land
	Descending gradually in timber
0.27	Dry wash in bottom of hollow,drains N.W. ; ascending
17.00	Top of spur ridge, projects N.W., 150 ft. above hollow Descending
40.00	Set a sandstone 18x10x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4ins.diam., bears N.40°03'W. 17 lks. dist., marked ¼ S 8 B T
	An aspen tree, 4 ins.diam., bears N.73°10'E. 11 lks. dist., marked ¼ S 9 B T

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
48.66	Stream, 5 lks. wide, flows N.65°W. in hollow 300 ft. below ridge; ascending
55.00	Top of spur ridge, projects W., 50 ft. high; descend
63.00	Enter bottom of hollow, bears N.20°E. and S.20°W.
64.16	Same stream, 5 lks.wide, from S.25°W. turns N.
65.00	Leave stream, turns N.20°W.
66.50	Begin ascent on steep S.W. slope
80.00	Set a sandstone 18x12x7 ins.,12 ins. in the ground for cor. of secs. 4-5-8 and 9, marked with 5 notches on S, and 4 notches on E. edges; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	This cor. stands 125 ft. above stream
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, small aspen of dense growth
	Mountainous land, 80.00 chs.
	May 22, 1910.
	May 23: I run
	N.89°59'E. on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
79.94	Intersect N. and S. line 3 lks. N. of cor. of secs. 3-4-9 and 10
	Thence I run
	West on a true line bet. secs. 4 and 9
	Over mountainous land
	Descending gradually in brake and undergrowth
2.45	Rocky run in hollow, drains N.30°E.; ascend
10.00	Enter pine and aspen timber, bears N. and S.
16.00	Top of spur ridge, projects S., 110 ft. above hollow;desc.
30.25	Dry wash in bottom of open draw, drains N.30°W., 100 ft. below spur; ascend gradually
39.97	Set a sandstone 17x8x8 ins. 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears S.4°30'E. 30 lks. dist., marked ¼ S 9 B T

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	An aspen tree, 4 ins.diam., bears N.21°50'W. 32 lks. dist., marked ¼ S 4 B T
	This cor. stands on top of swell bearing N. and S.
42.00	Descend gradually
60.00	Leave timber, bears N. and S. and begin abrupt descent on break, bears N. and S.; enter dense oak brush
79.94	The cor. of secs. 4-5-8 and 9
	This cor. stands 520 ft. below top of break
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, pine, and aspen brake, and brush undergrowth
	Mountainous land, 79.94 chs.
	N.0°03'W. bet. secs. 4 and 5
	Over mountainous land and through dense undergrowth
	Ascending gradually on steep W. slope
2.00	Top of spur ridge, projects W.; descending gradually
40.00	A stationary sandstone 15x12x12 ins. above ground I mark ¼ on W.; raise a mound of stones 2 ft. base, 1½ high, W. of cor. Pits impracticable
	May 23: at this cor. I set off 20°32'00"N. on the decl. arc and at 11h 56m a.m., l.m.t, observe the sun on the meridian; the resulting lat. is 40°20'00"N.
53.27	Irrigating ditch, 4 lks. wide, course N.20°E.
78.05	Drag road, bears N.30°E. and S.20°W. in bottom of East Fork of Hobble Creek Canyon, 575 ft. below sec.cor.
79.10	East Fork of Hobble Creek, 9 lks.wide, flows N.30°E. Begin ascent
82.60	Top of spur ridge, projects E., 40 ft. above creek
	Thence along steep E. slope to
87.10	Intersect 1st St. Par. South and N. bdy. of Tp. 2.06 chs W. of S.C. of secs. 32 and 33, heretofore described
	Set a sandstone 18x10x9 ins., 12 ins. in the ground for closing cor. of secs. 4 and 5, marked CC on S.; with 4 grooves on E. and 2 grooves on W. faces; raised a mound of stones 2 ft. base, 1½ ft. high, S. of

SUBDIVISION OF T.6 S. R. 5 E.

CHAINS.	
	cor. Pits impracticable.
	Land, mountainous
	Soil; bowlders, clay, and gravel; 3rd rate
	No timber; dense oak, maple, and thorn undergrowth
	Mountainous land and dense undergrowth, 87.10 chs.
	May 23: at 3h 31m p.m., l m t, I set off 40°15'N. on the lat. arc, 20°34'30"N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 5-6-31 and 32 on S. bdy. of Tp., heretofore described
	Thence I run
	N.0°04'W. bet. secs. 31 and 32
	Over mountainous land
	Descending on 33° slope in dense undergrowth
34.60	Hobble Creek, 12 lks. wide, flows S.75°W. in bottom of narrow rocky canon, 1200 ft. below cor.
35.00	Begin ascent on 33° slope
36.15	Old Government dug-way road, runs E. and W.
40.00	Set a sandstone 18x7x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
60.00	Slope becomes broken and covered with scrubby mountain mahogany timber
80.00	Set a sandstone 18x10x6 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
	A mountain mahogany tree, 6 ins. diam., bears N.84°15' E. 32 lks. dist., marked T 6 S R 5 E S 29 B T
	No other trees within limit; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	This cor. stands 1170 ft. above creek
	Land, mountainous
	Soil; rocky and gravely; 3rd and 4th rate
	Timber, scrubby mountain mahogany, and a few pines on

SUBDIVISION OF T.6 S. R.3 E.

CHAINS.

S. side of creek

Oak brush and thorny undergrowth

Mountainous land, 80.00 chs.

May 23, 1910.

May 23: At 8h 10m a.m., l m t, I set off 40°16'N. on the lat. arc, 30°42'17"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

East on a random line bet. secs. 29 and 32

40.00 Set temp. ¼ sec. cor.

80.06 Intersect N. and S. line 16 lks. N. of cor. of secs. 28-29-32 and 33

Thence I run

N.89°53'W. on a true line bet. secs. 29 and 32

Over mountainous land

Ascending on rolling N. slope in timber, and undergrowth

19.00 Top of spur ridge, projects N.W. 150 ft. above cor.; desc.

33.77 Foot of slope, bears N. and S., 190 ft. below spur

J.F.Averett's fence bears N.30°W. and S.30°E.

Enter cultivated land on bench sloping W.

37.27 Fence, bears N.70°E. and S.70°W.; leave cultivated land

Descend on N.W. slope

40.00 Set a sandstone 17x13x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which

A pine tree, 16 ins. diam., bears S.50°55'W. 16 lks. dist., marked ¼ S 32 B T

A pine tree, 6 ins. diam., bears N.10°37'W. 45 lks. dist., marked ¼ S 29 B T

Descent becomes abrupt on N.W. slope

46.60 Rabbit Creek, 10 lks. wide, flows S.30°W. in bottom of narrow canon, 200 ft. below field

Heavy timber, bears parallel to creek

48.31 Old road, runs parallel to creek; asc. abruptly

48.50 Top of spur ridge, 60 ft. high, projects S.; desc.

50.40 Dry wash, drains S.35°S. in hollow 20 ft. deep

SUBDIVISION OF T. 6 S. R.5 E.

CHAINS.	
58.00	Begin abrupt ascent in slide rock
75.00	Spur ridge, projects S.E.; ascent becomes gradual
	Enter mahogany timber, bears N. and S.
80.06	The cor. of secs. 29-30-31 and 32
	This cor. stands 800 ft. above hollow
	Land, mountainous
	Soil; rocky and gravely wash; 2nd to 4th rate
	Timber, aspen, pine, and mountain mahogany; dense oak brush and thorn undergrowth
	Mountainous land, 80.06 chs.
	May 24: at this cor. I set off 30°43'N. on the decl. arc and at 11h 57m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°16'N.
	West on a random line bet. secs. 30 and 31
31.34	Intersect W. bdy. of Tp. 7 lks. S. of cor. of secs. 25-30-31 and 36, which is a snadstone firmly set, marked, and witnessed as described by the surveyor general
	Thence I run
	S.89°53'E. on a true line bet. secs. 30 and 31
	Over mountainous land
	Ascending abruptly to
19.00	Top of spur ridge, projects S.15°W., 225 ft.above cor.
	Begin abrupt descent in mahogany timber
31.34	The cor. of secs. 29-30-31 and 32
	This cor. stands 135 ft. below top of spur ridge
	Land, mountainous
	Soil; rocky and gravely; 4th rate
	Timber, scrubby mountain mahogany, scattering
	Mountainous land, 31.34 chs.
	N.0°04'W. bet. secs. 29 and 30
	Over mountainous land
	Ascending abruptly in timber

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
6.00	Top of spur ridge, projects S.E.,150 ft. above cor.
	Leave timber and continue along steep broken E. slope
	Descending
11.50	Hollow, 70 ft. deep, drains E.; ascending
20.00	Top of spur ridge, 60 ft. high, projects E.; descending
26.00	Hollow, 50 ft. deep, drains E.; ascending
28.70	Top of spur ridge, 50 ft. high, projects E.; descending
35.00	Hollow, 50 ft. deep, drains E.; ascending
40.00	Set a limestone 18x10x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
41.00	Top of spur ridge, 60 ft. high, projects E.; desc.
48.00	Hollow, 60 ft. deep, drains E.;ascend
56.05	Top of spur ridge, 60 ft. high, projects E.; descend
67.50	Hollow, 50 ft. deep, drains E.; ascending
71.33	Top of spur ridge, 70 ft. high, projects E.; desc.
73.50	Enter dense aspen timber, bears N. and S.
80.00	Set a sandstone 17x8x6 ins.,11 ins. in the ground for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges; from which
	An aspen tree, 4 ins.diam., bears N.34°30'W. 11 lks. dist., marked T 6 S R 5 E S 19 B T
	An aspen tree, 4 ins.diam., bears S.20°24'W. 18 lks. dist., marked T 6 S R 5 E S 30 B T
	An aspen tree, 4 ins.diam., bears S.79°20'E. 15 lks. dist., marked T 6 S R 5 E S 29 B T
	An aspen tree, 4 ins.diam., bears N.32°51'E. 9 lks. dist., marked T 6 S R 5 E S 20 B T
	This cor. stands at about same elevation as cor. of secs 29-30-31 and 32
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, mahogany and aspen
	Mountainous land, 80.00 chs.
	May 24, 1910.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	May 25: at 7h 56m a.m., l m t, I set off 40°16'30"N. on the lat. arc, 20°53'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
	S.89°53'E. on a random line bet. secs.20 and 29
40.00	Set temp. ¼ sec. cor.
80.10	Intersect N. and S. line 16 lks. S, of cor. of secs. 20-21-28 and 29
	Thence I run
	West on a true line bet. secs. 20 and 29
	Over mountainous land
	Descending abruptly in timber
3.15	Stream, 5 lks.wide, flows S.60°W. 60 ft. below cor.
	Thence along S. slope to
8.00	Enter flat bottom of gulch, bears N.W. and S.E.
13.45	Dry wash, drains S.
14.00	Begin ascent
16.50	Top of spur ridge, 25 ft. high, projects S.; desc.
20.75	Stream, 5 lks.wide, flows S. in hollow 50 ft. deep; asc.
26.25	Top of spur ridge, 75 ft. high, projects S.;descend
33.12	Stream, 4 lks. wide, flows S. in hollow, 80 ft. deep;asc.
39.00	Top of spur ridge, 65 ft. high, projects S.; desc. grad.
40.05	Set a sandstone 17x8x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears N.53°10'W. 3 lks. dist., marked ¼ S 20 B T
	An aspen tree, 3 ins.diam., bears S.20°05'W. 26 lks. dist., marked ¼ S 29 B T
43.15	Dry run, 15 ft. deep, drains S.E.; asc. on even slope to
80.10	The cor. of secs. 19-20-29 and 30
	This cor. stands 665 ft. above the ¼ sec. cor.
	Land, moutainous
	Soil; gravely wash; 2nd and 3rd rate
	Timber, small aspen of very dense growth
	Mountainous land, 80.10 chs.

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	N.89°53'W on a random line bet. secs. 19 and 30
31.32	Intersect W. bdy. of Tp. 6 lks. N. of cor. of secs. 19-24-25 and 30, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general
	Thence I run
	East on a true line bet, secs. 19 and 30
	Over mountainous land
	Ascending to
14.20	Top of sharp ridge, bears N. and S., 330 ft. above cor.
	Enter timber, bears N. and S. and begin abrupt descent
31.32	The cor. of secs. 19-30-29 and 30
	This cor. stands 330 ft. below ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense growth of small aspen
	Mountainous land, 31.32 chs.
	May 25: at this cor. I set off 20°54'N. on the decl. arc and at 11h 57m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°16'30"N.
	N.0°04'W. bet. secs. 19 and 20
	Over mountainous land
	Along steep E. slope in dense aspen timber and brake
13.00	Dry wash in hollow 40 ft. deep, drains E.;asc. gradually
20.50	Top of spur ridge, projects E. 50 ft. above hollow;desc.
36.45	Hollow, 55 ft. deep, drains E.
40.00	Set a sandstone 16x9x7 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears N.63°15'E. 11 lks. dist., marked ¼ S 20 B T
	An aspen tree, 4 ins.diam., bears N. 81°30'W. 6 lks. dist., marked ¼ S 19 B T
45.50	Top of spur ridge projecting E. 90 ft. above hollow;desc.
59.30	Stream, 2 lks. wide, flows E. in hollow 50 ft. deep;asc.

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CHAINS.	
65.00	Spur ridge, projects E. 60 ft. above hollow; thence on broken E. slope; leave timber, bears E. and W.
75.50	Top of low divide ridge bears E. and W.; begin gradual desc.
80.00	Set a sandstone 16x8x6 ins., 11 ins. in the ground for cor. of secs. 17-18-19 and 20, marked with 3 notches on S. and 5 notches on E. edges; raised a mound of stones 3 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	This cor. stands 250 ft. above the cor. of secs. 19-20-29 and 30
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense growth of small aspen
	Mountainous land, 80.00 chs.
	May 25, 1910.
	May 26: at 7h 30m a.m., l m t, I set off 40°17'00"N. on the lat. arc, 21°04'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
	East on a random line bet. secs. 17 and 20
40.00	Set temp. ¼ sec. cor.
79.90	Intersect N. and S. line 7 lks. S. of 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
	Descending
7.15	Bottom of hollow, drains S. 70 ft. below cor.; ascend
12.00	Top of spur ridge, 40 ft. high, projects S.; descend
16.90	Bottom of hollow, drains S., 50 ft. below spur ; ascend
29.00	Top of spur ridge, projects S. 100 ft. above hollow; descend abruptly to
35.06	Dry wash in hollow, 75 ft. below spur, drains S.; ascend
39.95	Set a sandstone 16x8x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
44.35	Top of spur ridge, 80 ft. above wash, projects S.;desc.
48.00	Spring branch, 2 lks. wide, flows S.30°E. in hollow 45 ft. deep, from spring 2 chs. above; begin abrupt ascent
61.33	Top of divide ridge, bears N.10°W. and S.15°E., 250 ft. above hollow; desc. abruptly
69.90	80 ft. below ridge; bottom of hollow draining N., about 3.50 chs. N. of head; ascending
79.90	The cor. of secs. 17-18-19 and 20
	This cor. stands 100 ft. above hollow
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, a few patches of aspen brake
	Mountainous land, 79.90 chs.
	May 26: at this cor. I set off 21°05'N. on the decl. arc and at 11h 57m a.m.,1 m t, observe the sun on the meridian; the resulting lat, is 40°17'00"N.
	West on a random line bet. secs. 18 and 19
31.06	Intersect W. bdy. of Tp. at cor. of secs. 13-18-19 and 24, which is a quartzite stone firmly set, marked, and witnessed as described by the surveyor general
	Thence I run
	East on a true line bet. secs. 18 and 19
	Over mountainous land
	Descending gradually on steep N, slope in timber
5.05	Dry wash in hollow, drains N.E.; ascending
11.00	Top of spur ridge, projects N.E.; begin abrupt descent on N.E. slope
19.10	Head of hollow draining N.30°E., 120 ft. below spur; ascending to
25.00	Top of spur ridge, projects N.; 60 ft. above hollow
	Descend and leave timber
31.06	The cor. of secs. 17-18-19 and 20

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	This cor. stands 50 ft. below spur
	Land, mountainous
	Soil; gravely wash and bowlders; 3rd rate
	Timber, small aspen of dense growth
	Mountainous land, 31.06 chs.
	N.0°04'W. bet. secs. 17 and 18
	Over mountainous land
	Ascending gradually on E. slope
4.00	Begin abrupt descent on N.E. slope in timber
21.24	Stream, 3 lks.wide, flows N.30°E., 190 ft. below cor.
	Thence along broken E. slope on gradual descent
32.64	Same stream, 3 lks. wide, flows N.15°W.; asc. gradually
40.00	Set a sandstone 18x16x7 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears S.68°26'W. 9 lks. dist., marked ¼ S 18 B T
	An aspen tree, 4 ins.diam., bears N.44°25'E. 4 lks. dist., marked ¼ S 17 B T
53.00	Top of spur ridge, projects N.W.; descend
55.40	Wash in hollow, 40 ft. deep, drains N.W.; ascend
68.00	Spur ridge, projects N.75°W., 80 ft. above hollow
	Desc. on N.W. slope to
77.50	Leave timber and enter open gulch, 100 ft. below spur
80.00	Set a sandstone 16x7x8 ins.,11 ins. in the ground for cor. of secs. 7-8-17 and 18, marked with 4 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticabe
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous land, 80.00 chs.
	N.89°57'E. on a random line bet. secs. 8 and 17

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line at cor. of secs. 8-9-16 and 17
	Thence I run
	S.29°57'W. on a true line bet. secs. 8 and 17
	Over mountainous land
	Ascending in timber
13.00	Top of spur ridge, projects N.30°W., 120 ft. above cor.
	Descending
35.46	Stream, 4 lks.wide, flows N.35°W. in gulch 160 ft. below spur; ascending
40.04	Set a sandstone 18x10x6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 4 ins.diam., bears S.6°45'E. 38 lks. dist., marked ¼ S 17 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
52.18	Top of spur ridge, projects N.30°W., 160 ft. above stream; descending
65.00	Descent becomes gradual, bears N.W. and S.E.
75.00	Leave timber, bears S.W. and N.W.
80.08	The cor. of secs. 7-8-17 and 18
	This cor. stands 200 ft. below ridge
	Land, mountainous
	Soil: gravely wash; 3rd rate
	Timber, aspen and scattering pine
	Mountainous land, 80.08 chs.
	May 26, 1910.

May 27: at 7h 35m a.m., l m t, I set off 40°18'00"N. on the lat. arc, 31°14'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

West on a random line bet. secs. 7 and 18

30.70 Intersect W. bdy. of Tp. 04 lks. N. of cor. of secs. 7-12-13 and 18, which is a quartzite stone firmly set,

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
	marked, and witnessed as described by the surveyor general
	Thence I run
	N.89°55'E. on a true line bet. secs. 7 and 18
	Over mountainous and heavily timbered land, and undergrowth
	Descending on N. side of stream on broken S. slope
6.00	Enter hollow, bears N.W. and S.E , 50 ft. below cor.
6.83	Wash, drains S.60°E.; ascend
9.10	Top of spur ridge, 40 ft. high, projects S.20°E.; desc.
11.15	Enter open gulch; leave timber, bears N.60°E. and S. 60°E.; thence on gradual descent
12.60	Stream, 6 lks.wide, flows N.60°E.
19,53	Same stream, flows S.70°E.
20.88	Same stream, 6 lks. wide, flows N.E.
26.32	Stream, 3 lks. wide, flows N.25°E.
30.70	The cor. of secs. 7-8-17 and 18
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen, mostly of small size
	Aspen brake and undergrowth
	Mountainous and heavily timbered land, 30.70 chs.
	N.0°04'W. bet. secs. 7 and 8
	Over mountainous land
	Descending, in timber and undergrowth
8.15	Stream, 8 lks. wide, flows N.E. in bottom of gulch, 40 ft. below cor.; begin abrupt ascent
20.50	Top of spur ridge, projects N.70°E., 130 ft. above stream; desc. along abrupt E. slope on side of canyon
36.20	Bottom of hollow, drains N.75°E., 90 ft. below spur;asc.
40.00	Set a sandstone 18x9x6 ins.,12 ins. in the ground for ¼ sec. cor.,marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
47.00	Top of spur ridge, projects N.75°E., 100 ft. above hol-

SUBDIVISION OF T.6 S. R. 5 E.

CHAINS.	
	low; descending
64.10	Bottom of ravine draining N.75°E., 90 ft. deep
	Thence over steep E. slope to
80.00	Set a sandstone 18x8x6 ins., 12 ins. in the ground for cor. of secs. 5-6-7 and 8, marked with 5 notches on S. and E. edges; from which
	A pine tree, 10 ins.diam., bears N.51°35'E. 17 lks. dist., marked T 6 S R 5 E S 5 B T
	A pine tree, 7 ins.diam., bears S.88°55'E. 24 lks. dist., marked T 6 S R 5 E S 8 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous
	Soil; rocky and gravely; much slide rock; 4th rate
	Timber, small aspen brake and scattering pines
	Dense undergrowth
	Mountainous land, 80.00 chs.
	May 27: at this cor. I set off 21°15'N. on the decl. arc and at 11h 57m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
	N.89°57'E. on a random line bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
80.14	Intersect N. and S. line 12 lks. N. of cor. of secs. 4-5-8 and 9
	Thence I run
	N.89°58'W. on a true line bet. secs. 5 and 8
	Over mountainous land
	Descending abruptly, through undergrowth
4.32	East Fork of Hobble Creek, 6 lks.wide, flows N. in narrow rocky canyon, 110 ft. below cor.
	Begin abrupt ascent on Flat Top Mountain
28.00	Top of abrupt ascent, bears N. and S., 740 ft. above creek; thence on gradual ascent on top of Flat Top Mountain

SUBDIVISION OF T.6 S. R.5 E.

CHAINS.	
37.00	Top of mountain, bears N. and S., 800 ft. above creek
40.07	Set a quartzite stone 18x8x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
54.00	Break to canon, bears N. and S.; begin abrupt descent on rocky slope
76.25	West Fork of Hobble Creek, 10 lks.wide, flows N. in bottom of narrow canon, 680 ft. below top of mountain Begin abrupt ascent in slide rock, bears N. and S.
79.75	Leave slide rock, bears N. and S.
80.14	The cor. of secs. 5-6-7 and 8
	This cor. stands 65 ft. above creek
	Land, mountainous
	Soil; gravely and rocky; 4th rate
	Timber, a few large pines on top of mountain,scattering
	Dense oak, larb, and thorn undergrowth
	Mountainous land, 80.14 chs.
	S.89°55'W. on a random line bet. secs. 6 and 7
30.72	Intersect W. bdy. of Tp. at cor. of secs. 1-6-7 and 12 heretofore described
	Thence I run
	N.89°55'E. on a true line bet. secs. 6 and 7
	Over mountainous and heavily timbered land,in undergrowth
	Along abrupt N. slope and gradual descent
5.00	Top of spur ridge, projects N.60°E.; begin abrupt descent on E. slope
30.72	The cor. of secs. 5-6-7 and 8
	This cor. stands 730 ft. below cor. of secs. 1-6-7 and 12
	Land, mountainous
	Soil; rocky and gravely; 4th rate
	Timber, aspen brake and a few pines, scattering
	Dense tangle of undergrowth
	Mountainous land, 30.72 chs.
	May 27, 1910.

SUBDIVISION OF T.6 S. R. 5 E.

CHAINS.	
	May 28: I run
	N.0°04'W. bet. secs. 5 and 6
	Over mountainous land
	Descending abruptly in timber, and dense undergrowth
6.44	West Fork of Hobble Creek, 10 lks. wide, flows N.W. in narrow canyon, 85 ft. below cor.; ascending abruptly
11.50	Top of spur ridge, projects W., 90 ft. above creek; desc.
33.28	Same stream, 10 lks. wide, flows N.30°E. in narrow canon Ascending; leave timber, bears parallel to creek
40.00	Set a sandstone 17x8x6 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
46.00	Ravine, 60 ft. deep, drains N.75°E.
60.80	Top of spur ridge, projects E., 370 ft. above creek; descend abruptly
73.00	Rocky break, 30 ft. high, bears N.E. and S.W.
77.00	Hollow, 90 ft. below break, drains E. Ascending on abrupt S.E. slope to
86.62	Intersect 1st St. Par. South and N. bdy. of Tp. 2.40 chs W. of the S.C. of secs. 31 and 32, heretofore described
	Set a sandstone 18x10x6 ins., 12 ins. in the ground for closing cor. of secs. 5 and 6, marked C C on S.; with 5 grooves on E. and 1 groove on W. faces; raised a mound of stones 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable.
	Land, mountainous
	Soil; gravely and rocky; 3rd and 4th rate
	Timber, aspen and pine
	Dense oak, maple, and thorn undergrowth
	Mountainous land, 86.62 chs.
	NOTE.- For test of adjustments of instrument see following book
	May 28, 1910.

GENERAL DESCRIPTION.

This township is all mountainous land, exceedingly rough, broken, and abrupt, and no part is suitable for cultivation excepting the small patch of rolling bench in sec. 33, which J.F.Averett is cultivating and using as a summer ranch. He is the only settler within the township.

The whole township is covered with a dense tangle of rank undergrowth of oak, wild cherry, rose, maple, thorn and aspen brake, and the larger area is covered with timber; but only a small portion of the timber has any commercial value, being mainly aspen of small size, while pine and spruce occur only in isolated patches and as scattering trees.

The township contains the fountain heads of Round Valley Creek and also of the two Hobble Creeks and is well watered. The ground is,in the main,fertile, furnishing rich summer pasture, though most of the land is so densely covered with brush and timber as to prevent material growth of grasses.

There are no mines nor quarries, nor do structural conditions tend to the belief that either such will be opened.

There were formerly passable roads into and crossing the township but such have, of late years, been allowed to become impassable, washed out by the stream they invariable followed, choked with brush and timber, and blocked by fallen trees, and no one seems to make further use of them.

There are no other improvements within the township.

Frederick W. Hanson

Compassman.

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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 .....

....., 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. 6 S., R. 6 E. ....., *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 ....., 19

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, (solemnly swear that, in pursuance of a contract received from _____, bearing date of th United States Surveyor General for _____ _____ day of _____, 19 , I have well, faithfully, and truly, in my ow proper person, and in strict conformity with the instructions furnished by the United States Survey General for _____, the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of _____

For final oath of deputy See book "U" T. 6 S., R. 6 E.

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

_____
United States Deputy Surve

Subscribed by said _____, and sworn to before me this _____ day of _____, 19

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, February 4, 19

The foregoing field notes of the survey of the Subdivisional lines of Townsh No. 6 South, Range No. 5 East of the Salt Lake Base and Meridian, Utah; also the resurvey of fractional S. and E. Bdys. of Township No. South, Range 4 East of the S.L.B.& M., Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Thomas Hull
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 off

_____
United States Surveyor Ge

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H.R.M.A.
G.N.
M.S.B.
45

4—679.

Filed July 22, 1910.

BOOK A-359

T.

FIELD NOTES

M. S. B.

OF THE SURVEY OF THE

SOUTH BOUNDARY

O F

TOWNSHIP NO. 6 SOUTH,

RANGE NO. 6 EAST,

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH,

AS SURVEYED BY

Frederick W. Hanson, Compassman
for Andrew P. Hanson, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *190* 5.

Survey commenced May 28, 1910., *190*

Survey completed May 29, 1910., *190*

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S. Bdy. High 2-67-92 Irving 28-82.

NAMES AND DUTIES OF ASSISTANTS.

Lewis McGuire,	Chainman.
Frank Curtis,	Chainman.
Harry Curtis,	Moundman.
Lionel Averett,	Moundman.
Harry Curtis,	Axman.
Lionel Averett,	Axman.
A.P.Hanson,	Flagman.

For preliminary affidavits see book "R" T. 6 S., R. 5 E.

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BOOK A-359

INDEX DIAGRAM.

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

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

Meanders Page .....

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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 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

.....

For Prelim Oaths see Bdys T C S R 5 C ....., *Chainman*

....., *Chainman*

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

.....

SEAL

.....

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

.....

....., *Moundman*

....., *Moundman*

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

.....

SEAL

.....

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

.....

....., *Axman*

....., *Axman*

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

.....

SEAL

.....

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

....., *Flagman*

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

.....

SEAL

.....

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SOUTH BOUNDARY OF T.6 S. R. 6 E.

CHAINS.	
	Survey commenced May 28, 1910, and executed with a Gurley Light Mountain transit 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 verniers of the latitude and declination arcs.
	The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, August 31, 1909.
	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 observations on Polaris, I proceed as follows:
	At my camp, which is located about 30.00 chs. due west from the $\frac{1}{4}$ sec. cor. bet. secs. 25 and 30 on E. bdy. of T.6 S. R.5 E., lat. 40°16'04"N., approx. long. 111°19'27"W., I set off 40°16'N. on the lat. arc, 21°28' "N. on the decl. arc and at 4h 31m p.m.,1 m t., determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5 chs. N. of my station.
	At 9h 04m p.m.,1 m t, I observe Polaris at lower culmination in accordance with the Manual of Instructions, sighting the star Delta Cassiopeia below the pole, and mark a point in the line thus determined on the stone set this day, 5 chs. N. of the transit.
	May 28, 1910.
	May 29: at 7h 35m a.m.,1 m t, I set off 40°16'N. on the lat. arc, 21°34' "N. on the decl. arc and mark a point in the meridian determined with the solar on the stone set the previous day 5 chs. N. of my station. The meridians thus determined by a.m. and p.

CHAINS.	
	M. solar observations agree respectively within 0°01' of arc with the meridian determined from Polaris, which falls between them, and I conclude that the adjustments the instrument are accurate.
	The magnetic bearing of the true meridian at 7h 30m a.m. is N.17°10'W.; the angle thus determined gives the magnetic declination 17°10'E.
	From the cor. of Tps. 6 and 7 S. Rs. 5 and 6 E., set by me May 3, 1910, and described in Book R., I run
	East bet, secs.6 and 31
	Over mountainous and heavily timbered land
	Ascending gradually
19.00	Ascent becomes abrupt along spur ridge, S.W. slope
33.00	Timber becomes aspen brake and cherry undergrowth
40.00	Set a sandstone 16x9x7 ins. 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	This cor. stands on top of spur ridge projecting W. and S.W. 300 ft. above Tp. cor.
	Descending
50.00	Brake changes to aspen timber
68.00	Descent becomes gradual on S.E. slope
77.50	Enter bottom of hollow, bears N. and S,280 ft. below ridge
80.00	Set a sandstone 18x10x7 ins.,12 ins. in the ground for cor. of secs. 5-6-31 and 32, marked with 5 notches on E. and 1 notch on W. edges; from which
	An aspen tree, 5 ins.diam., bears S.62°03'W. 35 lks. dist., marked T 7 S R 6 E S 6 B T
	An aspen tree, 8 ins.diam., bears N.60°25'W. 56 lks. dist., marked T 6 S R 6 E S 31 B T
	An aspen tree, 9 ins.diam., bears N.21°57'E. 34 lks. dist., marked T 6 S R 6 E S 32 B T
	An aspen tree, 4 ins.diam., bears S.64°55'E. 18 lks.

SOUTH BOUNDARY OF T.6 S. R.6 E.

CHAINS.	
	dist., marked T 7 S R 6 E S 5 B T
	Land, mountainous
	Soil; gravely; 3rd rate
	Timber, aspen ofsmall size and a few scattering pines
	Dense tangle of undergrowth
	Mountainous land, 80.00 chs.
	May 29: at this cor. I set off 21°35'N. on the decl. arc and at 11h 57m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°15'N.
	East bet. secs. 5 and 32
	Over mountainous and heavily timbered land
9.30	Dry wash, drains S.W.; begin abrupt ascent
40.00	An aspen tree, 4ins.diam., for ¼ sec. cor. I mark ¼ S 32 on N. side and 5 on S. side; from which
	An aspen tree, 6 ins.diam., bears S.31°12'E. 18 lks. dist., marked ¼ S 5 B.T
	An aspen tree, 8 ins.diam., bears N. 18°10'E. 16 lks. dist., marked ¼ S 32 B T
43.50	Top of spur ridge, projects N.W., 560 ft. above wash
	Begin abrupt descent; leave aspen timber, bears parallel to ridge, and enter pine timber scattering
58.52	Bottom of hollow, drains N., 325 ft. below ridge
	Ascending along broken N.W. slope to
79.80	Top of ridge, bears N.70°E. and S.70°W., 140 ft. above hollow; enter dense aspen timber, bears N.E. and S.W
80.00	Set a sandstone 16x13x11 ins.,11 ins. in the ground for cor. of secs. 4-5-32 and 33, marked with 4 notches on E. and 2 notches on W. edges; from which
	An aspen tree, 6 ins.diam., bears N.35°15'E. 31 lks. dist., marked T 6 S R 6 E S 33 B T
	An aspen tree, 9 ins.diam., bears S.51°40'E. 17 lks. dist., marked T 7 S R 6 E S 4 B T
	An aspen tree, 5 ins.diam., bears S.67°25'W. 34 lks. dist., marked T 7 S R 6 E S 5 B T

SOUTH BOUNDARY OF T.6 S. R.6 E.

CHAINS	
	An aspen tree, 6 ins.diam., bears N.47°00'W. 25 lks. dist., marked T 6 S R 6 E S 32 B T
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense aspen and scattering pine
	Mountainous and heavily timbered land, 80.00 chs.
	East bet. secs. 4 and 33
	Over mountainous and heavily timbered land
	Descending gradually to
4.50	Head of hollow, drains S.; ascending
12.50	Top of spur ridge, projects S.,100 ft. high; descend
23.00	Foot of slope, bears N. and S.,90 ft. below ridge
	Enter head of flat gulch draining southerly
	Thence on gradual ascent over rolling surface
40.00	Set a sandstone 18x8x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 12 ins.diam., bears N.54°10'E. 45 lks. dist., marked ¼ S 33 B T
	An aspen tree, 13 ins.diam., bears S.71°05'W. 22 lks. dist. marked ¼ S. 4 B T
44.00	Begin ascent, bears N. and S.
67.92	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x10x8 ins.,12 ins. in the ground for closing corner for secs. 4 and 33, marked C C with 3 grooves on W., 6 grooves on N. and S., and U I R on E., faces; from which
	An aspen tree, 10 ins.diam., bears S.68°04'W. 133 lks dist., marked T 7 S R 6 E S 4 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	From this closing corner the 128 mile corner on the boundary bears as follows, viz:
	N.32°15'W. 28.82 chs. to the 128 mile corner

May 28, 1910.

South Boundary T. 6 S., R. 6 E

Land, mountainous.

Soil, gravelly; 3d rate.

Timber, aspen.

Mountainous, or heavily timbered land 67.92 chs.

May 29, 1910.

Volume
#
R0359

BOOK A-359

BOUNDARIES OF T.6 S. R.6 E.

Latitudes, departures, and closing errors.

Line Designated.	True Bearing.	Distance	Latitudes. N.	Latitudes. S.	Departures. E.	Departures. W.
1st St.Par. S....	West	328.93	.....	.....	.....	328.93
West boundary....	South	485.96	.....	485.96	.....	.....
South boundary...	East	227.92	.....	.....	227.92	.....
East boundary, or	N.32°15'W.	28.82	24.37	.....	.....	15.37
	N.54°30'W.	24.30	14.11	.....	.....	19.78
west boundary of	N.31°45'W.	15.70	13.35	.....	.....	8.26
	N. 8°15'W.	16.00	15.83	.....	.....	2.30
Uintah Indian	N.46°30'W	10.10	6.95	.....	.....	7.32
	S.79°00'W.	2.40	.....	0.46	.....	2.35
Reservation.....	N.44°00'W	91.50	65.82	.....	.....	63.56
	N.65°00'W	29.60	12.51	.....	.....	26.83
	N.73°00'W	24.40	7.14	.....	.....	23.34
	N. 7°00'E.	26.00	25.81	.....	3.17	.....
	N. 5°45'E	14.60	14.53	.....	1.46	.....
	N.35°45'W	38.30	31.08	.....	.....	22.37
	N.47°30'E.	17.10	11.56	.....	12.61	.....
	N. 6°15'E	32.20	32.01	.....	3.51	.....
	N.45°00'E	17.80	12.59	.....	12.59	.....
	N.24°30'E	52.80	48.05	.....	21.90	.....
	N.38°45'E	27.20	21.21	.....	17.02	.....
	S.33°30'E	15.20	.....	12.67	8.39	.....
	S.53°30'E	64.80	.....	38.54	52.09	.....
	S.10°00'E	25.70	.....	25.31	4.46	.....
	N.70°45'E	37.80	12.46	.....	35.69	.....
	N.81°15'E	14.00	2.13	.....	13.84	.....
	S.77°00'E	22.50	.....	5.06	21.92	.....
	N.81°15'E	20.00	3.04	.....	19.77	.....
	N.86°45'E	13.00	0.74	.....	12.98	.....
	S.66°45'E	23.40	.....	9.24	21.50	.....
	N.12°15'E	20.60	20.13	.....	4.37	.....
	N. 7°45'W	14.60	14.47	.....	.....	1.97
	S.84°00'E	14.80	.....	1.55	14.72	.....
	N.12°00'E	26.00	25.43	.....	5.40	.....
	N.53°45'W	20.10	11.88	.....	.....	16.21
	N. 6°00'W	19.00	18.90	.....	.....	1.99
	N.43°45'W	8.50	6.14	.....	.....	5.88
	N.12°45'W	40.00	39.01	.....	.....	8.83
	N.17°45'E	26.00	24.76	.....	7.93	.....
	N.37°00'E	54.00	43.13	.....	32.50	.....
	N.46°30'E	1.78	1.21	.....	1.28	.....
Convergency.....	.....	.....	.....	.....	.....	0.41
Totals.....			580.35	578.79	557.02	555.69
			578.79	.....	555.69	.....
Errors in.....		Lat.	1.56	Dep.	1.33	.....

GENERAL DESCRIPTION.

For general description of this township see field notes of subdivision lines of this township.

Frederick W. Hanson

Compasseman.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Frederick W. Hanson Compassman for Andrew P. Hanson, ~~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 South and East bdys. of T. 6 S. R. 5 E. and South bdy. of T. 6 S. R. 6 E. S. L. B. & M. Utah showing the respective capacities in which they acted:

Lewis McGuire, Chainman.
Frank Curtis, Chainman.
Harry Curtis, Moundman.
Lionel Averett, Moundman.
Harry Curtis, Axman.
Lionel Averett, Axman.
A. P. Hanson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the South and East Boundaries of Township No. 6 South Range No. 5 East and South Boundary of Township No. 6 South Range No. 6 East 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

Lewis McGuire, Chainman.
Frank Curtis, Chainman.
Harry Curtis, Moundman.
Lionel Averett, Moundman.
Harry Curtis, Axman.
Lionel Averett, Axman.
A. P. Hanson, Flagman.

Subscribed and sworn to before me this 5th day of June, 1910

SEAL

Frederick W. Hanson
Compassman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson

I, Frederick W. Hanson, Compassman for United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward R. Anderson United States Surveyor General for Utah, bearing date of [illegible] day of May 19[illegible], I have well, faithfully, and truly, in my o[illegible] proper person, and in strict conformity with the instructions furnished by the United States Surve[illegible] General for Utah, the Manual of Surveying Instructions, and the laws of [illegible] United States, surveyed all those parts or portions of the South and East Boundaries of Township [illegible] South, Range 5 East and the South Boundary of Township [illegible] South, Range 5 East

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

Frederick W. Hanson
Compassman for
Andrew P. Hanson
United States Deputy Surve[illegible]

Subscribed by said Frederick W. Hanson, and sworn to before me this [illegible] day of [illegible], 1911.

Thomas Hill
U.S. Surveyor-Gen[illegible]
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 4, 1911.

The foregoing field notes of the survey of the South Boundary of Township No. [illegible] South, Range [illegible] East, the Salt Lake Base and Meridian, Utah,

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. [illegible] dated May 10, 19[illegible], having [illegible] critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor Gen[illegible]

I certify that the foregoing transcript of the field notes of the above-described surveys in [illegible] has been correctly copied from the original notes on file in this offic[illegible]

United States Surveyor Gen[illegible]

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Filed July 22,1910.

4—679.

BOOK A-359

U.

M.73.

FIELD NOTES

OF THE SURVEY OF THE

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

O F

TOWNSHIP NO.6 SOUTH

RANGE NO.6 EAST

Of the SALT LAKE BASE AND *Meridian,*

STATE OF UTAH

AS SURVEYED BY

Andrew P.Hanson

Frederick W.Hanson, Commissioner for, *United States Deputy Surveyor,*

Under his Contract No. 289, *dated* May 18, *1905*

Survey commenced May 30, *19* 10

Survey completed June 5, *19* 10

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20-09-61

1-66-77

BOOK A-359

NAMES AND DUTIES OF ASSISTANTS.

Lewis McGuire.	Chainman.
Frank Curtis	Chainman.
Harry Curtis,	Rounduman.
Lionel Averett	Rounduman.
Harry Curtis,	Axman.
Lionel Averett,	Axman.
A.P.Hanson,	Flagman.

For preliminary affidavits see book "S" Tp.6 S., R. 5 E.

BOOK A-359

INDEX DIAGRAM.

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainma*

..... *Chainma*

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

SEAL

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

..... *Moundma*

..... *Moundma*

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

SEAL

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

..... *Axma*

..... *Axma*

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

SEAL

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

..... *Flagm*

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

SEAL

6—151

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	Survey commenced May 30, 1910, and executed with a Gurley Light Mountain transit with solar attachment:
	Note:- For further description of transit and complete test of adjustments, see field notes of S. bdy. of this Tp., Book T, under date of May 28-29. Being confident the adjustments are still in good condition I consider it unnecessary to repeat the tests at this time.
	At the cor. of secs. 5-6-31 and 32 on S. bdy. of T.6 S. R.6 E., heretofore described, I set off 40°15'N. on the lat, arc, 21°43'N. on the decl. arc and at 7h 32 m a.m.,1 m t, determine a meridian with the solar; thence I run
	N.0°01'E. bet. secs. 31 and 32
	Over mountainous and heavily timbered land
	Ascending gradually
21.00	Ascent becomes abrupt, bears N.E. and S.W.
40.00	An aspen tree, 4 ins.diam., for ¼ sec. cor. I mark ¼ S 31 on W. side and 32 on E. side; from which
	An aspen tree, 4 ins.diam., bears S.43°55'W. 13 lks. dist., marked ¼ S 31 B T
	An aspen tree, 4 ins.diam., bears S,83°00'E. 10 lks. dist., marked ¼ S 32 B T
50.00	Top of spur ridge, projects S.E., 540 ft. above sec. cor
	Thence along abrupt E. slope to
59.85	Top of ridge, bears N.30°E. and S.30°W.
	Begin descent on N.W. slope
80.00	Set a sandstone 18x7x6 ins.,12 ins. in the ground for cor. of secs. 29-30-31 and 32, marked with 1 notch on S. and 5 notches on E. edges; from which
	An aspen tree, 8 ins.diam., bears S.67°35'E. 30 lks. dist., marked T 6 S R 6 E S 32 B T
	An aspen tree, 8 ins.diam., bears N.69°50'E. 21 lks. dist., marked T 6 S R 6 E S 29 B T
	An aspen tree, 6 ins.diam., bears N.49°03'W. 35 lks.

CHAINS.	
	dist., marked T 6 S R 6 E S 30 B T
	An aspen tree, 7 ins.diam., bears S.24°30'W. 12 lks. dist., marked T 6 S R 6 E S 31 B T
	This cor. stands 160 ft. below ridge
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, dense growth of aspen, and scattering pine trees
	Mountainous and heavily timbered land, 80.00 chs.
	West on a random line bet. secs. 30 and 31
40.00	Set temp. ¼ sec. cor.
79.70	Intersect W. bdy. of Tp. 13 lks. N. of cor. of secs. 25-30-31 and 36, heretofore described
	Thence I run
	N.89°55'E. on a true line bet. secs. 30 and 31
	Over mountainous and heavily timbered land
	Over rolling S. slope and gradual ascent
5.05	Stream, 5 lks.wide, flows S.10°W. in hollow 20 ft. deep
10.70	Top of spur ridge, projects S., 30 ft. above hollow
	Descending
15.40	Dry wash in hollow 30 ft. deep, drains S.25°W.; ascend
20.00	Spur ridge, 40 ft. high, projects S.; descend
23.80	Dry wash, drains S.20°W. in hollow 20 ft. deep; ascend
37.20	Top of spur ridge, 60 ft. high, projects S.30°W.; desc.
	Leave timber, bears N. and S.
39.85	Set a sandstone 16x9x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
46.70	Enter timber, bears N. and S. in hollow draining S., 80 ft. below spur
49.00	Begin ascent, bears N. and S.
55.00	Top of spur ridge, 50 ft. high, projects S.; descend
61.35	Stream, 2 lks.wide, in hollow 50 ft. below ridge, drains S.55°W.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
62.00	Begin ascent
79.70	The cor. of secs. 29-30-31 and 32
	This cor. stands 140 ft. above stream
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 79.70 chs.
	May 30: at this cor. I set off 21°44'N. on the decl. arc and at 11h 57m a.m.,1 m t, observe the sun on the meridian; the resulting lat, is 40°15'30"N.
	N.0°01'E. bet. secs. 29 and 30
	Over mountainous and heavily timbered land
	Descending on broken slope
11.60	Dry run in ravine 100 ft. below cor., drains S.65°W.
	Ascending
14.00	Top of spur, 30 ft. high, projects S.W.; descending
20.70	Dry wash, drains S.W., in bottom of gulch 60 ft. below spur; begin ascent
40.00	Set a sandstone 16x10x5 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face;from which
	An aspen tree, 7 ins.diam., bears S.30°04'W. 30 lks. dist., marked ¼ S 30 B T
	An aspen tree, 9 ins.diam., bears S.63°55'E. 21 lks. dist., marked ¼ S 29 B T
57.25	Leave timber, bears E. and W.
68.75	Top of divide between Strawberry Creek and Hobble Creek bears N.W. and S.E., 2 chs. N.W. of main peak, 900 ft. above gulch; descend
	Enter timber
70.75	Enter pine timber
73.26	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 17x10x9 ins.,11 ins. in the ground for closing cor. of secs. 29 and 30, marked C C with 2 grooves on S., 5 grooves on E., and U I R on N. faces; from which

CHAINS.	
	A pine tree, 11 ins.diam., bears S.16°55'E. 81 lks. dist., marked T 6 S R 6 E S 29 B T
	A pine tree, 5 ins.diam., bears S.7°15'W. 69 lks. dist., marked T 6 S R6 E S 30 B T
	From this closing corner the ½ mile cor. bet. the 130 and 131 mile posts on the bdy. bears as follows,viz:
	N.73°00'W. 7.66 chs. to the ½ mile post, which is a pine post 5 ins.square, 2 ft. above ground, firmly set, marked, and witnessed as described by the surveyor general
	Land, mountainous
	Soil; gravely and rocky; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 73.26 chs.
	From the cor. of secs. 19-24-25 and 30 on W. bdy. of Tp. heretofore described, I run
	East bet, secs. 19 and 30
	Over mountainous and heavily timbered land
	Descending abruptly
9.55	Dry wash, drains S.20°W. in bottom of gulch 110 ft. below cor.; ascending abruptly
40.00	Set a sandstone 18x11x4 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 12 ins.diam., bears S.49°00'E. 15 lks. dist., marked ¼ S 30 B T
	An aspen tree, 12 ins.diam., bears N.20°00'E. 13 lks. dist., marked ¼ S 19 B T
58.70	Intersect west boundary of Uintah Indian Reservation
	Set a sandstone 18x10x5 ins.,12 ins. in the ground for closing cor. of secs. 19 and 30, marked C C with 1 notch on W., 2 notches on S., and U I R on E. faces; from which
	An aspen tree, 16 ins.diam., bears S.52°20'W. 7 lks. dist., marked T 6 S R 6 E S 30 B T

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	An aspen tree, 12 ins.diam., bears N.59°35'W. 120 lks dist., marked T 6 S R6 E S 19 B T
	From this closing cor. the ½ mile cor. bet, the 130 and 131 mile corners on the bdy. bears as follows, viz: S.7°00'W. 0.42 chs. to angle cor.; thence S.73°00'E. 14.00 chs. to ½ mile cor., heretofore described
	This cor. stands 900 ft. above bottom of gulch
	Land, mountainous
	Soil; gravely wash; 3 rd rate
	Timber, aspen
	Mountainous and heavily timbered land, 58.70 chs.
	May 30, 1910.
	May 31: at 7h 20m a.m.,1 m t, I set off 40°15'N. on the lat. arc, 21°52'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4-5-32 and 33 on S. bdy. of Tp., heretofore described; thence I run
	N.0°02'E. bet. secs. 32 and 33
	Over mountainous and heavily timbered land
0.60	Begin descent
6.65	Bottom of hollow, 60 ft. deep, drains W.; ascend
20.00	Top of spur ridge, 150 ft. high, projects W.; descend
31.50	Bottom of hollow, 70 ft. below spur, drains W.; ascend
35.00	Timber becomes scattering, burnt, and fallen
40.00	Set a sandstone 18x7x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
49.00	Top of spur ridge, projects S.60°W., 160 ft. above hollow; descend
56.00	Enter timber, bears E. and W.
58.10	Head of hollow, 40 ft. deep, draining S.60°W.; ascending abruptly 35

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
80.00	Set a sandstone 16x9x8 ins.,11 ins. in the ground for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges; from which
	An aspen tree, 4 ins.diam., bears S.17°30'E. 16 lks. dist., marked T 6 S R 6 E S 33 B T
	An aspen tree, 4 ins.diam., bears S.44°20'W. 22 lks. dist., marked T 6 S R 6 E S 32 B T
	An aspen tree, 4 ins.diam., bears N.61°09'W. 9 lks. dist., marked T 6 S R 6 E S 29 B T
	An aspen tree, 4 ins.diam., bears N.32°56'E. 36 lks. dist., marked T 6 S R6 E S 28 B T
	This cor. stands 340 ft. above hollow
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few pine
	Mountainous and heavily timbered land, 80.00 chs.
	West on a random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. line at cor. of secs. 29-30-31 and 32
	Thence I run
	East on a true line bet. secs. 29 and 32
	Over mountainous and heavily timbered land
	Ascending
16.00	Top of ridge, bears N.30°E. and S.30°W.,180 ft. above cor.; descending
32.70	Bottom of hollow, drains S., 120 ft. below ridge
	Begin ascent on S.W. slope
40.04	Set a sandstone 17x9x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 6 ins.diam., bears N.19°25'E. 12 lks. dist., marked ¼ S 29 B T
	An aspen tree, 4 ins.diam., bears S.54°40'W. 27 lks. dist., marked ¼ S 32 B T
	May 31: at this cor. I set off 21°53'W. on the decl. arc

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	and at 11h 57m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°15'40"N.
80.08	The cor. of secs. 28-29-32 and 33
	This cor. stands 315 ft. above bottom of hollow
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and scattering pine
	Mountainous and heavily timbered land, 80.08 chs.
	East bet. secs. 28 and 33
	Over mountainous and heavily timbered land
	Ascending
7.36	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x10x8 ins.,12 ins. in the ground for closing cor. for secs. 28 and 33, marked C C with 3 grooves on W., 1 groove on S., and U I R on E. faces from which
	An aspen tree, 12 ins.diam., bears N.82°W. 77 lks. dist., marked T 6 S R 6 E S 28 B T
	An aspen tree, 7 ins.diam., bears S.63°40'W. 57 lks. dist., marked T 6 S R 6 E S 33 B T
	From this closing cor. the 129 mile cor. on the boundary bears as follows, viz:
	N.44°00'W. 3.36 chs. to mile cor. No. 129, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general
	This cor. stands 75 ft. above the sec. cor.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 7.36 chs.
	N.0°02'E. bet. secs. 28 and 29
	Over mountainous and heavily timbered land
	Ascending
7.62	Intersect west boundary of the Uintah Indian Reservation

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	Set a sandstone 18x6x6 ins.,12 ins. in the ground for closing cor. of secs. 28 and 29, marked C C with 2 grooves on S., 4 grooves on E., and U I R on N. face from which
	An aspen tree, 7 ins.diam., bears S.13°00'E. 24 lks. dist., marked T 6 S R 6 E S 28 B T
	An aspen tree, 6 ins.diam., bears S.42°50'W. 5 lks. dist., marked T6 S R 6 E S 29 B T
	From this closing cor. the 139 mile cor. on the bdy. bears as follows, viz:
	S.44°00'E. 7.25 chs. to mile cor. No. 139, heretofore described
	This cor. stands 100 ft. above the sec. cor.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and a few pine
	Mountainous and heavily timbered land, 7.62 chs.
	May 31, 1910.
	June 1: at 7h 57m a.m.,1 m t, I set off 40°20'N. on the lat. arc, 22°00'N. on the decl. arc and determine a meridian with the solar at the S.C. of secs. 31 and 32 on N. bdy. of T.6 S. R.6 E., set by me August 24, 1909 and described in Book "K", thence I run
	S.0°01'W. bet. secs. 5 and 6
	Over mountainous and heavily timbered land
	Ascending
20.00	Top of spur ridge, projects N.W., 120 ft. above cor.
	Thence along broken W. slope to
33.00	Begin gradual ascent, bears N.E. and S.W.
40.00	Set a sandstone 18x12x4 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 10 ins.diam., bears S.89°15'E. 28 lks. dist., marked ¼ S 5 B T
	An aspen tree, 13 ins.diam., bears N.77°35'W. 14 lks.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	dist., marked ¼ S 6 B T
75.20	Ascent becomes abrupt, bears N.E. and S.W.
80.00	Set a sandstone 18x10x5 ins.,12 ins. in the ground for cor. of secs. 5-6-7 and 8, marked with 5 notches on S. and E. edges; from which
	A pine tree, 18 ins.diam., bears N.67°35'E. 31 lks. dist., marked T 6 S R 6 E S 5 B T
	An aspen tree, 6 ins.diam., bears N.16°08'W. 30 lks. dist., marked T 6 S R 6 E S 6 B T
	An aspen tree, 10 ins.diam., bears S.73°38'W. 21 lks. dist., marked T 6 S R 6 E S 7 B T
	An aspen tree, 10 ins.diam., bears S.11°46'E. 55 lks. dist., marked T 6 S R 6 E S 8 B T
	This cor. stands 300 ft. above the standard cor.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine, heavy growth
	Mountainous and heavily timbered land, 80.00 chs.
	West on a random line bet. secs. 6 and 7
40.00	Set temp. ¼ sec. cor.
80.42	Intersect W. bdy. of Tp. 6.00 chs. N. of the cor. of secs. 1-6-7 and 12, heretofore described, from which I remove all references to secs. 6 and 7
	Set a sandstone 16x12x5 ins.,10 ins. in the ground for closing cor. of secs. 6 and 7, marked C C with 6 grooves on E., 1 groove on N., and 5 grooves on S. faces; from which
	A pine tree, 8 ins.diam., bears S.57°57'E. 22 lks. dist., marked T 6 S R6 E S 7 B T
	A pine tree, 10 ins.diam., bears N.9°33'E. 37 lks. dist., marked T 6 S R 6 E S 6 B T
	Thence I run
	East on a true line bet. secs. 6 and 7
	Over mountainous and heavily timbered land
	Along steep N. slope

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
4.00	Stream, 3 lks. wide, flows N.60°W. in bottom of gulch
	Begin abrupt ascent
40.21	Set a sandstone 16x8x7 ins.,10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	An aspen tree, 4 ins.diam., bears N.38°30'W. 8 lks. dist., marked $\frac{1}{4}$ S 6 B T
	An aspen tree, 9 ins.diam., bears S.20°38'W. 26 lks. dist., marked $\frac{1}{4}$ S 7 B T
73.00	Ascent becomes gradual, bears N.E. and S.W.
80.42	The cor. of secs. 5-6-7 and 8
	This cor. stands 650 ft. above the closing cor. on bdy.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine, heavy growth
	Mountainous land, 80.42 chs.
	June 1: at this cor. I set off 22°01'N. on the decl. arc and at 11h 57m a.m.,l m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
	S.0°01'W. bet. secs. 7 and 8
	Over mountainous and heavily timbered land
	Ascending
5.00	Top of spur ridge, projects N.60°W., 50 ft. above cor.
	Thence on gradual ascent on broken slope
40.00	Set a sandstone 18x9x4 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
	An aspen tree, 8 ins.diam., bears N.22°40'E. 11 lks. dist., marked $\frac{1}{4}$ S 8 B T
	An aspen tree, 10 ins.diam., bears N.29°50'W. 13 lks. dist., marked $\frac{1}{4}$ S 7 B T
46.00	Begin abrupt ascent, bears N.E. and S.W.
70.65	Top of slope, bears N.E. and S.W.; enter level top of divide ridge, 540 ft. above sec. cor.
	Leave timber, bears N.E. and S.W.
78.10	A shallow pond, 30 lks.diam.,

BOOK A-359

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
80.00	Set a sandstone 18x10x9 ins.,12 ins. in the ground for cor. of secs. 7-8-17 and 18, marked with 4 notches on S. and 5 notches on E. edges; from which
	An aspen tree, 15 ins.diam., bears S.50°25'W. 145 lks dist., marked T 6 S R 6 E S 18 B T
	An aspen tree, 8 ins.diam., bears N.73°26'W. 168 lks. dist., marked T 6 S R6 E S 7 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine and aspen
	Mountainous and heavily timbered land, 80.00 chs.
	June 1, 1910.
	June 2: from the cor. of secs. 7-8-17 and 18 I run
	West on a random line bet. secs. 7 and 18
40.00	Set temp. ¼ sec. cor.
80.40	Intersect W. bdy. of Tp. 6.06 chs. N. of the cor of secs 7-12-13 and 18, heretofore described, from which I remove all references to secs. 7 and 18
	Set a sandstone 26x10x6 ins., 19 ins. in a mound of stones 3 ft. base, 1½ ft. high on rocky bottom, for closing cor. of secs. 7 and 18, marked CC with 6 grooves on E., 2 grooves on N., and 4 grooves on S. faces; from which
	An aspen tree, 4 ins.diam., bears S.69°45'E. 120 lks. dist., marked T 6 S R 6 E S 18 B T
	An aspen tree, 5 ins.diam., bears N.37°00'E. 38 lks. dist., marked T 6 S R 6 E S 7 B T
	Thence I run
	East on a true line bet. secs. 7 and 18
	Over mountainous and heavily timbered land
	Ascending abruptly

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
40.20	Set a sandstone 16x10x7 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which An aspen tree, 8 ins.diam., bears N.55°40'W. 16 lks. dist., marked ¼ S 7 B T An aspen tree, 7 ins.diam., bears S.12°35'E. 30 lks. dist., marked ¼ S 18 B T
73.00	Top of slope, bears N.E. and S.W., 850 ft. above closing cor.; enter flat top of divide ridge
79.00	Leave timber, bears N. and S.
80.40	The cor. of secs. 7-8-17 and 18 Land, mountainous Soil; gravely wash; 3rd rate Timber, aspen and pine Mountainous and heavily timbered land, 80.40 chs.
	East bet., secs. 8 and 17 Over level land
6.06	Intersect west boundary of the Uintah Indian Reservation Set a sandstone 18x8x6 ins.,12 ins. in the ground for closing cor. of secs. 8 and 17, marked C C with 2 grooves on W., 4 grooves on S., and U I R on E. faces; raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. From this closing cor. the 133 mile cor. on the bdy. bears as follows, viz: S.24°30'W. 3.17 chs. to mile cor. No. 133, which is a post firmly set, marked, and witnessed as described by the surveyor general Land, level Soil; gravely; 2nd rate No timber.
	From the cor. of secs. 7-8-17 and 18 I run S.0°01'W. bet. secs. 17 and 18 Over level land
13.29	Intersect west boundary of the Uintah Indian Reservation

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	Set a sandstone 18x12x6 ins.,12 ins. in the ground for closing cor. of secs. 17 and 18, marked CC with 3 grooves on N., 1 groove on W., and U I R on S.faces; from which
	An aspen tree, 13 ins.diam., bears N.70°44'W. 63 lks. dist., marked T 6 S R 6 E S 18 B T
	No other trees within limit; raised a mound of stone 2 ft. base, 1½ ft. high, N. of cor.Pits impracticable
	From this closing cor. the 133 mile cor. on the bdy. bears as follows, viz:
	N.24°30'E. 11.43 chs.to mile cor.No.133, which is a pine post firmly set, marked, and witnessed as described by the surveyor general
	Land, level
	Soil; gravely wash; 2nd rate
	No timber
	June 2: at this closing cor. I set off 23°09'N. on the decl. arc and at 11h 58m a.m.,1 m t, observe the sun on the meridian; the resulting lat. is 40°18'N.
	From the cor. of secs. 13-18-19 and 24 on W.bdy.of Tp. heretofore described, I run
	East bet. secs. 18 and 19
	Over mountainous and heavily timbered land
	Descending to
3.00	Head of hollow, drains.N., 35 ft. below cor.
	Ascend along broken N.W. slope
40.00	Set a sandstone 18x8x6 ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 12 ins.diam., bears N.53°00'E. 31 lks. dist., marked ¼ S 18 B T
	An aspen tree, 12 ins.diam., bears S.77°38'W. 98 lks. dist., marked ¼ S 19 B T
	Leave timber, bears N.E. and S.W
50.25	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 17x10x8 ins.,11 ins. in the ground for closing cor. of secs. 18 and 19, marked CC with 1 groove on W., 3 grooves on S., and U I R on E. faces;

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	raised a mound of stones 2 ft. base, 1½ ft.high, W. of cor. Pits impracticable.
	From this closing cor. the 132 mile cor. on the bdy. bears as follows, viz: N.47°30'E. 3.70 chs. to angle cor.; thence N.6°15'E. 10.00 chs. to mile cor.No.132, which is a sandstone firmly set, marked, and witnessed as described by the surveyor general
	This cor. stands 440 ft. above hollow
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine and aspen, large open forest
	Mountainous and heavily timbered land, 50.25 chs.
	June 8: at 3h 50m p.m.,l m t, I set off 40°30'N. on the lat. arc, 22°11'N. on the decl. arc and determine a meridian with the solar at the S.C.of secs. 32 and 33 on N.bdy. of Tp.,heretofore described, thence I run
	S.0°02'W. bet. secs. 4 and 5
	Over mountainous and heavily timbered land
	Ascending gradually
40.00	Set a sandstone 17x8x7 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears N.47°30'W. 30 lks. dist., marked ¼ S 5 B T
	An aspen tree, 4 ins.diam., bears N.53°32'E. 26 lks. dist., marked ¼ S 4 B T
45.00	Top of spur ridge, projects E.,300 ft. above standard sec. cor.; descend gradually
61.00	Wash in hollow 60 ft. below spur, drains E.
63.00	Top of spur ridge, 25 ft. high, projects E.; descend
66.55	Wash in hollow 30 ft. deep, drains E.; thence on broken slope
74.35	Dry wash in hollow 30 ft. deep, drains E.;ascend
80.00	Set a sandstone 18x8x7ins.,12 ins. in the ground for cor. of secs. 4-5-8 and 9; marked with 5 notches on S. and 4 notches on E. edges; from which

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	An aspen tree, 7 ins.diam., bears S.24°32'E. 28 lks. dist., marked T 6 S R 6 E S 9 B T
	An aspen tree,12 ins.diam., bears S.38°02'W. 34 lks. dist., marked T 6 S R 6 E S 8 B T
	An aspen tree, 10 ins.diam., bears N.64°48'W. 52 lks. dist., marked T 6 S R 6 E S 5 B T
	An aspen tree, 10 ins.diam., bears N.24°50'E. 68 lks. dist., marked T 6 S R 6 E S 4 B T
	This cor. stands 45 ft. above wash
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 80.00 chs.
	June 2, 1910.
	June 3: at 7h 31m a.m.,l m t, I set off 40°19'N. on the lat. arc, 22°16'N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 4-5-8 and 9; thence I run
	West on a random line bet. secs. 5 and 8
40.00	Set temp. ¼ sec. cor.
80.00	Intersect N. and S. line at cor. of secs. 5-6-7 and 8
	Thence I run
	East on a true line bet. secs. 5 and 8
	Over mountainous and heavily timbered land
	Ascending
12,05	Old mill road, bears N. and S.
15.00	Top of divide ridge,bears N. and S., 100 ft. above cor.
	Begin abrupt descent
25.75	Descent becomes gradual 180 ft. below top of ridge, bears N. and S.
40.00	Set a sandstone 17x9x8 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	An aspen tree, 11 ins.diam., bears N.67°00'E. 26 lks. dist., marked ¼ S 5 B T
	An aspen tree, 18 ins.diam., bears S.24°50'E. 17 lks.

CHAINS.	
	dist., marked ¼ S 8 B T
58.50	Descent becomes abrupt, bears N. and S.
63.00	Descent becomes gradual
65.00	Small spring draining E., bears N. about 5 chs.
74.65	Old road from Wallsburg to Daniel's Canyon, bears N.W. and S.E.
80.00	The cor. of secs. 4-5-8 and 9
	This cor. stands 475 ft. below top of ridge
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and pine in about equal amounts, heavy growth
	Mountainous and heavily timbered land, 80.00 chs.
	S.0°02'W. bet. secs. 8 and 9
	Over mountainous and heavily timbered land
	Ascending over broken N.E. slope
14.45	Old road from Wallsburg to Daniel's Canyon, bears N.W. and S.E.
40.00	Set a sandstone 18x9x8 ins.,12 ins. in the ground for ¼ sec. cor, marked ¼ on W. face; from which
	An aspen tree, 4 ins.diam., bears N.19°58'E. 16 lks. dist., marked ¼ S 9 B T
	An aspen tree, 3 ins.diam., bears N.53°03'W. 9 lks. dist., marked ¼ S 8 B T
	June 3: at this cor. I set off 22°17'N. on the decl. arc and at 11h 58m a.m.,l.m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
80.00	Set a sandstone 17x10x6 ins.,11 ins. in the ground for cor. of secs. 8-9-16 and 17, marked with 4 notches on S. and E. edges; from which
	An aspen tree, 4 ins.diam., bears N.32°20'E. 42 lks. dist., marked T 6 S R 6 E S 9 B T
	An aspen tree, 5 ins.diam., bears N.35°48'W. 37 lks. dist., marked T 6 S R 6 E S 8 B T
	An aspen tree, 4 ins.diam., bears S.53°00'W. 48 lks.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	dist., marked T 6 S R 6 E S 17 B T
	An aspen tree, 5 ins.diam., bears S.10°00'E. 20 lks. dist., marked T 6 S R 6 E S 16 B T
	This cor. stands 320 ft. above the cor. of secs. 4-5-8 and 9
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and pine of heavy growth
	Mountainous and heavily timbered land, 80.00 chs.
	West bet. secs. 8 and 17
	Over mountainous and heavily timbered land
	Ascending gradually
21.60	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x7x5 ins.,12 ins. in the ground for closing cor. of secs. 8 and 17, marked C C with 5 grooves on E., 2 grooves on N., and U I R on W., faces; from which
	A pine tree, 7 ins.diam., bears N.22°00'E. 23 lks. dist., marked T 6 S R 6 E S 8 B T
	A pine tree, 3 ins.diam., bears S.67°46'E. 44 lks. dist., marked T 6 S R 6 E S 17 B T
	From this closing cor. the 134 mile cor. on the bdy. bears as follows, viz:
	N.53°30'W. 3.80 chs. to mile cor. No. 134, which is a pine post firmly set, marked, and witnessed as described by the surveyor general
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 21.60 chs.
	From the cor. of secs. 8-9-16 and 17 I run
	S.0°02'W. bet. secs. 16 and 17
	Over mountainous and heavily timbered land

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	Ascending
11.00	Top of spur ridge, projects E.,70 ft. above cor.
	Thence over rolling slope
15.87	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x12x4 ins.,12 ins. in the ground for closing cor. of secs. 16 and 17, marked C C with 3 grooves on N., 4 grooves on E., and U I R on S., faces; from which
	An aspen tree, 10 ins.diam., bears N.10°02'E. 16 lks. dist., marked T 6 S R 6 E S 16 B T
	An aspen tree, 3 ins.diam., bears N.38°55'W. 37 lks. dist., marked T 6 S R 6 E S 17 B T
	From this closing cor. the ½ mile cor. bet. mile cors. Nos. 134 and 135, bears as follows, viz:
	S.53°30'E. 9.40 chs. to the ½ mile cor. above described, which is a post firmly set, marked, and witnessed as described by the surveyor general
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 15,87 chs.
	June 3, 1910.
	June 4: at 7h 35m a.m., l m t, I set off 40°20'N. on the lat. arc, 22°24'N. on the decl. arc and determine a meridian with the solar at the S.C. of secs. 33 and 34 on N. bdy. of Tp.; thence I run
	S.0°02'W. bet. secs. 3 and 4
	Over mountainous land and through dense undergrowth
0.05	Dry wash in hollow, drains N.75°E.
	Begin abrupt ascent in scattering timber
21.50	Top of spur ridge, projects E. 280 ft. above cor.
	Thence along steep broken E. slope on gradual ascent
40.00	Set a sandstone 17x8x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	A pine tree, 8 ins.diam., bears N.71°43'W. 54 lks.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
	dist., marked ¼ S 4 B T
	A pine tree, 7 ins.diam., bears N.55°47'E. 57 lks. dist., marked ¼ S 3 B T
41.50	Begin abrupt descent
48.37	Stream, 3 lks.wide, flows E. in hollow, 320 ft. deep
	Ascend
76.00	Top of spur ridge, projects E. 275 ft. above stream
	Begin abrupt descent
80.00	Set a sandstone 17x9x6 ins.,11 ins. in the ground for cor. of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges; from which
	An aspen tree, 5 ins.diam., bears S.40°57'E. 46 lks. dist., marked T 6 S R 6 E S 10 B T
	An aspen tree, 7 ins.diam., bears S.43°33'W. 123 lks. dist., marked T 6 S R 6 E S 9 B T
	No other trees within limit;raised a mound of stones 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
	This cor. stands 90 ft. below top of spur
	Land, mountainous
	Soil; gravely wash and bowlders; 3 rd rate
	Timber, aspen and pine, scattering
	Dense oak, larb, and thorn undergrowth
	Mountainous land and dense undergrowth, 80.00 chs.
	West on a random line bet. secs. 4 and 9
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N. and S. line 7 lks. S. of cor. of secs. 4-5-8 and 9
	Thence I run
	S.89°57'E. on a true line bet. secs. 4 and 9
	Over mountainous land
	Descending in timber
39.00	Stream, 2 lks. wide, from N.W. turns E, in hollow
	Thence along stream, steep descent

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
35.00	Stream, turns S.70°E.; thence on S. slope on gradual descent
39.98	Set a sandstone 18x11x6 ins.,12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which An aspen tree, 4 ins.diam., bears N.17°30'E. 44 lks. dist., marked ¼ S 4 B T An aspen tree, 5 ins.diam., bears S.43°45'W. 30 lks. dist., marked ¼ S 9 B T Begin abrupt descent
42.20	Dry wash in hollow, drains S.20°E. 400 ft. below sec.cor Begin abrupt ascent; leave timber, bears N. and S.
49.50	Top of spur ridge, projects S.25°E., 140 ft. above hollow; descend on S.E. slope
79.96	The cor. of secs. 3-4-9 and 10 This cor. stands 360 ft. below top of spur Land, mountainous Soil; gravely wash; 3rd rate Timber, aspen and pine on W. ½ mile, dense undergrowth and brake on E. ½ mile Mountainous land, 79.96 chs. June 4: at this cor. I set off 22°24'N. on the decl. arc and at 11h 58m a.m., 1 m t, observe the sun on the meridian; the resulting lat. is 40°19'N.
	East bet. secs. 3 and 10 Over mountainous land Descending in bottom of hollow
3.61	Stream, 3 lks.wide, flows N.60°E. 30 ft. below cor. Ascending
13.50	Top of spur ridge, projects N.E., 70 ft. above stream Begin abrupt descent
22.75	Daniel's Creek, 15 lks. wide, flows N. in narrow canyon 100 ft. below spur; begin ascent
25.00	County road to Indian reservation, bears N. and S. Ascent becomes abrupt, bears N. and S.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.	
35.60	Road to sawmill, bears N.E. and S.W.
40.00	Set a sandstone 16x10x5 ins.,11 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which
	An aspen tree, 3 ins.diam., bears S.74°03'E. 20 lks. dist., marked $\frac{1}{4}$ S 10 B T
	An aspen tree, 3 ins.diam., bears N.81°45'W. 24 lks. dist., marked $\frac{1}{4}$ S 3 B T
49.70	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x8x4 ins.,12 ins. in the ground for closing cor. of secs. 3 and 10, marked CC with 4 grooves on W., 5 grooves on S., and U I R on E., faces; from which
	A pine tree, 26 ins.diam., bears S.57°55'W. 145 lks. dist., marked T 6 S R 6 E S 10 B T
	An aspen tree, 3 ins.diam., bears N.18°25'W. 110 lks. dist., marked T 6 S R 6 E S 3 B T
	From this closing cor. the $\frac{1}{2}$ mile cor. bet. 138 and 139 mile cors. bears as follows, viz:
	N.12°45'W. 11.72 chs. to $\frac{1}{2}$ mile cor. above named, which is a pine post properly set, marked , and witnessed as described by the surveyor general
	This cor. stands 460 ft. above bottom of canyon
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, pine and aspen, scattering
	Aspen brake and dense undergrowth
	Mountainous land, 49.70 chs.
	From the cor. of secs. 3-4-9 and 10 I run
	S.0°02'W. bet. secs. 9 and 10
	Over mountainous land
	Descending in scattering timber and dense undergrowth
3.68	Stream, 3 lks.wide, flows N.E. in bottom of hollow
	Ascending
22.75	Old road from Wallsburg to Daniel's Canyon, bears N.65°E and S.65°W. on top of spur ridge projecting E.,

SUBDIVISION OF T.6 S.R. 6 E.

CHAINS.	
	200 ft. above stream
	Thence along broken E. slope on gradual ascent
40.00	Set a sandstone 18x8x4ins. 12 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which
	An aspen tree, 5 ins.diam., bears N.87°57'W. 26 lks. dist., marked ¼ S 9 B T
	A pine tree, 7 ins.diam., bears N.51°00'E. 45 lks. dist., marked ¼ S 10 B T
62.50	Low spur ridge, projects E.; descend
70.40	Dry wash, drains E., 30 ft. below spur; ascend gradually
80.00	Set a sandstone 18x10x6 ins., 12 ins. in the ground for cor. of secs. 9-10-15 and 16, marked with 4 notches on S. and 3 notches on E. edges; from which
	A pine tree, 10 ins.diam., bears N.52°56'E. 92 lks. dist., marked T 6 S R 6 E S 10 B T
	An aspen tree, 8 ins.diam., bears N.16°35'W. 72 lks. dist., marked T 6 S R 6 E S 9 B T
	An aspen tree, 6 ins.diam., bears S.25°30'W. 112 lks. dist., marked T 6 S R 6 E S 16 B T
	An aspen tree, 5 ins.diam., bears S.50°39'E. 170 lks. dist., marked T 6 S R 6 E S 15 B T
	This cor. stands 400 ft. above the cor of secs. 3-4-9 and 10
	Land, mountainous
	Soil; gravely wash; 3rd rate
	Timber, aspen and pine, mainly thin and scattering
	Aspen brake, thorn and larb.undergrowth
	Mountainous land, 80.00 chs.
	June 4, 1910.
	June 5: from the cor. of secs. 9-10-15 and 16 I run N.89°57'W. on a random line bet. secs. 9 and 16
40.00	Set temp. ¼ sec. cor.
80.04	Intersect N. and S. line 7 lks. N. of cor. of secs. 8-9-16 and 17
	Thence I run

SUBDIVISION OF T.6 S. R. 6 E.

CHAINS.	
	East on a true line bet. secs. 9 and 16.
	Over mountainous and heavily timbered land
	Descending over broken slope
40.02	Set a sandstone 18x8x6 ins.,12 ins. in the ground for ¼ sec. cor.,marked ¼ on N. face; from which
	An aspen tree, 9 ins.diam., bears N.11°54'E. 27 lks. dist., marked ¼ S 9 B T
	An aspen tree, 15 ins.diam., bears S.37°35'E. 31 lks. dist., marked ¼ S 16 B T
80.04	The cor. of secs. 9-10-15 and 16
	This cor. stands 485 ft. below cor. of secs. 8-9-16 and 17
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 80.04 chs.
	East bet. secs. 10 and 15
	Over mountainous land
0.16	Dry wash, drains N. in open gulch
0.60	Begin ascent in timber
18.00	Spur ridge, projects N.30°E.,80 ft. high; descend
23.00	Head of hollow, drains N., 30 ft. deep; ascend
25.69	County road, bears N. and S.
30.00	Top of spur ridge, bears N. and S.,60 ft. above hollow
	Descend gradually; leave timber, bears N.E. and S.
38.50	Foot of slope, bears N.E. and S.W.; old road, bears S.W. and N.E.; enter N. end of flat meadow
39.19	Daniel's Creek, 5 lks.wide, flows N.; leave meadow; asc.
40.00	Set a sandstone 16x12x6 ins.,11 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; raised a mound of stones 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable.
	From this cor.,dwelling and store of Victor A. Friese

SUBDIVISION OF T.8 S. R.6 E.

CHAINS.

at S, end of meadow, bears S.3°41'E. 30.00 chs.

42.80 Enter timber, bears N. and S.

76.52 Intersect west boundary of the Uintah Indian Reservation

Set a sandstone 10x8x7 ins.,18 ins. in the ground for closing cor, of secs. 10 and 15, marked CC with 4 grooves on W., 4 grooves on S., and U I R on E.faces from which

a pine tree, 4 ins.diam., bears N.41°30'W. 11 lks. dist., marked T 6 S R 6 E S 10 B T

A pine tree, 3 ins.diam., bears S.47°35'W. 27 lks. dist., marked T 6 S R 6 E S 15 B T

From this closing cor. the 137 mile cor. on the bdy. bears as follows, viz:

S.13°00'W. 9.67 chs. to angle cor.; thence

N.84°00'W. 6.40 chs. to mile cor.No.137,

which is a sandstone properly set, marked, and witnessed as described by the surveyor general

This cor. stands 275 ft. above ¼ sec. cor.

Land, mountainous

Soil; gravely wash; 3rd rate

Timber, pine and aspen

Mountainous land, 76.52 chs.

June 5: at this cor. I set off 22°31'N. on the decl. arc and at 11h 58m a.m.,l m t, observe the sun on the meridian; the resulting lat. is 40°18'N.

From the cor. of secs. 9-10-15 and 16 I run

S.0°03'W. bet. secs. 15 and 16

Over mountainous and heavily timbered land

Ascending along hollow

9.55 Enter wash, from S., drains N.80°E.

5.25 Leave wash,turns S.E., and cross low spur to

11.33 Dry wash, drains N.E.; ascend abruptly

[illegible] Top of spur ridge, projects N.E.,115 ft. above wash

Thence over broken surface

SUBDIVISION OF T.6 S.R.6 E.

CHAINS.	
33.48	Old Government road to Indian Reservation, bears E. and W. in hollow draining E.
36.78	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 17x7x6 ins.11 ins. in the ground for closing cor. of secs. 15 and 16, marked CC with 3 grooves on N., 3 grooves on E., and U I R on S., faces; from which
	An aspen tree, 3 ins.diam., bears N.32°30'W. 36 lks. dist., marked T 6 S R 6 E S 16 B T
	An aspen tree, 4 ins.diam., bears N.32°28'E. 12 lks. dist., marked T 6 S R 6 E S 15 B T
	From this closing cor. the ½ mile cor. bet. mile cors. Nos. 135 and 136 bears as follows, viz:
	N.77°00'W. 19.26 chs. to the ½ mile cor. above named, which is a pine post firmly set, marked and witnessed as described by the surveyor general
	Land, mountainous
	Soil; gravely wash; 2nd rate
	Timber, aspen and pine
	Mountainous and heavily timbered land, 36.78 chs.
	June 5: at 3h 30m p.m., l m t, I set off 40°20'N. on the lat. arc, 22°53'N. on the decl. arc and determine a meridian with the solar at the S.C. of secs. 34 and 35 on N. bdy. of Tp., heretofore described, thence I run
	S.0°03'W. bet. secs. 2 and 3
	Over mountainous and heavily timbered land
	Ascending gradually
11.35	Intersect west boundary of the Uintah Indian Reservation
	Set a sandstone 18x11x5 ins.,12 ins. in the ground for closing cor. of secs. 2 and 3, marked CC with 1 groove on N., 4 grooves on W., and U I R on S., faces; from which
	An aspen tree, 4 ins.diam., bears N.8°35'E. 49 lks.

SUBDIVISION OF T.6 S. R.6 E.

CHAINS.

dist., marked T 6 S R 6 E S 2 B T

A pine tree, 8 ins.diam., bears N.41°33'W. 23 lks. dist., marked T 6 S R 6 E S 3 B T

From this closing cor. the ½ mile cor. bet. mile cors. Nos. 139 and 140, bears as follows, viz:

N.37°00'E. 12.69 chs. to the ½ mile cor. above named, which is a post firmly set, marked, and witnessed as described by the surveyor general

This cor. stands 50 ft. above the standard cor.

Land, mountainous

Soil; gravely wash; 2nd rate

Timber, pine and aspen

Mountainous and heavily timbered land, 11.35 chs.

I return to the meridian established August 24, 1909 from Polaris at the S.C. of secs. 35 and 36, T.5 S. R.5 E. At 5h 10m p.m., l m t, I set off 40°20'N. on tha lat. arc, 22°34'N. on the decl.arc and test the adjustments of my solar, finding it gives the same meridian as before, and adjustments correct.

June 5, 1910.

GENERAL DESCRIPTION.

This township is all mountainous land, exceedingly rough and broken, and all having a high elevation, lying along the westerly slope of the main divide of the Wasatch range. No part is suited for cultivation but the soil is quite fertile and is well watered, furnishing good summer pasture for stock, though much of the area is so heavily covered with timber, brake, and brush as to prevent any material growth of grasses.

In the northern portion of the township there is still considerable pine timber of excellent quality; the southern part contains mainly aspen with only isolated bunches and scattering trees of pine, fir, and spruce.

There is one settler in the township, Victor A.

Friese in sec. 15, who keeps a road house, supply store, stable, etc.

There are no improvements of any kind within the township except the County road in Daniel's Canyon, leading from Provo River valley to the Indian Reservation, which supports much travel and stock driving.

There are no quarries nor mines, nor indications that such will ever be opened.

Frederick W. Hanson
Compassman.

Note:

There being no notary public, or other officer authorized to administer oaths within a reasonable distance, at the beginning or ending of the surveys executed by me under this contract; therefore, in order to save time and expense, I administer the preliminary and final oaths myself.

Frederick W. Hanson Compassman.

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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 Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision Lines of T. 6 S. Rs. 5 and 6 East showing the respective capacities in which they acted:

Lewis McGuire, *Chainman.*
Frank Curtis, *Chainman.*
Harry Curtis, *Moundman.*
Lionel Averett, *Moundman.*
Harry Curtis, *Axman.*
Lionel Averett, *Axman.*
A. P. Hanson, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Frederick W. Hanson Compassman for Andrew P. Hanson, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision Lines of Townships No. 6 South Ranges No. 5 and 6 East 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

Lewis McGuire, *Chainman.*
Frank Curtis, *Chainman.*
Harry Curtis, *Moundman.*
Lionel Averett, *Moundman.*
Harry Curtis, *Axman.*
Lionel Averett, *Axman.*
A. P. Hanson, *Flagman.*

Subscribed and sworn to before me this 5th day of June, 1910.

SEAL

Frederick W. Hanson
Compassman

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Andrew P. Hanson

I, Frederick W. Hanson, Compassman for, 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 18th day of May, 1905, 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 United States, surveyed all those parts or portions of the Subdivision of Township N 6 South, Ranges 5 and 6 East

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

Frederick W. Hanson
Compassman
for Andrew P. Hanson
United States Deputy Su

Subscribed by said Frederick W. Hanson, and sworn to before me this 2 day of February, 1911.

SEAL

Thomas Hull
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Feb. 4,

The foregoing field notes of the survey of the Subdivision of Township No. 6 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah

executed by Frederick W. Hanson, Compassman for Andrew P. Hanson under his contract No. 289, dated May 18, 1905, havi critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

Thomas Hull
United States Surve G

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 o

United States Surveyor G

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