Volume

#

R0246

BOOK A-246

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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INDEX DIAGRAM.

Township 36 S, *Range* 3 W.

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PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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INDEX DIAGRAM.

Township 36 S, *Range* 2 W.

6	5	4	3	2	1
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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
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~~197~~ ~~201~~ ~~208~~ ~~209~~ 209

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195 199 203 205

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0—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....

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

.....

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

WE, ... and .....

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

.....

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

WE, ... and .....

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

.....

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

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INDEX DIAGRAM.

Township 37 S, *Range* 2 W.

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226 19	303 20	292 21	281 22	23	266 24 232
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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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INDEX DIAGRAM.

Township 38 S, Range 2 W.

243	243	242	240	240	239
323 6 397	5 384	4 376	3 367	2 357	1 328
396	395	383	375	366	356
324 7 394	8 383	9 374	10 365	11 355	12 329
393	392	382	373	364	355
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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen, that we will level the chain over even and uneven ground, and adjust the tally pins, either by striking or dropping the same; that we will report the true distances to all natural 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

_____

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

_____ Rodman

_____ Rodman

Subscribed and sworn to before me this _____

day of _____ 190

_____

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

_____ Axeman

_____ Axeman

Subscribed and sworn to before me this _____

day of _____ 190

_____

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

_____ Surveyor

Subscribed and sworn to before me this _____

day of _____ 190

_____

BOOK A-246

INDEX DIAGRAM.

Township 37 S, *Range* 5 W.

6	5	4 424	3 419	2	1
		428	423	417	
7	8	9 422	10 416	11	12
		428	422	416	
18	17	16 421	15 415	14	13
		427	420		
19	20	21 419	22 414	23	24
		426	413		
30	29	28 412	27	26	25
		425	412		
31	32 424	33 411	34	35	36

Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

.....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

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INDEX DIAGRAM.

Township 36 S, *Range* 6 W.

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446 7	495 8	483 9	475 10	468 11	459 12 444
494	494	483	475	467	458
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491	490	481	473	466	456
445 19	489 20	480 21	472 22	465 23	455 24 444
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445 30	487 29	478 28	471 27	463 26	453 25 444
446	447	448	449	450	451
445 31	486 32	477 33	470 34	462 35	452 36 443
443	443	443	443	443	443

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 over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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Township 37 S, *Range* 7 W.

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515 7 536	8	525	9	10	11	12
535	534		524			
516 18 533	17	523	16	15	14	13
532	532		522			
512 19 531	20	521	21	22	23	24
530	529		520			
512 30 528	29	519	28	27	26	25
527	527					
511 31 526	32		33	34	35	36
511	511					

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 over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

.....

We, ...and .....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

.....

We, ...and .....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

.....

....., *Flagman.*

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

SEAL

.....

.....

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Township 39 S, *Range* 8 W.

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563 18 640	17 625	16 614	15 602	14 589	13 579
638	637	624	613	601	588
564 19 636	20 623	21 612	22 600	23 587	24 579
635	634	622	611	599	586
565 30 633	29 621	28 610	27 598	26 585	25 579
632	631	620	609	596	584
566 31 630	32 619	33 608	34 595	35 583	36 579
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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

.....

.....

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

.....

.....

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

..... *Axman.*

..... *Axman.*

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

SEAL

.....

.....

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

..... *Flagman.*

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

SEAL

.....

.....

No. 3. B.

4—679.

BOOK A-246

FIELD NOTES

OF THE SURVEY OF

Panguitch and Kanab

Guide Meridian

Township 42 South, Between Ranges 5 and 6 West

Of the Salt Lake Base & Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

under his Contract No. 211, dated Oct 7th, 1896

survey commenced March 1st, 1897

survey completed March 5th, 1897

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BOOK A-246

Names and Duties of Assistants.

James E Beatty	Chainman
Ernest M Pratt	Chainman
Samuel C Lewis	Rodman
Frank L Goodwin	Flagman

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INDEX DIAGRAM.

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

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

Meanders Page .....

6—151

Preliminary Oaths of Assistants.

WE, Ernest M. Pratt, James E. Beatty and Frank L. Goodwin & Samuel C. Lewis 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 Tippecanoe & Kankakee Guide Meridian Tp. 32 S. & N. R. 5 & 6 W. of the 2d P.M. Ind. Ind. Ind.

Ernest M. Pratt, Chainman.

James E. Beatty, Chainman.

Frank L. Goodwin, Chainman.

Subscribed and sworn to before me this 1st day of April, 1897

Samuel C. Lewis Chainman.

SEAL

Alfred B. Lewis.
U. S. Dep. Sur.

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

6—151

Resurvey of Tangue Ch Gunde Meridian through T. 42 S. R. 5 and 6 W.

Survey commenced March 1, 1897 and executed with an L. R. Stratsburger transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake found correct and was approved by the surveyor general of Utah Jan. 26 1897

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

March 1 At the cor of T. 42 and 43 S. R. 5 and 6 W. latitude 37°07' N. longitude 112°26' W. I set off 37°07' N. on the latitude arc: 7°12' S. on the declination arc and at 4h 00m p.m. l.m.t determined with the solar a true meridian and mark a point thereon on a stone firmly set in the ground 500 chs N. of the cor

At 8h 35m p.m. l.m.t I observe Polaris at western elongation in accordance with manual of Instructions and mark a point on the line thus determined on a plug driven in the ground.

Comm. of Longitude at Fort Burn

Com. such N. of my station.

March 1 1807

March 21 At 9 o'clock A.M. I
lay off the Zenith of Polaris
1°35' to the East and mark this
true meridian thus determined
by cutting a small groove in
the stone at March 1, in which
the true meridian falls on
east of the mark determined
with the solar
At 9 h 20 m A.M. I set off
27'11" on the lat arc with a
the dist. arc: and mark a point
on the true meridian determined
with the solar by a cross cut
on the stone already set such
N. of my station. This mark falls
2.1m East of the true meridian
established by observation on
Polaris. The solar approaches
by formal observation de-
fine positions for true meridian
respectively about 2.0" East and 1.0"
East of the true meridian estab-
lished by the Polaris observation,
therefore I conclude the adjust-
ments of the instrument are
satisfactory.

The magnetic bearing of the
true meridian at 9 h 20 m is 11°11' N.
and the angle thus determined agrees
by the table page 1 given thereon
Magnetic declination - 1803.6.
The Polaris of Jos. and Ro
and N. which is disturbed by
the earth's gravitation has been
changed. Therefore I established
it from the bearing this morn
standing as follows
At 9 h 20 m P.M. 3 ft long 1 in of

Survey of Pangulch and Kanab Guide Meridian

Chain

24 mis in the ground (for cor of Ts 42 and 43 S. R5 and 6 W.) marked
T42 S. R5 W. S31 on N.E.
T43 S. R5 W. S6 on S.E.
T43 S. R6 W. S1 on S.W. and
T42 S. R6 W S36 on N.W faces
with 6 notches on each edge
from which
Cedar 16 mis diam bears N62° E. 85 lks dist.
marked T42 S. R5 W. S31 B.T.
Ceda 10 mis diam bears S10° E 220 lks dist.
marked T43 S. R5 W. S6 B.T.
Cedar 16 mis diam bears S65° W. 28 lks dist.
marked T43 S. R6 W. S1 B.T.
Ceda 8 mis diam bears N38° W. 40 lks dist.
marked T42 S. R6 W. S36. B.T. +
Preliminary to running the exterior of this township I run North on a blank line along the East bdy of secs 36; at 39.75 chs I find the 1/4 sec cor 26 lks E and at 80.00 chs I find no trace of cor of secs 25, 30, 31 and 36. I continue the line North 240.00 chs when I find a stake 1½ ins diam marked for cor of secs 13, 18, 19 and 24 bearing S62½° E 267 lks dist. Thence I continue my line North and at 5 miles 76.95 chs fall 349 lks W. of the cor of Ts 41 and 42 S. Rs 5 and 6 W.
As these townships have not been subdivided I survey the Pangulch and Kanab Guide meridian through T42 S beh Rs 5 and 6 W as follows.
March 2 1897

March 3: At 9 a.m. I mt Sech of 37°07' Nor the lat are 6°30' Dow
The declar and determined a true

Chains

meridian with the solar at the cor. of Ts 42 and 43 S. R 5 and 6 W. which I re-established & held for cors.
Thence I run
North between 31 and 36
Over mountainous land through scattering cedars and dense undergrowth ascending
20.00 Top of ridge bro E and W. 100 ft above cor. descend gradually
Difference bet measurements of 40.00 chs by two sets of chainmen is 14 lks: position of middle point by 1st set 39.93
by 2nd set 40.07 the mean of which is
40.00 Set a cedar post 3 ft long 4 ins sq 24 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which
Cedar 12 ins diam bears S 28° W. 272 lks dist
marked 1/4 S.B.T.
Cedar 10 ins diam bears S 13° E 160 lks dist.
marked 1/4 S.B.T.
Difference bet measurements of 80.00 chs by two sets of chainmen is 10 lks: position of middle point by 1st set 79.95
by 2nd set 80.05 the mean of which is
80.00 Set a cedar post 3 ft long 4 ins sq 24 ins in the ground for cor of secs. 25, 30, 31 and 36. marked
T 42 S. S 30 on N.E.
R 5 W. S 31 on S.E.
S 36 on S.W. and
R 6 W. S. 25 on N.W. faces with 2 notches on N and 1 notch on sides from which
Cedar 8 ins diam bears N 81° E 262 lks dist.
marked T 42 S. R 5 W. S 30 B.T.
no other trees within limits of

ding pits 18×18×12 ins in each sec
5½ ft dist and raise a mound
of earth 4 ft base 2 ft high
N. of cor.
Land mountainous
Soil sandy and rate
Timber cedar.
Dense undergrowth mountain
ous land and scattering cedar on 80.00 chs

Cont

North bet secs 25 and 30
descending through dense under
growth
17.00 descend abruptly.
Difference bet measurements
of 40.00 chs by two sets of chain
is 24 lks. position of middle
point by 1st set 39.88 chs.
by 2nd set 40.12 chs the mean
of which is
40.00 Set a cedar post 3 ft long 4 ins sq
with marked stone 24 ins in
the ground for 1/4 sec cor. marked
1/4 on N. face; dig pits 18×18×12
ins N. and S. of post 3 ft dist.
and raised a mound of earth
3½ ft base 1½ ft high W. of cor
thence over rolling land
Difference bet 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 cedar post 3 ft long 4 ins sq
with marked stone 24 ins in ground
for cor of secs 19, 24, 25 and 30 marked
T42S. S19 on N.E.
R5W. S30 on S.E.
S25 on S.W. and

Resurvey of Tangent and Ran at Lund Mud.

Claim R.6 N. 0 24 on N. W. face with 4 notches on N. and 2 notches on 2 edges: dig pits 18x18x12 in in each sec 5½ ft dist and raised a mound of earth 4 ft base 2 ft high N. of cor.
Land mountainous and rolling. Soil sandy and rate.
Timber scattering cedars.
Mountainous land or dense undergrowth on 80.00 chs.

North bet secs 19 and 20
Over rolling land through dense undergrowth ascending.
Difference bet measurement 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 cedar post 3 ft long 4 ins sq 24 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which
Pecker-wood bears N 35° E 36 lks dist. marked 1/4 S. B2.
Pecker-wood bears N 54° W 127 lks dist. marked 1/4 S. B3.
The old cor has been destroyed but a bearing tree remains which I identify.
Continue to ascend through dense undergrowth and scattering cedars.
Difference bet measurement of 80.00 chs by two sets of chainmen is 16 lks: position of middle point
by 1st set 80.09 chs
by 2nd set 79.91 chs the mean of which is
80.00 Set a cedar post 3 ft long 4 ins sq.

Chain's

set iron in the ground for corner
13, 18, 19 and 24 marked
T42 S. R18 on N.E.
R.5 W. R.19. on S.E.
R.24. on S.W. and
R6 W. R13 on N.W faces with
3 notches on N and W edges from which
Cedar 10 ins diam. bears N27½° E 167 lks dist.
marked T42 S. R5 W. R16. B.T.
Cedar 20 ins diam bears R79° E 335 lks dist.
marked T42 S. R5 W. R.19. B.T.
Cedar 12 ins diam bears R78½° W 30 lks dist.
marked T42 S. R6 W. R24 B.T.
Cedar 12 ins diam bears N53° W. 99 lks dist.
marked T42 S. R6 W. R13 B.T.
The old cor bears R62½° E 267 lks
dist. Identify the old corner and
bearing trees.

March 3: At this cor Set off
6°28' S. on the circle and at 0h
00m l.m.t. observed the sun on
the meridian. The resulting lat
is 37°10' N.
Land rolling
Soil sandy 2nd rate
Timber cedar.
Heavily timbered or dense undergrowth on 80.00 chs.

North bet secs 13 and 18
Gain rolling ascending dense
cedars and undergrowth.
37.00 Valley dry watercourse
Difference bet measurements of
40.10 chs by two sets of chainmen
is 16 lks.: position of middle point
by 1st set 39.92 chs
by 2nd set 40.08 chs the mean of which

Resurvey of Tanguish and Kanab Guide Meridian

Chains is.

40.00 Set a cedar post 3 ft long 4 ins of 24 ins in the ground for 1/4 sec cor. marked 1/4 S on N. face from which
Cedar 10 ins diam bears S 3° W. 48 lks dist. marked 1/4 S. B.T.
Cedar 10 ins diam bears N 70° E 26 lks dist. marked 1/4 S. B.T.
Found old bearing tree which I destroyed.
Ascend abruptly.

40.00 Ascend more gradually.
Difference bet measurements of 80.00 chs by two sets of chainmen is 10 lks. position of middle point
by 1st set 80.04½ chs.
by 2nd set 79.92½ chs the mean of which is.

80.00 Set a cedar post. 3 ft long 4 ins of 24 ins in the ground for cor of secs 7, 12, 13 and 18 marked
T42 S R7 on N. E.
R5 W. S. 18. on S. E.
S. 13. on S. W. and
R6 W. S. 12. on N. W. faces with 2 notches on N. and 4 notches on S. edges from which
Cedar 6 ins diam bears N 10° E. 56 lks dist. marked T42 S. R5 W. S. 7 B.T.
Cedar 9 ins diam bears S 68° E. 19 lks dist marked T42 S. R5 W. S. 18. B.T.
Cedar 8 ins diam bears S 33° W. 116 lks dist. marked T42 S. R6 W. S. 13. B.T.
Cedar 8 ins diam bears N 17° W. 29 lks dist marked T42 S. R6 W. S. 12 B.T.
The old cor has been destroyed
I destroyed a bearing tree which I found standing.
Land rolling and mountainous
Soil sandy and rocky.
Timber cedar.

Mountainous land heavily timbered or dense undergrowth on 8000 chs.
March 3-1897

March 5: At 8h 30m a.m. I left off 37°11' N on the lat. and 5°44' I on the dell. and determined a true meridian with the solar at the cor. of secs. 7, 12, 13 and 18
Thence I run
North bet. secs. 7 and 12
Over rolling land gradually ascending through tall cedars and undergrowth.
Difference bet. measurements of 40,00 chs by two sets of chainmen is 6 links: position of middle point
by 1st set 40,03 chs.
by 2nd set 39,97 chs the mean of which is
40,00. Set a cedar post 3 ft long 4 ins sq. 24 ins in the ground for 1/4 sec cor marked 1/4 on W. face from which
Pecan 10 ins diam bears N87°E. 43 lks dist. marked 1/4 S. B.T.
Pecan 10 ins diam bears S.33° W. 22 lks dist. marked 1/4 S.B.T.
Found no trace of old cor.
42,50 Top of ridge bears E and W.
Over rolling land descending
Difference bet. measurements of 80,00 chs by two sets of chainmen is 10 lks: position of middle point.
by first set 80,05 chs.
By second set 79,95 chs the mean of which is
80,00 Set a cedar post 3 ft long 4 ins sq. 24 ins in the ground for cor of secs 1, 6, 7 and 12 marked
T 42 S. R. 6 on N.E.

Chain

R5 W. S.7 on S.E.
S.12 on S. W and
R.6 W. S.1 on N.W. faces with 1 notch on N. and 5 notches on S. edge from which
Cedar 14 in diam bears S 40° E 5 lks dist. marked T42S. R5W. S.7. B.T.
Cedar 10 in diam bears S 43° E. 6 2 lks dist. marked T42S R5W S7 B.T.
Cedar 12 in diam bears S 71° W 36 2 lks dist. marked T42S. R6W. S.12. B.T.
Cedar 11 in diam bears N 32° W. 99 lks dist. marked T42S. R6W. S.1. B.T.
The old cor has been destroyed
Land rolling and mountainous
Soil sandy 2nd rate
Timber cedar.
Mountainous land heavily timbered and dense undergrowth on 80.00 chs.

North bet secs 1 and 6
Over rolling land though dense undergrowth.
Difference bet measurements of 40.00 chs by two sets of chainmen is 18 lks: position of middle point
by 1st set 39.91 chs
by 2nd set 40.09 chs the mean of which is
40.00 Set a cedar post 3 ft long 4 ins sq with marked stone 24 ins in the ground for 1/4 sec cor marked 1/4 Sec on N face: dig pits 18 x 18 x 12 ins N and S of post 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
60.00 Enter heavy cedars
Difference of measurements of 76.95 chs by two sets of chainmen is 14 links: position of middle point

Resurvey of August 1st and Kansas Gunda Meridian

Chain

by 1st set 77.02 chs by 2nd set 76.88 chs
the mean of which is
76.95 Tall 349 lks N. of old township cor described by the
Pecho cedar post 3 ft long 4 ins sq
24 ins in the ground for closing
cor of T 42 S. Rs 5 and 6 W. marked
C.P. T 42 S on S
R.5 W. S.6. on E and
R.6. W. S 1 on W faces with 6 grooves
on S.E. and W faces from which
Pecho 8 in diam bears S.30 2/3° E 104 lks dist
marked T 42 S R.5 W. S.6. B T
Pecho 10 ins diam bears S 63 1/4° W. 151 lks dist.
marked T 42 S. R.6 W. S 1 B T
I destroy all markings of old cor
pertaining to T 42 S. Rs 5 and 6 W.
Land rolling & mountainous
Soil sandy 2d rate, Timber cedar
Mountainous Land & heavy timber on 76.95 chs

General Description.

Townships 42 South Rs 5 and 6 W
are generally rolling table lands
cut by deep canons with
drainage to the south.
The land is well adapted to
grazing. Kansas Creek flows
south through the western part
of T 42 S R 6 W and affords a good
supply of water for irrigation

March 5th 1897

Alfred B Lewis.
U.S. Dep. Sur.

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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 Alfred B. Lewis, 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 Panguitch & Kanab Guide Meridian through Tps 42 S. R. 5 & 6 W. of the Salt Lake Base Meridian Utah, showing the respective capacities in which they acted:

James E. Beatty, Chainman.
Frank L. Goodwin, Chainman.
Ernest M. Pratt, Chainman ~~Moundman.~~
Samuel C. Lewis, Chainman ~~Moundman.~~
, Axman.
, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred B. Lewis, United States Deputy Surveyor, in surveying all those parts or portions of the Panguitch & Kanab Guide Meridian through Tps 42 South between Ranges 5 & 6 West of the Salt Lake Base and Meridian Utah of the base and 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 Utah.

James E. Beatty, Chainman.
Frank L. Goodwin, Chainman.
Ernest M. Pratt, Chainman ~~Moundman.~~
Samuel C. Lewis, Chainman ~~Moundman.~~
, Axman.
, Axman.
, Flagman.

Subscribed and sworn to before me this 31st day of August, 1897.

SEAL

Alfred B. Lewis
U. S. Dep. Sur.

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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 _____, 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____

_____

_____

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

_____

United States Deputy Surveyor.

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

SEAL

_____

_____

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 5th, 1898

The foregoing field notes of the survey of The Panguitch and Kanab Guide Meridian Township 42 South between Ranges 5 & 6 West of the Salt Lake Base & Meridian Utah

_____

_____

_____

executed by Alfred B Lewis

under his contract No. 211 dated October 9th, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B Blair

United States Surveyor General.

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

_____

United States Surveyor General.

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BOOK A-246

FIELD NOTES

OF THE SURVEY OF

South, West and North Boundary,

of

Township 42 South, Range 6 West

Of the Salt Lake Base & Meridian,

In The State of Utah.

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced March 6th, 1897

Survey completed March 10th, 1897

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BOOK A-246

Names and Duties of Assistants.

James E Beatty	Chainman
Ernest M Pratt	Chainman
Samuel C Lewis	Marksman
Frank L Goodwin	Flagman

BOOK A-246

INDEX DIAGRAM.

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

6	5	4	3	2	1
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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, James E. Beatty and Ernest M. Pratt do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

James E. Beatty, *Chainman.*

Ernest M. Pratt, *Chainman.*

Subscribed and sworn to before me this 1st day of April, 1897

SEAL

Alfred B. Lewis
U. S. Dep Sur

WE, Samuel C. Lewis and 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

Samuel C. Lewis, *Moundman.*

Moundman.

Subscribed and sworn to before me this 1st day of April, 1897

SEAL

Alfred B. Lewis
U. S. Dep Sur

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

Axman.

Axman.

Subscribed and sworn to before me this day of 189

SEAL

I, Frank L. Goodwin, 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

Frank L. Goodwin, *Flagman.*

Subscribed and sworn to before me this 1st day of April, 1897

SEAL

Alfred B. Lewis
U. S. Dep Sur

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South, West and North Bdys. T.42 S.R.6 W.; South and East Bdys. T.36 S. R.3 W.; South and East Bdys. T.36 S.R.2 W.; East South and West Bdys. T.37 S.R.2 W.; East, South and West Bdys. T.38 S.R.2 W.; South and West Bdys. T.36 S.R.4 W.; East Bdy. T.36 S.R.5 W.; South Bdy. T.36 S.R.4½ W. South and West Bdys. T.39 S.R.8 W. of the Salt Lake Base and Meridian Utah.

42A

A-246

South, West and North Bdys. T.42 S.R.6 W.; South and East Bdys. T.36 S. R.3 W.; South and East Bdys. T.36 S.R.2 W.; East, South and West Bdys. T.37 S.R.2 W.; East, South and West Bdys. T.38 S.R.2 W.; South and West Bdys. T.36 S.R.4 W.; East Bdy. T.36 S.R.5 W.; South Bdy. T.36 S.R.4½ W. South and West Bdys. T.39 S.R.8 W. of the Salt Lake Base and Meridian Utah.

42B

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South, West and North Bdys. T.42 S.R.6 W.; South and East Bdys. T.36 S. R.3 W.; South and East Bdys. T.36 S.R.2 W.; East, South and West Bdys. T.37 S.R.2 W.; East, South and West Bdys. T.38 S.R.2 W.; South and West Bdys. T.36 S.R.4 W.; East Bdy. T.36 S.R.5 W.; South Bdy. T.36 S.R.4½ W. South and West Bdys. T.39 S.R.8 W. of the Salt Lake Base and Meridian Utah.

42c

Salt Lake City Utah
Jan 26th 1847

There not being any Notary Public, Justice of the Peace or other officer capable of administering oaths within a distance of many miles; therefore in order to save expense & delay I administered the preliminary oath myself.

Alfred W. Lewis.
U. A. Rep. Nav.

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South L. boundary of T. 42 S. R. 6 W.

Chains.	
	Survey commenced March 6, 1897 and executed with a L. R. Strasburger transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30" of arc, which is also the least count of the verniers of the latitude and decl. arcs.
	For complete test of instrument refer to my observations made on March 1 and 2, 1897 described on the field notes of the survey of the Pauguitch & Tau at L. Ms. (See Book "A")
	I began at cor. of T. 42 and 43 S., Rs 5 and 6 W., which I reestablished March 2 1897.
	March 6; At 9h a.m. L.m.t. I set off 37°07'10" on the latitude arc, 5° 21' S. on the decl. arc and determined a true meridian with the solar, which concides with the meridian I established at this point March 2
	Thence I run
+	West on a true line bet. sec. 1 and 36 (Over rolling land through heavy cedars and dense brush.)
40.00	Set a cedar post 3 ft long 4 ins. sq., 24 ins in ground for 1/4 sec. cor., marked 1/4 S., on N. face. from which A cedar 11 ins. diam. bears S 42° W, 21 lks dist. Marked 1/4 S. B.T.
	A cedar 8 ins. diam. bears N 45° E 13 lks dist. Marked 1/4 S. B.T.
80.00	Set a cedar post 3 ft. long, 4 ins. sq. 24 ins. in ground for cor. of sec. 1, 2, 35 and 36. marked T. 42 S., S. 36, on N. E. R. 6 W., S. 1, on S. E.

Chains

T. 43 S., S. 2, on S. W. and
S. 35, on N. W. faces, with 1
notch on E and 5 notches on W. edges
from which,
Cedar 15 ins. diam. bears N 72° E 22 lks dist.
Marked T. 42 S., R. 6 W., S. 36, B. T.
Cedar 6 ins. diam. bears S 36° E, 55 lks dist.
Marked T. 43 S., R. 6 W., S. 1, B. T.
Cedar 8 ins. diam. bears S. 10° W, 30 lks dist.
Marked T. 43 S., R. 6 W., S. 2 B. T.
Cedar 10 ins. diam. bears N. 69° W, 30 lks dist.
Marked T. 42 S., R. 6 W., S. 35. B. T.
Land rolling,
Soil sandy; 2nd rate. Timber cedar.
Heavy timber or dense brush on
80.00 chs.

West bet. Secs. 2 and 35,
Over mountainous and rolling land,
through dense brush and thick cedars
10.00 Descend
21.00 Gulch drains N. W. ascend
29.00 Descend into gulch 200 ft. deep.
[illegible] Bottom of gulch [illegible]
Set sandstone 12 x 8 x 6 ins. 18 ins.
in ground for 1/4 sec. cor. marked
1/4 S on N. face: and raise a mound
of stone 2 ft. base 1½ ft. high N. of
cor. Pits impracticable.
ascend abruptly,
[illegible] Top of canon,
[illegible] Set cedar post 3 ft. long, 11 ins. sq.
24 ins. in ground for cor. of secs.
2, 3, 34 and 35 marked
T. 42 S., S. 35 on N. E.
R. 6 W., S. 2 on S. E.
T. 43 S., S. 3 on S. W. and
S. 34 on N. W. faces with 2
notches on E. and 11 notches on
W. edges from which

South boundary of T. 42 S., R. 6 W. continued.

Chains.	
	A cedar 6 ins. diam. bears N. 62° E. 57 lks dist. marked T. 42 S., R. 6 W., S. 35. B.T.
	A cedar 14 ins. diam. bears S. 89° E. 69 lks dist. marked T. 43 S. R. 6 W. S. 2. B.T.
	A cedar 10 ins. diam. bears S. 43° W. 55 lks dist. Marked T. 43 S., R. 6 W., S 3. B.T.
	A cedar 10 ins. diam. bears N. 70° W. 87 lks dist. marked T. 42 S., R. 6 W., S 34, B.T.
	Land mountainous.
	Soil sandy and rocky 2nd and 4th rate.
	Timber pine and cedar.
	Mountainous, heavy timber and dense brush on 80.00 chs
	March 6; At this cor. I set off 5° 20' on the decl. arc and at 0 h. 00 m. l. m. t. I observe the sun on the meridian, the resulting lat. is 37° 07' which is about the proper lat.
	West bet secs 3 and 34
	Over mountainous land, through dense brush and cedar timber descend
32.00	Edge of Hog canon 250 ft. deep. As the point for 1/4 sec. cor. falls in an inaccessable place I set a sandstone 24 x 10 x 8 ins. 18 ins in the ground for a lim cor to 1/4 sec. s., marked N. C. 1/4 Sec on N face. from which
	A pine 10 ins. diam. bears S. 78° W., 29 lks dist. marked N.C. 1/4 S. B.T.
	A cedar 7 ins. diam. bears. N. 19° W., 17 lks dist. marked N.C. 1/4 S B.T.
42.00	bottom of canon bro S. 10° W.
	Set sandstone 12 x 10 x 5 ins, 10 ins. in ground for a lim cor to 1/4 sec. marked N.C. 1/4 S. on N. face. and raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable.
43.00	Wagon trail in bottom of canon.

South boundary of T. 42 S., R. 6 W. - continued

Chains	
47.00	Across bottom of canon, ascend abruptly
47.00	Top of canon, level
53.20	Descend into canon 100 ft. deep.
60.00	Bottom of canon dir. S.
67.80	Top of canon ascend gradually
80.00	Set cedar post 3 ft long, 4 ins sq. 24 ins in ground for cor. of secs. 3, 4, 33 and 34, marked T. 42 S., S. 34. on N. E. R. 6 W., S. 3. on S. E. T. 43 S., S. 4, on S. W and S 33 on N. W. faces; with 3 notches on E. and W. edges. from which. A cedar 10 ins. diam. bears N. 30° E. 96 lks. dist. marked T. 42 S. R. 6 W. S 34. B.T. A cedar 14 ins. diam. bears S. 65° E. 20 lks dist. marked T. 43 S. R. 6 W. S. 3. B.T. A cedar 9 ins. diam. bears S. 1° W. 52 lks dist marked T. 43 S. R. 6 W. S. 4. B.T. A cedar 15 ins. diam. bears N. 9° W. 52 lks dist. marked T. 42 S. R. 6 W. S. 33. B.T. Land mountainous. Soil stony and sandy; 4th rate Timber cedar and pine. Mountainous, heavily timbered and dense brush on 80.00 chs. March 6. 1897
	March 8. 1897; At 8 h a.m. l.m.t I set off 37'07" Non lat. arc 4°37' S. on the decl. arc, and determined a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34. Thence I run Wash bet. secs. 4 and 33 Over rolling land through dense brush and cedar + pine timber.
2.00	Descend
10.00	Gradual ascent
25.00	Top of slope 100 feet high.

South boundary of T. 42. S., R. 6. W., continued.

Chains.	
40.00	Set cedar post 3 ft long 4 ins sq. 24 ins in ground for 1/4 sec. cor., marked 1/4 S. on N face. from which
	Cedar 12 ins diam. bears N. 11° W, 192 lks dist. marked 1/4 S. B.T.
	Cedar 8 ins diam., bears S. 22° E., 99 lks dist. marked 1/4 S. B.T.
	Continue to ascend
56.00	Descend.
80.00	Set a cedar post 3 ft. long 4 ins sq 24 ins. in ground for cor. of secs. 4, 5, 32 and 33. marked T. 42. S., S 33 on N. E. R. 6. W., S. 4, on S. E. T. 43. S., S. 5, on S. W. and S 32 on N. W. with 4 notches on E and 2 notches on west edges. from which
	Cedar 10 ins diam. bears. N 24° 30' E, 105 lks dist. marked T. 42. S, R. 6. W. S 33. B.T.
	Cedar 12 ins diam bears N. 8° W, 163 lks dist. marked T. 42. R. 6. W. S. 32 B.T.
	dig pits 18 x 18 x 12 ins in each sec. 4 ft. dist. and raised a mound of earth 4 ft base. 2 ft high W. of cor.
	Land rolling
	Soil sandy loam: 2nd rate,
	Timber pine and cedar.
	Heavy timber and dense brush on 80.00 chs.
	West bet. secs 5 and 32
	Over rolling land through cedars and pine timber and dense brush ascend gradually
10.00	Descend
17.00	Top of Kanab canon 500 ft deep.
35.00	Bottom of canon. cross Kanab creek 40 lks wide drains S.
40.00	Set sandstone 14 x 10 x 6 ins. 10 ins. in ground for 1/4 sec. cor marked

South boundary of T. 42. S., R. 6. W.—continued.

Chains.	
	1/4 S. on N. face; dig pits 18 x 18 x 12 ins., E. and W. of cor., 3 ft diah.; and raise a mound of earth 3½ ft base 1½ ft high, N. of Cor.
40.05	Road bears N. and S.
41.30	Road bears N. and S. ascend.
52.00	Foot of cliffs ascend abruptly.
57.12	Top of cliffs ascend gradually
61.00	Top of slope descend gradually.
80.00	Set cedar post 3 ft long, 4 ins sq., 24 ins in ground, for cor. of secs. 5, 6, 31, and 32, marked T. 42. S., S. 32. on N. E. R. 6. W. S. 5. on S. E. T. 43. S., S. 6. on S. W. faces and S. 31 on N. W. with 5 notches on E and 1 notch on W. edges from which A cedar 20 ins. diam. bears N 17⅛° E 105 lks dist. marked T. 42. S., R. 6. W., S. 32. B. T.; dig pits 18 x 18 x 12 ins in each sec. 5 ft diah dish; and raise a mound of earth 4 ft base, 2 ft high W. of cor.
	Land rolling and mountainous
	Soil stony & sandy; 2nd rate
	Timber pine & cedar
	Mountainous, or dense brush on 80.00 chs.
	March 8; At this cor. I set off 4°38' S on the decl. arc and at 0h 00m l. m. t observe the sun on the meridian; the resulting latitude is 37°07' N which is about the proper lat.

Wash bet. secs. 6 and 31.
Over rolling land, through scalling cedars and dense brush.

40.00	Set cedar post 3 ft long, 4 ins. sq.

chains

24 ins in ground for 1/4 sec. cor.
marked 1/4 S. on N face from which
Cedar 6 ins. diam. bears N. 35° E. 134 lks dist.
marked 1/4 S. B.T.
Cedar 9 ins. diam. bears N 55½° W. 287 lks dist.
marked 1/4 S. B.T.
Allowing for convergence of meridian
78.37 Set a cedar post 3 feet long 4 ins. sq.
24 ins. in ground for cor of Tps
42 and 43 S. Rs. 6 and 7 W. marked
T. 42 S., S. 31, on N.E.
R. 6 W., S. 6, on S.E.
T. 43 S., S. 1, on S.W. and
R. 7 W. S. 36, on N.W. faces with
6 notches on each edge, from which
Cedar 12 ins. diam. bears S. 78° E., 287 lks dist.
marked T. 43 S., R. 6 W., S. 6, B.T. dug pits
24 × 24 × 12 ins., on each line N. E and
W. 4 ft and S. of post 8 ft dist.
and raised a mound of earth
5 ft base, 2½ ft high S. of cor.
Land rolling
Soil sandy loam; 2nd rate
Timber; cedar
Dense brush on 78.37 chs.
March 8. 1897

× West Boundary. T. 42 S. R. 6 W.
(March 9: At 8 a.m. l.m. + I set
off 37°07' N on the latitude arc: 4°10' S.
on the decl. arc; and determined
a true meridian with the solar,
at the cor. of Tps 42 and 43 S.,
R. 6 and 7 W.
Thence I run)
× North on a true line between
31 and 36
Over mountainous land, ascend
20.00 Descend, enter heavy cedars
40.00 Set cedar post 3 ft. long 4 ins sq.,
24 ins in ground for 1/4 sec. cor.
marked 1/4 S. on W. face from which
Cedar 8 ins. diam. bears N 68⅓° W 181 lks dist.

Chains.	
	marked 1/4 S. B.T.
	Cedar 24 ins. diam. bears S. 25¼° E., 192 lks dist.
	marked 1/4 S. B.T.
45.00	Descend abruptly
49.00	small gulch drains E. ascend
53.79	Abrupt descent into canon 200 feet deep:
	drains E
59.00	Wash drs Easterly
64.00	Wash drs Easterly
75.00	Wash drs Easterly
80.00	Set a cedar post 3 ft. long, 4 ins sq.
	24 ins in ground for cor of secs.
	25, 30, 31 and 36. marked
	T. 42. S., S. 30. on N. E.
	R. 6. W. S. 31. on S. E.
	S. 36, on S. W and
	R. 7. W. S 25 on N. W. faces with
	5 notches on N. and 1 notch on S
	Edges. from which
	Cedar 12 ins diam bears S. 69° E. 51 lks dist.
	marked T. 42. S. R. 6. W. S. 31. B.T.
	Cedar 6 ins diam. bears N. 44½° E 70 lks dist.
	marked T. 42. S. R. 6. W. S. 30. B.T.
	Cedar 8 ins. diam bears S 78½° W. 172 lks dist.
	marked T. 42. S. R. 7. W. S. 36. B.T.
	Cedar 10 ins. diam bears N. 38° W 77 lks dist.
	marked T. 42. S. R. 7. W. S. 25. B.T.
	Land mountainous
	Soil stony and sandy 4th rate.
	Timber cedar & pine
	Mountainous and dense brush on
	80.00 chs.

	North bet secs 25 and 30
	Over mountainous land through
	dense bush and heavy timber.
9.11	Edge of Emmets canon drains S.E.
17.50	Road in bottom of canon; enter field
19.00	leave field ascend abruptly.
25.26	top of cliffs. ascend
34.89	Descend

West boundary of T. 42 S. R. 6 W. continued

Chains	
40.00	Set cedar post 3 ft long, 4 ins sq. 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on W. face, from which
	Cedar 8 ins. diam. bears S 65 2/3° W. 37 lks dist. marked 1/4 S. B.T.
	Cedar 8 ins. diam. bears S 76 1/3° E 44 lks dist. marked 1/4 S. B.T.
46.00	Wash drains E. ascend
60.00	Descends.
80.00	Set cedar post 3 ft long, 4 ins sq., 24 ins in ground. for cor. of secs. 19, 24, 25 and 30. marked T. 42 S, S. 19, on N.E. R. 6 W; S. 30, on S.E. S. 25, on S.W. and R. 7 W. S. 24, on N.W. faces, with 4 notches on N. and 2 notches on S. Edges. from which
	Cedar 24 ins. diam. bears N 80 3/4° E. 212 lks dist. marked T. 42 S, R. 6 W, S. 19. B.T.
	Cedar 20 ins. diam. bears S. 24° E. 266 lks dist. marked T. 42 S, R. 6 W, S. 30, B.T.
	Cedar 24 ins diam. bears, S 35 2/3° W. 198 lks dist. marked T. 42 S, R. 7 W, S. 25, B.T.
	Cedar 7 ins. diam. bears, N 55 2/3° W. 153 lks dist marked T. 42 S, R. 7 W, S 24. B.T.
	Land mountainous. Soil sandy and stony; 4th rate Timber: pine and cedar, Mountainous & dense brush on 80.00 chs.

North bet. secs. 19 and 24

Over mountainous land through dense brush and cedars. ascend

25.00	Top of ridge descends. to E and W.
39.00	Flat drains E.
40.00	Set cedar post 3 ft long 4 ins sq., 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face from which

West boundary of T.42.S. R.6.W. continued

Chains	
	A cedar 9 ins diam bears N 22° W. 61 lks dist. marked 1/4 S, B.T.
	A cedar 13 ins. diam. bears S 62° E 34 lks dist. marked 1/4 S, B.T.
47.50	Descend into cañon
55.00	Across canon 100 feet deep, ascend,
59.00	Top of slope, descend.
66.15	Road from Kanab to Orderville bears S.E. ascend.
80.00	Set cedar post 3 ft long 4 ins sq., 24 ins in ground for cor. of secs. 13, 18, 19 and 24, marked T.42.S, S.18, on N.E. R.6.W, S 19, on S.E. S.24, on S.W and R.7.W, S13 on N.W. with 3 notches on N and S edges, from which
	A cedar 16 ins. diam bears N 67 1/3° E 68 lks dist. marked T42.S, R.6.W, S.18 B.T.
	A cedar 24 ins. diam. bears S 41 1/2 E 240 lks dist. marked T.42.S, R.6.W, S.19, B.T.
	A cedar 8 ins diam. bears S 10 1/3° W 132 lks dist. marked T.42.S. R7.W, S.24, B.T.
	A cedar 18 ins diam bears N 26° W. 208 lks dist, marked T.42.S, R.7.W, S.13, B.T.
	Land mountainous
	Soil rocky and sandy; 4th rate
	Timber pine and cedars
	Mountainous and dense brush
	on 80.00 chs
	March 9; At this cor I set off 4° 09' S on the decl. arc and at 6h 00m l.m.t observe the sun on the meridian; the resulting latitude is 37° 10' N which is about the proper lat.

North bet secs 13 and 18
Over rolling land through dense brush and cedars.

Chains	
	ascend gradually.
30.00	abrupt ascent.
40.00	Cor falls on bare sandrock in place. I cut a cross on rock and set a sandstone 12x10x8 ins over cross, for 1/4 sec. cor. marked 1/4 S. on W face, and raised over it a mound of stone 3 feet base 1½ feet high, from which
	Apine 6 ins. diam. bears S. 32° W. 36 lks dist. Marked 1/4 S. B.T.
	Cedar 10 ins. diam bears S 34° E 47 lks dist. marked 1/4 S. B.T.
44.00	Top of ridge bears S. E. descend
56.00	ascend through dense cedars.
68.00	Top of ridge bn. E and W. descend.
80.00	Set cedar post 3 ft long 4 ins sq 24 ins in ground for cor of 7, 12, 13 and 18 marked T. 42 S. S. 7 on N. E. R. 6 W. S. 18, on S. E. S. 13, on S. W. and R. 7 W. S. 12, on N. W. faces with 2 notches on N. and 4 notches on S. edges from which
	Cedar 16 ins diam. bears S 67½° W 254 lks dist. marked T. 42 S. R. 7 W. S. 13. B.T.
	Cedar 12 ins diam. bears N 50° W. 141 lks dist. marked T. 42 S. R. 7 W. S. 12, B.T.
	No other trees within limits dug pits 18x18x12 ins. in each sec. 5½ ft. dist.; and raised a mound of earth 4 ft. base, 2 ft high W. of cor.
	Land rolling and mountainous. Soil rocky and sandy; 4th rate. Timber cedar & pine. Mountainous or heavily timbered and dense brush on 80.0 chs.

North bet secs 7 and 12
descend through dense brush.

West boundary of T. 42. S. R. 6. W. continued.

Chains	
12.00	Foot of descent, over high sand ridges, dense brush and scattering pines & cedars
40.00	Set cedar post 3 ft long, 4 ins. sq., 24 ins in ground, with marked stone, for 1/4 Sec. cor. marked 1/4 S. on W. face: dug pits 18x18x12 ins N. and S. of post 3 ft dist, and raised a mound of earth 3½ ft base 1½ ft high, W. of cor.
80.00	Set cedar post 3 ft long, 4 ins sq, 24 ins in ground for cor. of secs. 1, 6, 7 and 12. marked T. 42. S., S. 6, on N. E. R. 6. W., S. 7, on S. E. S 12. on S. W., and R. 7. W S 1 on N. W. faces with 1 notch on N. and 5 notches on S. edges from which A cedar 12 ins. diam. bears N. 15° E. 52 lks. dist. marked T. 42. S., R. 6. W., S. 6. B. T. A cedar 14 ins. diam. bears S. 43° E. 238 lks. dist. marked T. 42. S., R. 6. W., S. 7. B. T. A cedar 18 ins diam. bears S. 19½ W. 274 lks. dist. marked T. 42. S., R. 7 W. S. 12, B. T. A cedar 16 ins. diam. bears N. 44½ W. 238 lks dist marked T. 42. S., R. 7. W., S. 1, B. T. Land mountainous. Soil sand & 4th rate. Timber, pine, cedars, mountainous and dense brush on 80.00 chs.

North bet. secs. 1 and 6

9.00	Descend into canon 250 ft deep
11.00	Bottom of canon, drains S. E.
16.85	Top of canon, ascend over rolling ground
24.00	Wash drains S. E.
40.00	Set cedar post 3 ft. long 4 ins. sq.

West boundary of T 42 S., R. 6 W.-concluded

Chains	
	24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on W. face, from which
	A cedar 10 ins. diam. bears N 9½° W., 58 lks. dist. marked 1/4 S. B.T.
	A pine 10 ins. diam. bears S 53½° E. 122 lks. dist. marked 1/4 S. B.T.
64.00	Dry wash trains S. E.
76.50	Descend
76.95	My retracement of the E. bdy. or Panguitch Guide Meridian showing the same to be 3 miles 76.95 chs. long. I therefore set this point set a permanent cor. for Ts. 41 and 42 S., Rs 6 & 7 W., as follows
	Set a cedar post 3 ft long 4 ins. sq., 24 ins. in ground, marked T 41 S., S 31 on N.E. R. 6 W. S. 6. on S.E. T. 42 S., S. 1, on S. W. and R. 7 W. S. 36, on N. W. faces with 6 notches on each edge, from which
	A cedar 30 ins. diam. bears N 45° E. 78 lks. dist. marked T. 41 S. R. 6 W. S. 31, B.T.
	A cedar 12 ins. diam. bears S. 3° E. 210 lks. dist. marked T. 42 S., R. 6 W., S. 6, B.T.
	A cedar 24 ins. diam. bears N 84° W 44 lks. dist. marked T. 41 S., R. 7 W. S. 36, B.T.
	no other tree within limits dug pits 24 x 24 x 12 in. middle line N. E and W 4 ft. and S. of post 8 ft dist., and raised a mound of earth 5 ft. base 2½ ft high, S. of cor.
	Land mountainous.
	Soil sandy and stony; 2nd and 4th rate
	Timber, pine and cedar
	Mountainous, heavily timbered or dense brush on 76.95 chs
	March 9. 1897

chains	
	March 10: At 9h 00m a.m. l.m.t. I set off 37°12' on lat arc; 3° 47' S. on the decl. arc and determined a true meridian with the solar at the cor of T. 41 and 42 S., R. 6 and 7 W. which I established March 9. Thence I run East on a random line along the N. bdy of T. 42 S., R. 6 W. setting temp 1/4 sec. and sec. cors. at intervals of 40.00 chs. and at 477.44 chs intersect the Tanguitch Guide Meridian at the closing cor of T. 42 S., R. 5 and 6 W. which I established March 5. Therefore I ran West on a true line between 1 and 36. Over mountainous land through dense cedars and brush descend
19.25	Abrupt descent 100 feet
22.00	Enter bottom, dec. S.W.
35.00	Ascend along S. side mountain
40.00	Set cedar post 3 ft long 4 ins sq., 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	A cedar 16 ins diam. bears N. 4° E. 129 lks dist marked 1/4 S. B.T.
	A cedar 8 ins. diam. bears S. 60° E. 44 lks dist. marked 1/4 S. B.T.
53.00	Dry wash drains S.
54.50	Dry wash drains S.E.
59.00	Descend
61.00	Valley drains S.
63.00	Ascend.
76.00	Top of ascent descend
80.00	Set cedar post 3 feet long 4 ins sq., 24 ins in ground for cor of secs 1, 2, 35 and 36. marked

Chains	
	T. 41. S. S. 36, on N. E. R. 6. W. S. 1, on S. E. T. 42. S. S. 2, on S. W and S. 35, on N. W. faces with 1 notch on E and 5 notches on W. edges. from which Cedar 20 ins. diam. bears N. 25½ E 74 lks dist. marked T. 41. S., R. 6. W., S. 36. B. T. Cedar 15 ins. diam. bears S 52½° E 121 lks dist. marked T. 42. S., R. 6. W. S. 1. B. T. Cedar 8 ins diam. bears S 5¾° W. 92 lks dist marked T. 42. S., R. 6. W. S. 2. B. T. Cedar 9 ins. diam. bears N 36⅔° W. 53. lks dist marked T. 41. S., R. 6. W., S. 35 B T Land mountainous Soil sandy and rocky; 4th rate, Timber cedar and pine. mountainous and dense brush on 80.00 chs.
	Nish bet. secs. 2 and 35 Over mountainous land through dense brush and cedars, descend
10.50	Dry wash dis. S., ascend,
16.00	Top of slope 100 feet high gradual descent
40.00	Set cedar post 3 ft. long, 4 ins sq., 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which Cedar. 7 ins diam. bears N 43° E 167 lks dist. marked 1/4 S. B. T. Cedar 8 ins diam bears N 46° W. 53 lks dist. marked 1/4 S B. T.
80.00	Set cedar post 3 ft long 4 ins sq. 24 ins in ground for cor of secs. 2, 3, 34 and 35. marked T. 41. S. S. 35, on N. E. R. 6. W., S. 2. on S. E. T. 42. S., S. 3. on S. W and S 34 on N. W. with 2 notches on E and 4 notches on W. edges,

North boundary of T.42 S., R.6 W., continued

Chains	
	from which
	A cedar 10 ins. diam. bears N 46¼ E. 134 lks dist.
	marked T.41 S. R.6 W., S.35. B.T.
	A cedar 14 ins. diam. bears S. 64° E 158 lks dist.
	marked T.42 S., R.6 W. S.2 B.T.
	A cedar 9 ins. diam. bears S 13½° W. 124 lks. dist.
	marked T.42 S., R.6 W. S.3. B.T.
	A cedar 7 ins. diam. bears N 67⅔ W. 160 lks dist.
	marked T.41 S., R.6 W. S.34. B.T.
	Land mountainous
	Soil sandy: 2nd rate
	Timber cedar
	mountainous, heavily timbered
	and dense brush on 80.00 chs
	West bet. secs 3 and 34
	Over rolling land through
	scattering cedars and dense brush
16.00	Drywash drains S. W.
32.00	Ascend
40.00	Set cedar post 3 ft long 4 ins sq.,
	24 ins in ground for 1/4 sec. cor.
	marked 1/4 S on N. face
	from which
	A cedar 10 ins. diam. bears, N. 62½° E. 59 lks. dist.
	marked 1/4 S B.T.
	A cedar 12 ins diam. bears S 40½° W 81 lks dist.
	marked 1/4 S B.T.
60.00	Top of ridge, descend
75.00	Level
80.00	Set cedar post 3 ft. long 4 ins sq.,
	24 ins in ground for cor. of secs.
	3, 4, 33 and 34 marked
	T.41 S., S.34. on N.E.
	R.6 W., S.3. on S.E.
	T.42 S., S.4. on S.W. and
	S.33 on N. with 3 notches
	on E. and W. edges, from which
	A cedar 10 ins. diam. bears S. 84° W. 171 lks dist.
	marked T.42 S., R.6 W., S.4. B.T.

Chains	
	A cedar 10 ins. diam. bears N 31° W, 61 lks dist marked T. 41 S., R. 6 W., S. 33 B. T.
	No other trees within limits dig pits 18 × 18 × 12 ins on each sec. 4 ft dist and raise a mound of earth 4 ft base, 2 ft high
	N. of cor
	Land rolling,
	Soil sandy: 2nd rate;
	Timber cedar
	Dense brush on 80.00 chs
	March 10: At this cor. I set off 3°45' S. on the decl. arc and at 0h00m l. m. t. observe the sun on the meridian; the resulting lat. is 37°12' which is about the proper latitude
	West betw. secs. 4 and 33.
	Over mountainous land through heavy cedars & dense brush
17.00	Descend.
20.25	Dry wash drains S. ascend
40.00	Set cedar post 3 ft long, 4 ins. sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N face from which
	A cedar 18 ins diam. bears S 50½° E 77 lks dist marked 1/4 S. B. T.
	A pine 10 ins diam. bears S 25½° W 83 lks dist. marked 1/4 S. B. T.
53.03	Descend into Kanab canon
66.00	Kanab creek 15 lks wide drains S.
67.00	Road to Kanab bears N and S.
69.75	Across bottom. Ascend
80.00	Set cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for cor. of secs. 4, 5, 32 and 33 marked T. 41 S., S. 33. on N. E. R. 6 W. S. 4. on S. E. T. 42 S., S. 5. on S. W. and

S. 32. on N. W. faces with 4 notches on E and 2 notches on W edges.
from which;
Cedar 20 ins. diam. bears S. 13½° E 84 lks. dist.
marked T. 42 S., R. 6 W., S. 4, B. T.
Cedar 9 ins. diam. bears S. 73⅔° W 85 lks. dist.
marked T. 42 S., R. 6 W. S. 5. B. T.
Cedar 8 ins. diam. bears, N. 77½° W. 58 lks. dist.
marked T. 41 S., R. 6 W., S. 32 B. T.
Cedar 24 ins. diam. bears N 15° W. 99 lks. dist.
marked T. 41 S., R. 6 W., S. 32, B. T.
Land mountainous.
Soil sandy and rocky; 4th rate
Timber, cedar,
mountainous and dense undergrowth on 80.00 chs.

West, bet. secs. 5 and 32
Over mountainous land through dense cedars and brush, ascend.
60.00 Dry wash drains S. E. ascend
125.00 Top of slope, descend over broken ledges
140.00 Set cedar post 3 ft. long 4 ins. sq. 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
Cedar 10 ins. diam. bears S 22½° W 63 lks. dist.
marked 1/4 S B. T.
Cedar 30 ins. diam. bears N 63° E 88 lks. dist.
marked 1/4 S. B. T.
480.00 Dry wash drains S. E. ascend
550.00 Flat drains S.
800.00 Set cedar post 3 ft. long 4 ins. sq. 24 ins. in ground for cor. of secs. 5, 6, 31 and 32, marked
T. 41 S. S. 32. on N. E.
R. 6 W., S. 5 on S. E.
T. 42 S., S. 6. on S. W. and
S. 31 on N. W. sides with 5 notches on E and 1 notch on W edges.
From which,

North boundary of T. 42 S., R. 6 W.

Chains.	
	A cedar 8 ins. diam. bears N 39° E 64 lks dist. marked T. 41 S., R. 6 W., S. 32, B. T.
	A cedar 10 ins diam. bears S 50° E 100 lks dist. marked T. 42 S., R. 6 W. S. 5, B. T.
	A cedar 9 ins diam bears S 39° W 111 lks dist. marked T. 42 S., R. 6 W., S. 6, B. T.
	A cedar 16 ins diam bears N. 57° W. 160 lks dist. marked T. 41 S., R. 6 W., S. 31, B. T.
	Land mountainous.
	Soil sandy 12 in. rate
	Timber; cedar,
	Mountainous and dense undergrowth — on 80.00 chs.
	Mesh bet. secs. 6 and 31
	Over mountainous land — through heavy cedars and dense brush.
	ascend 300 feet
40.00	Set white sandstone 16 x 12 x 7 ins 12 ins in ground for 1/4 sec. cor.
	marked 1/4 on N. face, from which
	A cedar 12 ins diam bears N 10° E. 77 lks dist.
	marked 1/4 S. B. T.
	A pine 14 ins diam bears S 28½° W. 35 lks dist.
	marked 1/4 S. B. T.
	Descend
50.50	Gulch drains S. E. ascend
	along south side of gulch
70.00	Top of slope.
77.44	The cor of Ts 41 and 42 S. Rs 6 and 7 W.
	Land mountainous
	Soil sandy and rocky
	Timber cedar & pine.
	mountainous or heavily timbered
	and dense undergrowth on 77.44 chs.

Mar - 10th 1897

Boundaries of Tp 2 S. R 6 W. Latitudes departures and closing Errors.

	Line bearing	Dist	Latitude N	Latitude S	Departure E	Departure W
S bdy Tp 1 S. R 6 W	West	478.37				478.37
N bdy Tp 1 S. R 6 W	North	476.95	476.95			
W bdy Tp 1 S. R 6 W	East	477.44			477.44	
Tarquill & Lake	South	476.95		476.95		
Commencement					55	
Totals			476.95	476.95	477.99	478.37
						477.99
				Error Dep		38

General Description.

This township is rolling and mountainous and is suitable for grazing. Along the bottom of Kanat Canon is considerable land suitable for agriculture. There is but little water except in Kanat creek and in the South western part of the township.

Alfred B. Lewis
U. S. Dep. Sur.

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

Final Oath of United States Deputy Surveyor.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ....., United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

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

.....
United States Deputy Surveyor.

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

SEAL

.....

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 30th, 1898.

The foregoing field notes of the survey of the South West & North Boundaries of Township 42 South Range 6 West of the Salt Lake Base & Meridian, Utah

executed by Alfred B. Lewis under his contract No. 211, dated October 7, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair
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.

H.J.B.

BOOK A-246

FIELD NOTES

OF THE SURVEY OF

Subdivision

of

Township 42 South, Range 6 West

Of the Salt Lake Base & Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct. 7th, 1896

Survey commenced March 12, 1897

Survey completed March 26, 1897

6—151

Secs. - Lots 59-00-00 ✓

Cor. - 17-00 ✓

Names and Duties of Assistants.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Monumentman
Frank L. Goodwin	Flagman

6—151

BOOK A-246

INDEX DIAGRAM.

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

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Meanders Page .....

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Preliminary Oaths of Assistants.

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

James E. Beatty, Chainman.
Ernest M. Pratt, Chainman.

Subscribed and sworn to before me this 1st day of April, 189 7

SEAL

Alfred B. Lewis
U. S. Dep. Sur.

We, Samuel C. Lewis 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

Samuel C. Lewis, Moundman.
, Moundman.

Subscribed and sworn to before me this 1st day of April, 189 7

SEAL

Alfred B. Lewis
U. S. Dep. Sur.

We, and

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

, Axman.
, Axman.

Subscribed and sworn to before me this
day of , 189

SEAL

I, Frank L. Goodwin, 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

Frank L. Goodwin, Flagman.

Subscribed and sworn to before me this 1st day of April, 189 7

SEAL

Alfred B. Lewis
U. S. Dep. Sur.

6—151

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Subdivisions of T.42 S.R.6 W.; T.36 S.R.3 W.; T.36 S.R.2 W.; T.37 S.R.
3 W.; T.38 S.R.2 W.; T.36 S.R.4 W.; T.36 S.R.5 W.; T.36 S.R.4½ W.; T.37
.R.5 W.; T.36 S.R.6 W.; T.36 S.R.7 W.; T.37 S.R.7 W.; T.39 S.R.8 W. of
he Salt Lake Base and Meridian Utah.

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divisions of T.42 S.R.6 W.; T.36 S.R.3 W.; T.36 S.R.2 W.; T.37 S.R.
; T.38 S.R.2 W.; T.36 S.R.4 W.; T.36 S.R.5 W.; T.36 S.R.4½ W.; T.37
5 W.; T.36 S.R.6 W.; T.36 S.R.7 W.; T.37 S.R.7 W.; T.39 S.R.8 W. of
Salt Lake Base and Meridian Utah.

74B

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Subdivisions of T.42 S.R.6 W.; T.36 S.R.3 W.; T.36 S.R.2 W.; T.37 S.R.
2 W.; T.38 S.R.2 W.; T.36 S.R.4 W.; T.36 S.R.5 W.; T.36 S.R.4½ W.; T.37
S.R.5 W.; T.36 S.R.6 W.; T.36 S.R.7 W.; T.37 S.R.7 W.; T.39 S.R.8 W. of
the Salt Lake Base and Meridian, Utah.

74c

Salt Lake City Utah
Jan. 26, 1897

There not being any Notary Public Justice of the Peace, or other officer capable of administering oaths within a distance of many miles therefore in order to save delay and expense, I administered the preliminary oaths myself.

Alfred B. Lewis
Ch. Dep. Rec.

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Subdivisions of T.42.S., R.6.W.

Survey commenced March 12. 1897, and executed with an L. R. Strassburger transit, with solar attachment fully described and tested on March 1 and 2, 1897. as described in book A.

I began at cor. of secs. 1, 2, 35 & 36, on the S. bdy. of the Tp. which I established March 6, 1897.
Thence I ran,
N. 0°01' W. bet. secs. 35 and 36,
Over rolling land, through dense undergrowth.

3.00	Enter cedars.
20.00	Descend.
25.00	Canon 100 ft. deep dis. W., ascend.
32.00	Across canon.
40.00	Set cedar post 3 ft. long, 4 ins. sq., with marked stone, 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face; dig pits 18 x 18 x 12 ins. N. and S. of cor. 3 ft. dist.; and raise a mound of earth 3½ ft. base, 1½ ft. high W. of cor. Leave cedars
68.00	Enter dense cedars.
79.70	Dry wash in valley dis. westerly
80.00	Set a cedar post 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in ground, for cor. of secs. 25, 26, 35 and 36, marked T.42.S. S.25; on N.E. T.6.W., S.36, on S.E. S.35; on S.W. and S.26. on N.W. faces with 1 notch on S. and 1 notch on E. edges.; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raised a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Chains	
	Land rolling and mountainous. Soil sandy and stony; 2nd rate. Timber. cedar. Dense undergrowth on 80.00 chs.
	East on random line bet. secs. 25 and 36.
40.00	set temp. 1/4 sec. cor.
79.86	Intersect E. bdy of the Tp. at the cor. of secs. 25, 30, 31 and 36, which I established March 2, 1897. Thence I run, West on a true line bet. secs. 25 and 36. Descending gradually over rolling land.
39.93	Set cedar post 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in ground for 1/4 Sec. cor. marked 1/4 S. on N. face; dig pits 18 x 18 x 12 ins., E. and W. of post 3 ft. dist.; and raised a mound of earth, 3½ ft base, 1½ ft high, N. of cor.
79.86	The cor. of secs. 25, 26, 35 and 36. Land, rolling Soil sandy loam, 2nd rate. Timber scattering cedar, Dense undergrowth on 79.86 chs.
	North 0°01' W. bet. secs. 25 and 26, Over rolling land through dense brush.
40.00	Set cedar post 3 ft. long, 4 ins. sq., with marked stone, 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face; dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of Earth 3½ ft. base 1½ ft. high N. of cor.
80.00	Set cedar post 3 ft. long, 4 ins. sq., 24 ins in ground for cor. of secs. 23, 24, 25 and 26, marked T. 42 S., S. 24, on N. E. R. 6 W., S. 25, on S. E. S. 26, on S. W. and

Chains	
	S.23, on N.W. faces with 2 notches on S. and 1 notch on E. edges from which,
	Cedar 8 ins. diam. bears N.32° E. 25 lks. dist. marked T.42 S., R.6 W., S.24 B.T.
	Cedar 10 ins. diam. bears S.89° E 30 lks. dist. marked T.42 S., R.6 W., S.25 B.T.
	Cedar 8 ins. diam. bears S.58° W. 52 lks. dist. marked T.42 S., R.6 W., S.26 B.T.
	Cedar 12 ins. diam. bears N.47° W. 60 lks. dist. marked T.42 S., R.6 W. S.23 B.T.
	Land rolling;
	Soil sandy loam; 2nd rate
	Timber cedar.
	Brush undergrowth on 8000 chs.
	March 12: At this cor. I set off 2°58' S. on the decl. arc; and at 0h00m l.m.t. I observe the sun on the meridian; the resulting lat. is 37° 09' or about 25" north than the proper lat.
	East on a random line bet. secs. 24 and 25.
40.00	Set temp. 1/4 sec. cor.
80.±4	Intersect the E. bdy. of Tp. at the cor. of secs. 19, 24, 25 and 30, which I established March 2.
	Thence I run,
	West on a true line bet. secs. 24 and 25,
	Over rolling land through dense undergrowth.
40.07	Set a cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face no bearing trees within limits: dig pits 18 x 18 x 12 ins. E. and W. of post 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Chains	
80.14	The cor. of secs. 23, 24, 25 and 26. Land rolling Soil sandy loam: 2nd. rate Timber, cedars. Dense undergrowth on 80.14 chs.
	North 0°01' W bet. Secs 23 and 24. Over rolling land through dense brush gradually ascending
40.00	Set cedar post 3 ft long 4 ins sq., with marked stone, 24 ins, in ground for 1/4 sec, cor., marked 1/4 S on W. face; dig pits 18 x 18 x 12 ins., N and S. of post 3 ft dist., and raised a mound of earth 3½ ft base 1½ ft high. W. of cor.
80.00	Set cedar post 3 ft long, 4 ins sq., 24 ins in ground for cor. of secs. 13, 14, 23 and 24, marked T.42, S., S.13. on N.E. R.6. W., S.24, on S.E. S 23. on S.W and S. 14, on N.W. faces with 3 notches on S. and 1 notch on E edges; from which Cedar 7 ins. diam. bears N. 58⅓° E. 23 lks. dist. marked T.42, S., R.6 W., S.13. B.T. Cedar 16 ins. diam. bears S. 14⅔° E. 88 lks. dist. marked T.42, S., R.6 W., S.24, B.T. Cedar 20 ins. diam. bears S. 47⅔° W 89 lk. dist. marked T.42, S., R.6, W., S.23 B.T. Cedar 7 ins. diam bears N. 36⅓° W. 95 lk dist. marked T.42, S., R.6, W. S.14. B.T. Land, rolling, Soil, sandy, 2nd rate. Timber, scattering cedars. Dense undergrowth on 80.00 chs.

Subdivisions of T42 S, R6 W, continued

Chains	
	East on random line bet. secs. 13 and 24.
	Over rolling land, through dense cedars and undergrowth.
40.00	Set a temp 1/4 sec. cor.
80.00	Intersect the East bdy. of the Tp. 10 lks. N. of cor. of secs. 13, 18, 19 and 24 which established March 2.
	Thence Dram,
	N 89°56' W on a true line bet secs 13 and 24.
40.00	Set a cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face; from which,
	Cedar 9 ins. diam. bears S. 86 2/3° E. 175 lks. dist. marked 1/4 S. B.T.
	Cedar 15 ins. diam. bears, N. 40° W. 85 lks. dist. marked 1/4 S.B.T.
80.00	The cor. of secs. 13, 14, 23 and 24
	Land rolling.
	Soil sandy loam; 2nd rate.
	Timber, scattering cedars
	Dense undergrowth on 80.00 chs.
	March 12, 1897.

March 13; At 8h 00m a.m. l.m.t. I set off 37°10' N on the lat. arc; 2°37' S. on the decl. arc: and determined a true meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

Thence I run,

N. 0°01' W. bet. secs. 13 and 14.

Over rolling land through dense brush.

40.00	Set a cedar post 3 ft. long 4 ins. sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face from which,
	Cedar 14 ins. diam. bears N. 16° W. 27 lks. dist. marked 1/4 S.B.T.

Chains	
	A cedar 12 ins. diam., bears S.3° E. 43 lks. dist. marked 1/4 S. B.T.
	Ascend along dry ravine through dense cedars.
60.00	Top of slope, over rolling ground.
80.00	Set a cedar post 3 ft. long, 4 ins. sq., 24 ins in the ground for the cor. of secs. 11, 12, 13 and 14. marked, T.42.S., S.12. on N. E. R.6.W., S.13. on S. E. S.14. on S. W. and S.11 on N.W. faces, with 4 notches on S. and 1 notches on E. edges, from which
	A cedar 8 ins. diam., bears N.10° E. 258 lks. dist. marked T.42.S. R.6.W., S.12. B.T.
	A cedar 8 ins diam. bears S.31½° E 70 lks. dist. marked T.42.S. R.6.W., S.13. B.T.
	A cedar 10 ins. diam. bears S.32° W. 36 lks. dist. marked T.42.S., R.6.W., S.14. B.T.
	A cedar 7 ins diam. bears N 71° W. 135 lk. dist. marked T.42.S., R.6.W., S.11. B.T.
	Land, rolling and mountainous. Soil, sandy and stony. Timber, cedar, Mountainous, heavily timbered land or dense undergrowth on 80.00 chs.
	S 89°56' E on random line bet. secs. 12 and 13
40.00	Set temp 1/4 sec. cor.
50.10	Intersect E. bdy. of the Tp. 8 lks. S. of cor. of secs. 7, 12 13 and 18 which I established March 3,
	Thence I run, N. 89°59' W. on a true line bet. secs. 12 and 13.
	Over rolling land through scattering cedars,
40.00	Set a cedar post 3 ft. long 4 ins. sq., 24 ins in ground for 1/4 Sec. cor.

Subdivisions of T.42 S. R.6 W. continued

Chains	
	marked 1/4 S. on N. face from which,
	Cedar 20 ins diam. bear N 72° E 127 lks dist. marked 1/4 S. B.T.
	Cedar 14 ins diam. bears S. 4 lks. dist. marked 1/4 S. B.T.
80.10	The cor. of secs. 11, 12, 13 and 14. Land rolling. Soil sandy. and rate Timber scattering cedars, Dense undergrowth on 80.10 chs.
	N 0°01' W bet. secs. 11 and 12. Over mountainous land Through dense brush. ascend.
17.00	Top of slope. descend,
40.00	Set a cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for 1/4 sec. cor., marked 1/4 S. on W. face, from which
	A pine 12 ins. diam. bear S 24° E 30 lks. dist. marked 1/4 S. B.T.
	A cedar 11 ins diam bears S 76½° W. 20 lks. dist. marked 1/4 S. B.T.
48.00	Gulch drains W. ascend,
59.00	Top of slope. descend,
80.00	Set a cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for cor. of secs. 1, 2, 11 and 12 marked, T.42 S., S.1. on N.E. R.6 W. S.12 on S.E. S.11. on S.W and S.2. on N.W. faces with notches on S and 1 notch on E. edges, from which,
	Cedar 11 ins diam. bears N. 57½° E. 93 lks. dist. marked T.42 S. R.6 W., S.1. B.T.
	A pine 8 ins. diam, bears. S 33½° E 174 lks. dist. marked T.42 S., R.6 W., S.12, B.T.
	Cedar 12 ins diam, bears S. 18⅔° W. 20 lks. dist. marked T.42 S. R.6 W. S.11, B.T.

Chains	
	Cedar 10 ins diam. bears N 17¼° W. 63 lks. dist. marked T.42, S., R.6, W. S.2. B.T. Land mountainous, Soil sandy and stony; and rate Timber cedar & pine. Mountainous land and dense undergrowth on 80.00 chs. March 13: At this cor. I set off 2°34' S. on the decl. arc, and at 0 hrs. m. l. m. t, observe the sun on the meridian; the resulting lat. is 37°11' N.
	S. 89°59' E on random line bet. secs. 1 and 12
40.00	Set temp 1/4 sec. cor.
80.00	Intersect the E. bdy. of the Tp. 14 lks. S of cor. of secs. 1, 6, 7 and 12. which I established March 3.
	Thence I run, South 89°55' W, on true line bet. secs. 1 and 12. Over rolling land through dense undergrowth, descending.
35.00	Small gulch drains N.W.
40.00	Set a cedar post 3 ft. long 4 ins. sq. with marked stone, 24 ins in ground for 1/4 sec. cor, marked 1/4 S. on N. face: dig pits 18×18×12 E. and W. of post 3 ft. dist; and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
48.00	Small gulch drains N.
80.00	The cor. of secs 1, 2, 11 and 12 Land rolling, Soil sandy; and rate, Timber, scattering cedar, Dense undergrowth — on 80.00 ch.

Subdivisions of T. 42 S., R. 6 W., continued

Chains	
	N. 0° 00' W. on a random line beh secs 1 and 2
40.00	Set temp 1/4 sec. cor.
77.10	Intersect the N. bdy of Tp. at cor. of secs. 1, 2, 35 and 36, which I established March 10.
	Thence I run, S. 0° 01' E, on a true line beh. secs. 1 and 2.
	Over rolling land through dense undergrowth and cedars descend,
37.10	Set cedar post 3 ft. long, 4 ins. sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face from which,
	Cedar 16 ins. diam, bears N 6° E 209 lks. dist. marked 1/4 S. B.T.
	Cedar 15 ins. diam, bears S 79° W. 243 lks. dist. marked 1/4 S. B.T.
51.00	Wash in valley drains N. ascend,
67.00	Descend.
74.00	Small gulch drs. N. W.
76.00	Small gulch drs. N. W.
77.10	The cor. of secs. 1, 2, 11 and 12,
	Land rolling,
	Soil, sandy.
	Timber cedars & pines,
	Dense undergrowth on 77.10 chs
	March 13, 1897.

Chains	
	March 15: At 8h 00m a.m. l.m.t. I set off 37°07' N on the lat. arc; 1°50' S. on the decl. arc; and determined a true meridian with the solar at the cor. of secs. 2, 3, 34 and 35, which I established March 6. Thence N 0°01' W bet. secs 34 and 35 over rolling land, through dense undergrowth & cedars
26.76	Edge of Hay canon 300 ft. deep
33.00	Meander line in dry wash in bottom of Canon thence S 45° W. ascend,
40.00	Set sandstone 6 x 10 x 14 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stones 3 ft. base, 2 ft. high West of cor. Pits impracticable.
	Ascend abruptly,
49.17	Top of cliffs, over rolling land
80.00	Set a cedar post 3 ft. long 4 ins. sq., 24 ins in ground for cor. of secs. 26, 27, 34 and 35: marked T.42 S., R.6 W., S.26., on N.E. R.6 W., S.35 on S.E. S.34. on S.W and S.27. on N.W. faces, with 1 notch on S and 2 notches on E. edges. from which
	Cedar 10 ins diam bears N.8° E. 121 lks dist. marked T.42 S., R.6 W., S.26. B.T.
	Cedar 12 ins diam bears S 19° E. 169 lks dist. marked T.42 S., R.6 W., S.35: B.T.
	Cedar 15 ins diam bears N 87½° W 240 lks dist. marked T.42 S., R.6 W., S.27 B.T.
	No other trees within limits: dig pits 18 x 18 x 12 ins in each sec. 5½ ft. east ? and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

Subdivisions of T. 42 S., R. 6 W. continued

Chains	
	Land mountainous and rolling. Soil sandy and rocky; 4th rate. Timber cedar and pine. Heavily timbered on mountainous land and dense undergrowth on 80.00 chs.
	East on a random line bet. secs. 26 and 35
40.00	Set temp 1/4 sec. cor.
80.12	Intersect N. and S. line at the cor. of secs. 25, 26 35 and 36 Thence Drain; West on a true line bet. secs. 26 and 35. Over rolling land descend along a dry ravine
16.00	Ascend S. bank of dry wash do NW
40.06	Set cedar post 3 feet long 4 ins. sq. with marked stone, 24 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face; dig pits 18 x 18 x 12 E. and W. of post 3 ft. dist; and raise a mound of Earth 3½ ft base, 1½ ft high N. of cor.
57.00	Cross ravine dis. S. W.
63.00	Trail, ascend
80.12	The cor. of sec. 26, 27, 34 and 35, Land rolling, Soil sandy and rocky, Timber scattering cedar and pine. Dense undergrowth on 80.12 chs.
	N. 0°01' W. bet. secs 26 and 27. Over rolling land through dense brush and cedars.
40.00	Set a cedar post 3 ft. long 4 ins sq. 24 ins. in ground for 1/4 sec. cor.

Chains	
	marked 1/4 S. on N. face from which
	A cedar 10 ins. diam. bears S.41° E. 210 lks. dist. marked 1/4 S. B.T.
	A cedar 10 ins diam bears N 5° W. 98 lks. dist. marked 1/4 S. B.T.
80.00	Set a cedar post 3 ft. long, 4 ins. sq. 24 ins in ground for cor. of secs. 22, 23, 26 and 27. marked T.42 S., S.23. on N.E. R.6 W., S 26 on S.E. S.27. on S.W and S.22 on N.W. faces with 2 notches on S and 2 notches on E. edges. from which,
	Cedar 14 ins diam bears N.14° E 152 lks. dist. marked T.42 S. R.6 W. S.23. B.T.
	A cedar 12 ins diam bears S.32° E 150 lks. dist. marked T.42 S. R.6 W. S.26. B.T.
	A cedar 11 ins diam. bears S.36° W. 258 lks. dist marked T.42 S. R.6 W. S.27. B.T.
	A cedar 8 ins. diam bears N 80° W. 230 lks. dist. marked T.42 S. R.6 W. S.22. B.T.
	Land, rolling. Soil sandy; 2nd rate, Timber, cedar. Dense undergrowth on 80.00 chs. March 15: At this cor I set off 1°47' S. on the decl. arc; and at 0h00m l.m.t., observe the sun on the meridian; the resulting lat. is 37°09'
	East on a random line bet. secs. 23 and 26.
40.00	Set temp 1/4 sec. cor.
79.85	Intersect N. and S. line 7 lks. S. of cor. of secs 23, 24, 25 and 26
	Thence Run
	S 89°57' W. on a true line bet. secs.

Subdivisions of T.42 S., R.6 W. continued.

Chains	
	23 and 26
	Over rolling land through scattering cedars and dense undergrowth.
39.92½	Set cedar post 3 ft. long 4 ins. sq. with marked stone 24 ins in ground for 1/4 Sec. cor. marked 1/4 S. on N. face: dig pits 18 x 18 x 12 E. and W. of post, 3 ft. dist: and raise a mound of earth 3½ ft long 1½ ft high N. of cor.
79.85	The cor. of secs. 22, 23, 26 and 27.
	Land rolling,
	Soil sandy, 2nd rate
	Timber cedar.
	Dense underbrush on 79.85 chs.
	N 0°01' W bet. secs. 22 and 23,
	Over rolling land through dense undergrowth and cedars.
40.00	Set a cedar post 3 ft. long 4 ins. sq. 24 ins in ground for 1/4 Sec cor. marked 1/4 S. on N. face from which
	Cedar 10 ins diam. bears N 18½° E 135 lks. dist. marked 1/4 S. B.T.
	Cedar 10 ins. diam. bears N 58° W. 64 lks. dist. marked 1/4 S. B.T.
80.00	Set cedar post 3 ft. long 4 ins. sq., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23 marked,
	T.42 S. S. 14. on N.E.
	R.6 W., S. 23. on S.E.
	S. 22. on S.W. and
	S. 15 on N.W. faces with 3 notches on S. and 2 notches on E. edges from which.
	Cedar 8 ins diam. bears N 5° E 107 lks. dist. marked T.42 S. R.6 W. S. 14. B.T.
	Cedar 10 ins diam. bears S 86° E 78 lks. dist. marked T.42 S. R.6 W. S. 23. B.T.
	Cedar 20 ins diam bears S 35½° W 44 lks. dist. marked T.42 S. R.6 W. S. 22. B.T.

Subdivisions of T. 42 S. R. 6 W. continued

Chains	
	Cedar 8 in diam. bears N. 72° W. 62 lks. dist. marked T. 42 S. R. 6 W. S. 15. B. T.
	Land, rolling.
	Soil, sandy: 2nd rate.
	Timber, cedar.
	Dense undergrowth on 80.00 chs.
	N 89° 57' E on random line bet. secs. 14 and 23
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line bet. Ranges on sides of secs. 13, 14, 23 and 24,
	Thence Down,
	West on a true line bet. secs. 14 and 23,
	Over rolling and mountainous land,
22.00	Descend,
37.00	Gulch dry N. W., ascend,
40.00	Set cedar post 3 ft. long 4 ins. sq., 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 8 ins. diam. bears S. 61½° W. 126 lks. dist. marked 1/4 S. B. T.
	Cedar 10 ins. diam. bears N. 65½° W. 88 lks. dist. marked 1/4 S. B. T.
42.50	Ascend.
55.50	Ridge, bar N. W. & S. E.
58.00	Gulch dry N. W.
59.00	Ridge, bar N. W. & S. E.
65.00	Gulch dry, N.
70.00	Top of ridge bar N. W. & S. E.
[illegible]	The cor. of secs. 14, 15, 22 and 23
	Land rolling and mountainous,
	Soil sandy and stony; 3rd rate,
	Timber cedar and pine.
	Dense undergrowth on 80.00 chs.
	March 15, 1897.

Subdivisions of T. 42, S. R. 6, W. - continued

Chains	
	March 16: At 8h 00m a.m. l.m.t. I set off 37° 10' N on the dab. arc: 1° 26' S. on the decl. arc: and determined a true meridian with the solar at the cor. of secs. 14, 15, 22 and 23.
	Thence I run,
	N 0° 01' W bet. secs. 14 and 15,
	Over mountainous land through dense undergrowth and cedars,
20.00	Rim of gulch, descend abruptly
27.50	Bottom of gulch des. W. leave cedars. ascend.
40.00	Set cedar post 3 ft. long 4 ins. sq., with marked stone, 24 ins in ground for 1/4 Sec. cor. marked 1/4 S. on W. face: dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raised a mound of earth 3½ ft. base 4 ft. high W. of cor.
60.00	Top of ridge, rocky dense cedars.
75.00	Descend, leave cedars.
80.00	Set cedar post 3 ft. long, 4 ins. sq. with marked stone 24 ins in the ground for cor. of secs. 10, 11, 14 and 15 marked
	T. 42, S. S. 11. on N. E.
	R. 6 W., S. 14. on S. E.
	S. 15. on S. W. and
	S. 10 on N. W. faces with 4 notches on S. and 2 notches on E. edges: dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land mountainous.
	Soil sandy and stony; 2nd rate
	Timber cedar.
	Mountainous land and dense undergrowth on 80.00 chs.

Chains	
	East on a random line bet. secs. 11 and 14
4.00	Set temp 1/4 sec. cor.
80.16	Intersect N and S line 1/4 lks. N. of cor. of secs. 11, 12, 13 and 14
	Thence Over,
	N. 89° 54' W. bet. secs. 11 and 14
	Over mountainous land
4.00	Enter cedars, ascend.
9.00	Top of bench.
40.08	Set cedar post 3 ft. long 4 ins. sq., with marked stone 24 ins. in the ground for 1/4 Sec. cor. marked 1/4 S. on N. face; dig pits 18x18x12 ins. E. and W. of post 3 ft. distant; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
	Descend,
60.50	Abrupt descent,
64.00	gulch, des. N. ascend.
71.00	Valley des. N, ascend.
80.16	The cor. of secs. 10, 11, 14 and 15.
	Land mountainous,
	Soil sandy and stony; 3d rate,
	Timber cedars.
	Mountainous land and dense undergrowth on 80.16 chs.

	N. 0° 01' W. bet. secs. 10 and 11
	Over rolling land through dense brush and scattering cedars.
	Descend,
9.00	Gulch des. N.W. ascend
20.00	Descend,
22.00	Enter flat des. S.W. bare cedars.
40.00	Set a cedar post 3 ft. long 4 ins. sq., with marked stone 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N. face. dig pits 18x18x12 ins. N. and S. of cor. 3 ft. dist.; and raised a mound of earth

Subdivisions of T. 42 S., R. 6 W., continued

Chains	
	3½ ft. base, 1½ ft. high N. of cor.
58.00	Ascend through scattering cedars
80.00	Set a cedar post 3 ft. long, 4 ins. sq., 24 ins in ground, for cor. of secs. 2, 3, 10 and 11, marked, T. 42 S., S. 2, on N.E. R. 6 W., S. 11, on S.E. S. 10, on S.W. and S. 3, on N.W. faces, with 5 notches on S. and 2 notches on E. edges, from which. A cedar 10 ins diam bears S. 35½° W. 67 lks. dist. marked T. 42 S., R. 6 W., S. 10, B.T. A cedar 20 ins diam bears S. 40° W. 139 lks. dist. marked T. 42 S. R. 6 W. S. 3. B.T. no other trees within limits: dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist; and raise a mound of earth, 4 feet square 3 feet high, N. of cor. Land rolling. Soil sandy and clay loam; 2nd rate. Timber cedar. Dense undergrowth on 80.00 chs. March 16: At this cor. I set off 1°23' S on the decl. arc; and at 5h 50m l.m.t. I observed the sun on the meridian: the resulting lat. is 34°11' N.
	S. 89°54' E. on a random line bet. secs. 2 and 11
40.06	Set temp 1/4 sec. cor.
80.10	Intersect N. and S. line 10 lks. S. of cor. of secs. 1, 2, 11 and 12
	Thence I gun
	North 89°58' W. on true line bet. secs. 2 and 11
	Over mountainous land
	Descend through dense cedars.
25.00	Enter flat, dense cedars.

Subdivisions of T42.S.R.6W. continued.

Chains	
40.05	Set cedar post 3 ft. long. 4 ins. sq. with marked stone. 24 ins in ground for 1/4 sec. cor. marked 1/4 S on N. face: deg pits 18x18x12 ins E. and N. of post. 3 ft. dist.; and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
50.00	Ascend. cedars.
58.00	Top of rocky ridge bears N. & S. descend
80.10	The cor. of secs. 2. 3. 10 and 11
	Land rolling and mountainous
	Soil, sandy loam and stony 2nd rate
	Timber cedars.
	Dense undergrowth on 80.10 chs.
	N 0°01' W on a random line bet. secs 2 and 3.
14.00	Set temp 1/4 Sec. cor.
77.18	Intersect N. bdy of Tp at the cor. of secs. 2. 3. 34 and 35 which I established March 10.
	Thence Drain,
	S 0°01' E on true line bet. secs. 2 and 3
	Over rolling land, ascending.
37.18	Set a cedar post 3 ft long 4 ins. sq., 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which.
	A cedar 10 ins. diam. bears N 23° E. 16 lks dist. marked 1/4 S. B.T.
	A cedar 12 ins. diam. bears N 39° W 13 lks dist. marked 1/4 S. B.T.
77.18	The cor of secs 2, 3, 10 and 11
	Land, rolling.
	Soil, sandy. 2nd rate
	Timber cedars.
	Dense undergrowth on 77.18 chs.
	March 16, 1897.

Chains	
	March 17: At 8 00 a.m. l.m.t. I set off 37°07' on the lat. arc; 1°02' X S. on the dec. arc; and determined a true meridian with the solar at the cor. of secs. 3, 4, 33 and 34
	Thence Draw,
	N. 0°02' W. bet. secs. 33 and 34
	Over rolling sand through scattering cedars.
2.00	Descend,
16.00	Ascend.
40.00	Set cedar posh 3 ft long 4 ins sq. with marked plane 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N. face dig pits 18 x 18 x 12 ins. N. and S. of posh 3 ft. distant and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.
65.00	Enter dense cedars.
80.00	Set cedar posh 3 ft. long 4 ins. sq. 24 ins. in ground for cor. of secs. 27, 28, 33 and 34 marked T.42 S. S.27. on N.E., R.6 W., S.34. on S.E. S.33 on S.W. and S.28. on N.W. faces, with 1 notch on S. and 3 notches on E. edges, from which:
	Cedar 10 ins. diam. bears N.41° E 114 lks. dist. marked T.42 S., R.6 W., S.27. B.T.
	Cedar 10 ins diam. bears S.42° E 12 lks. dist. marked T.42 S., R.6 W., S.34. B.T.
	Cedar 8 ins diam. bears S.64° W. 23 lks. dist. marked T.42 S., R.6 W. S.33. B.T.
	Cedar 14 ins. diam. bears N.43° W. 16 lks. dist. marked T.42 S., R.6 W. S.28. B.T.
	Land rolling.
	Soil sandy loam. 2nd. rate
	Timber cedar
	Dense undergrowth on 80 chs.

Subdivisions of T. 42, S. R. 8 W. continued

Chains	
	East on a random line bet. secs. 27 and 34
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S line at cor. of secs 26, 27, 34 and 35
	Thence Drum,
	West bet secs 27 and 34
	Over rolling land through dense undergrowth, descend
40.00	Set a cedar post 3 ft. long, 4 ins. sq., with marked stone 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face; dig pits 18 x 18 x 12 ins E. and W. of post 3 ft. distant; and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
50.00	Ascend through dense cedars
80.00	The cor. of secs. 27, 28, 33 and 34.
	Land rolling
	Soil sandy; 2nd rate
	Timber cedar
	Dense undergrowth on 80.00 chs.

	N 0°02' W bet. secs. 27 and 28.
	Over rolling ground.
	Ascend through scattering cedars.
40.00	Set cedar post 3 ft. long, 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 12 ins diam. bears N 41° E. 18.7 lks. dist. marked 1/4 S. B.T.
	Cedar 8 ins. diam. bears N 8 1/2° W. 16.3 lks. dist. marked 1/4 S. B.T.
113.00	Descend
62.00	Ascend through dense cedars.
80.00	Set cedar post 3 ft. long 4 ins sq. 24 ins in ground for cor. of secs. 21, 22, 27 and 28, marked

Subdivisions of T.42 S., R.6 W. continued.

Chains.	
	T.42 S. S.22. on N.E.
	R.6 W. S.27. on S.E.
	S.28 on S.W. and
	S.21 on N.W. faces; with 2
	notches on S. and 3 notches
	on E. edges. from which
	Cedar 10 ins diam. bears N 41° E 14 lks dist.
	marked T.42 S. R.6 W. S.22. B.T.
	Cedar 8 ins diam. bears S.42° E. 12 lks dist.
	marked T.42 S. R.6 W. S.27. B.T.
	Cedar 8 ins diam. bears S.64° W. 23 lks dist.
	marked T.42 S. R.6 W. S.28. B.T.
	Cedar 4 ins diam. bears N 43° W. 16 lks dist.
	marked T.42 S. R.6 W. S.21. B.T.
	Land, rolling.
	Soil sandy; 2nd rate.
	Timber cedar.
	Dense undergrowth on 80.00 chs.
	March 17; At this cor. Dech off 1°00' S. on the dec. and at 8h 50m. 1 m.t. observe the sun on the meridian, the resulting lat is 37°09' N.
	Each on a random line bet secs. 22 and 27
49.00	Set temp 1/4 sec. cor.
80.20	Intersect North S. line 20 lks S. of cor of secs 22, 23, 26 and 27
	Thence Drum
	S 89°51' W. bet secs 22 and 27
	Over rolling land through dense cedars.
8.00	Ascend
23.00	Gulch dis. S.
31.00	Dry wash dis. S.
40.10	Set cedar post 3 ft long 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S on N. face.
	from which

Chain	
	Cedar 10 ins diam bears N.63° E. 53 lks dist. marked W.S.B.J.
	Cedar 8 ins diam bears S.10° W. 53 lks dist. marked W.S.B.J.
80.20	The cor of secs 21, 22, 27 and 28. Land rolling. Soil sandy; 2nd rate. Timber, cedar. Dense undergrowth on 80.20 chs.
	N 0°02' W bet Secs 21 and 22. Ow very rough rolling land. Descend through dense cedars
40.00	Set a cedar post 3 ft long 2 ins sq. 24 ins in ground for W.1/4 cor. marked W.S. on N. face. Somewhat
	Cedar 12 ins diam bears N.42° E. 16 lks dist. marked W.S.B.J.
	Cedar 12 ins diam bears N.71° W. 10 lks dist. marked W.S.B.J.
44.00	Ascend.
46.00	Descend.
58.00	Bottom of gulch due northwesterly
60.50	Ascend.
62.00	Descend
64.00	Gulch due N.W.
65.00	Descend into canon due S.W.
74.00	Ascend
80.00	Set a sandstone 24 x 10 x 8 ins 20 ins in ground for cor. of secs. 15, 16, 21 and 22. marked with 3 notches on S and 3 notches on E edges from which
	Cedar 17 ins diam bears S.12° E. 76 lks dist. marked T.42 S. R.6 W. S.22 B.J.
	Cedar 10 ins diam bears S.17° W. 147 lks dist. marked T.42 S. R.6 W. S.21 B.J.
	Northerly limits within limits device a mound of stone 2 ft base 1½ ft high W of cor.

Subdivisions of T. 4½ S., R. 6, W. continued

Chains.	
	Land rolling and mountainous. Soil sandy and rocky 2nd and 4th rate. Timber cedar Dense undergrowth on 80.00 chs.
	N. 89°51' E on a random line bet secs 15 and 22.
40.00	Set temp 1/4 sec. cor.
80.16	Intersect N and S. line 6 lks N. of cor of secs 14, 15, 22 and 23. Thence Down S. 89°54' W on a true line bet. secs 15 and 22 Over rolling land
40.08	Set a cedar post 3 ft long 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face. from which Cedar 9 ins diam. bears S 42½° E 57 lks dist. marked 1/4 S. B.T. A cedar 12 ins diam bears N 28° W. 44 lks dist. marked 1/4 S. B.T.
54.00	Small gulch dis N.W. ascend
66.75	Ridge
70.00	Gulch dis N.
80.16	The cor of secs 15, 16, 21 and 22. Land, rolling. Soil sandy and stony; 2nd rate Timber cedar Dense undergrowth on 80.16 chs. March 17, 1897
	March 18: At 8h 00m a.m. l.m.t. I set off 37° 10' N on the lat. arc: 0° 39' N S. on the decl. arc: and determine a true meridian with the solar at the cor of secs 15, 16, 21 and 22.

Subdivisions of T.42 S., R.6 W. continued.

Chains	
	N 0°02' W bet. secs. 15 and 16
	Over mountainous land
	through scattering cedars and dense
	brush descend
5.00	Dry wash, Westerly ascend
12.00	Top of ridge.
24.00	Gulch drains S.W.
30.50	Across gulch, ascend gradually
40.00	Set a cedar post 3 ft long 4 ins sq.
	24 ins in ground for 1/4 sec cor.
	marked 1/4 S on N face, from which
	Cedar 17 ins diam. bears N 28° E 46 lks dist.
	marked 1/4 S. B.T.
	A cedar 10 ins diam. bears S. 73° W. 87 lks dist.
	marked 1/4 S. B.T.
59.00	Descend over rolling land
80.00	Set a cedar post 3 ft long 4 ins sq.
	24 ins in ground for cor. of secs.
	9, 10, 15 and 16 marked
	T.42 S. S.10 on N.E.
	R.6 W., S.15 on S.E.
	S.16 on S.W. and
	S.9 on N.W. faces with 4 notches
	on S. and 3 notches on E. edges,
	from which
	Cedar 18 ins diam bears S. 4° E. 123 lks dist.
	marked T.42 S., R.6 W., S.15. B.T.
	no other trees within limits: dig
	pits 18 x 18 x 12 ins. in each sec. 5½ ft.
	dist.; and raise a mound of earth
	4 ft base, 2 ft. high N. of cor.
	Land mountainous and rolling
	Soil sandy and stony: 2nd rate
	Timber scattering cedar
	Dense undergrowth on 80.00 chs.

	N. 89°54' E on a random line bet.
	secs. 10 and 15
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 12 lks N. of
	cor. of secs. 10, 11, 14 and 15.

Chains	
	Thence Dran
	S 19° 59' W. on true line bet sec 10 & 15
	Over rolling sand.
12.00	Descend abruptly
24.00	Valley drs S. W.
40.00	Set cedar post 3 ft long 4 ins sq. with marked stone 24 ins in ground for 1/4 sec. cor marked 1/4 S on W face; dig pits 18 x 18 x 12 ins E and W. of post; and raise mound of earth 3½ ft base 1½ ft high W. of cor.
47.00	Dry wash drs S. W. ascend
52.00	Ascend
70.00	Descend
80.00	The cor of secs 9, 10, 15 and 16
	Land, rolling.
	Soil sandy; and rate
	Timber scattering cedars
	Dense undergrowth on 80.00 chs.

	N 0° 02' W bet secs 9 and 10
	Over rolling sand
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in ground for 1/4 sec. cor; marked 1/4 S. on W face; dig pits 18 x 18 x 12 ins N and S. of post 3 ft dist. and raise a mound of earth 3½ ft base, 1½ ft high W. of cor.
80.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in ground for cor. of secs. 3, 4, 9 and 10 marked
	T. 42 S., S 3 on N. E.
	T. 6 W. S. 10 on S. E.
	S. 9 on S. W. and
	S. 4 on N. W. faces with 3 notches on S and 3 notches on E edges
	from which
	A cedar 8 ins diam. bears N 33° E 53 lks dist.

Subdivisions of T.42 S. R.6 W. continued.

Chains	
	marked T.42 S. R.6 W. S.3. B.T.
	Cedar 20 ins diam. bears S.15° E. 7 lks dist.
	marked T.42 S. R.6 W. S.10 B.T.
	Cedar 20 ins diam. bears S.68° W. 15 lks dist.
	marked T.42 S. R.6 W. S.9. B.T.
	Cedar 10 ins diam. bears N.15° W. 98 lks dist.
	marked T.42 S. R.6 W. S.4. B.T.
	Land rolling
	Soil sandy 2nd rate
	Timber scattering cedars
	Brush undergrowth on 80.00 chs
	March 18. At this cor. I set off 0°36' S. on the decl. and at 0h00m 1s.m.t. observed the sun on the meridian. The resulting lat. is 37°11' N.
	N. 89°59' E. on a random line bet. secs 3 and 10
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line at cor of secs 2. 3. 10 and 11.
	Thence Drum
	S. 89°59' W. on a true line bet. secs. 3 and 10
	Over rolling lands ascending
9.00	Descend.
20.00	Ascend.
26.00	Descend.
40.00	Set a cedar post 3 ft long 4 ins sq 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 10 ins diam. bears S.31° E. 98 lks dist.
	marked 1/4 S. B.T.
	Cedar 14 ins diam. bears S.17° W. 18 lks dist.
	marked 1/4 S. B.T.
51.00	Valley drains S. ascend
80.00	The cor of secs 3. 4. 9 and 10.
	Land rolling
	Soil sandy 2nd rate.

Subdivision of T. 42 S. R. 6 W. continued

Chains	
	Timber scattering cedars. Dense undergrowth on 80.00 Ac.
	N 0°02' W on a random line beh secs. 3 and 4
40.00	Set temp 1/4 sec. cor.
77.27	Intersect N. bdy of Tp. 6 lks E. of the cor of secs 3, 4, 33 and 34 which I established March 9.
	Thence Drum South 0°05' E on a true line beh secs 3 and 4
	Over rolling land
8.00	Descend into thick cedars.
28.00	More gradual descent
37.27	Set a cedar post 3 ft long, 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S on W. face. from which
	A cedar 6 ins diam bears N 75½ E. 76 lks dist. marked 1/4 S. B.T.
	A cedar 10 ins diam bears N 50° W 107 lks dist marked 1/4 S B.T.
77.27	The cor of secs 3, 4, 9 and 10
	Land rolling
	Soil sandy 2nd rate
	Timber scattering cedars
	Dense undergrowth on 77.27 chs.
	March. 18, 1897.

March 19: At 8h 00m l. m. t Deck of 37°07 Mon the lat. are. 0°15' S. on the decl arc: and determined a true meridian with the solar at the cor of secs. 4, 5, 32 and 33. on the S. bdy. of the Tp., which I established March 6.
N 0°03' W beh secs 32 and 33.
Over rolling land through dense undergrowth & cedars.

Subdivisions of T. 42 S., R. 6 W. continued

Chains	
27.00	Small gulch drains N. ascend.
31.00	Descend.
40.00	Set a sandstone 24 x 10 x 4 ins. 18 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face; and raised a mound of stones over cor. from which
	A pine 8 ins diam bears N 71° E 12 lks dist marked 1/4 S B.T.
	Cedar 20 ins diam bears S 42° W 33 lks dist marked 1/4 S. B.T.
41.25	Brink of canon 300 ft deep
50.00	Bottom of canon des Mitchely.
56.50	Pencil canon as ascended.
74.75	Top of ridge descend bro. E and W.
80.00	Set a sandstone 24 x 8 x 6 ins. 18 ins in ground for cor of secs 28, 29, 32 and 33. marked with 4 notches on S and 4 notches on E edges from which
	A pine 16 ins diam. bears S - 5 lks dist no other trees within limits. Erect a mound of stone 2 ft base 1½ ft. high 4 ft west of cor. pits impracticable.
	Land rolling and mountainous. Soil sandy and rocky upon sandstone. Timber cedar & pine. Mountainous land on 40.00 chs. Trees underground wk on 80.00 chs.

	Cast on a random line bet. secs. 28 and 33.
100.00	Set temp 1/4 Sec cor.
50.00	Intersect N and S line at cor of secs. 27, 28, 33 and 34
	Thence Down
	West on a true line bet secs 28 and 33
	Open rolling land through dense undergrowth and cedars.
40.00	Ascend.

Subdivisions of T. 42, S., R. 6, W., continued.

Chains	
21.00	Top of slope
40.00	Set a cedar post 3 ft. long, 4 ins. sq. 24 ins in ground for 1/4 sec cor marked 1/4 S. on N. face, from which Cedar 10 ins diam. bears S. 27° E 119 lks dist. marked 1/4 S. B.T.
	Cedar 24 ins diam. bears N 62½° W 63 lks dist. marked 1/4 S. B.T.
68.00	Ascend.
74.00	Descend.
75.50	Abrupt descent
80.00	The cor of sec's. 28, 29, 32 and 33
	Land rolling.
	Soil sandy and stony; 2nd and 4th rate.
	Timber cedars & pine
	Dense undergrowth on 80.00 chs.
	N 0°03' W bet sec's 28 and 29.
	Over mountainous land.
	along edge of cliffs
5.56	Brink of canon. descend abruptly.
40.00	Set sandstone 12 x 10 x 6 ins 8 ins in ground for 1/4 Sec. cor. marked 1/4 on N face; and raised a mound of stone 2 ft base 1½ ft high N of cor; pits impracticable.
	Foot of cliffs
47.00	Set a sandstone 12 x 10 x 6 ins. 8 ins. in ground for witness point, marked W.P. on N face from which
	Cedar 14 ins diam bears N 50° E 61 lks dist. marked W.P.
	Cedar 10 ins diam. bears S 30° W. 53 lks dist. marked W.P.
	Along edge of cliffs; ascending.
61.00	Descend abruptly into Navab Canon. creek 15 lks wide drs S. W. at foot of cliffs.
	Along creek bottom.

Chains	
77.00	Ascend and of creek on E. bank
80.00	Set a cedar post 3 ft long 4 ins sq. with marked stone, 24 ins in the ground for cor. of secs. 20, 21, 28 and 29 marked T. 42 S. R. 6 W. S. 21 on N. E. S. 28 on S. E. S. 29 on S. W. and S. 20. on N. W. faces, with 2 notches on S. and 4 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ feet disk. and raise a mound of earth 4 ft base; 2 ft high N. of cor.
	Jno. Brauns house and spring bears N. 60° E. 15.56 chs disk.
	A spring bears S. 70° W. 40.00 chs disk
	A spring bears N. 20° W. 30.00 chs disk.
	Land mountainous or broken
	Soil stony and sandy loam 4th and 2nd rate.
	Timber scattering cedars and pines.
	Mountainous land and dense undergrowth on 80.00 chs
	March 19: At this cor. I took obs. 0°12' S. on the det. axis and observed the sun on the meridian at 0h 00m l.m.t.; the resulting lat. is 37°09'
	East on a random line bet. secs. 21 and 28.
40.00	Set temp ¼ sec. cor.
80.00	Intersect N and S line at cor. of secs. 21, 22, 27 and 28.
	Thence S. run
	With bdries 21 & 28
	Over rolling land, descending through dense undergrowth and scattering cedars.

Subdivision of T. 42, S. R. 6, W. continued.

Chains	
40.00	Set a cedar post 3 ft long. 4 ins sq. 24 ins in ground for 1/4 Sec. cor. marked 1/4 S. on N face, from which Cedar 11 ins diam bears S. 75° W. 168 lks dist. marked 1/4 S. B.T. Cedar, 10 ins diam. bears N 32° W. 96 lks dist. marked 1/4 S. B.T.
46.50	Trail in canon. dis N 70° W.
69.00	enter flat
73.50	Wash, with spring in bottom dis N. W. Descend
80.00	The cor of secs. 20, 21, 28 and 29. Land rolling Soil sandy 2nd rate Timber scattering cedars Dense undergrowth on 80.00 chs.

	N 0°03' W bet secs 20 and 21 Over broken land along E side of Kanab creek. ascend
8.00	Top of hill. along side of same
27.00	Descend
40.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N face, from which Cedar 12 ins diam bears S 59½° E 143 lks dist. marked 1/4 S. B.T. Cedar 15 ins diam bears N 27° W. 178 lks dist. marked 1/4 S. B.T.
43.46	Descend to creek flat
50.00	Kanab creek 15 lks wide dis S 20° W.
53.00	Edge of high bank across creek
57.00	Descend into creek bottom
74.00	Over bank extending into bottom
80.00	Set a sandstone 24 x 8 x 8 ins. 20 ins in ground for cor. of secs 16, 17, 20 and 21. marked with 3 notches on Set 4 notches on E edges. and raise a mound of stones 4 ft.

Subdivisions of T. 42 S., R. 6 W. continued

Chains	
	base, 2 ft. high N. of cor.
	Land broken
	Soil sandy and stony 2nd and 4th rate
	Timber, a few cedars and cotton woods
	Dense undergrowth and mountainous land on 80.00 chs.
	Cash on a random line bet secs. 16 and 21
40.00	Set temp 1/4 Sec. cor.
80.16	Intersect N and S line 12 links N. of cor of secs 15, 16 21 and 22
	Thence Drum
	N 89°55' W on a true line bet secs 16 and 21
	Across bottom of wide canon draining southwestly.
9.00	Dry wash drs. W. along wash
17.00	Leave wash.
27.00	Descend into deep wash of the main canon
33.00	Bottom of wash. ascending
35.00	Top of bank
40.08	Set cedar post 3 ft long, 4 ins sq. with marked stone 24 ins in the ground for 1/4 sec. cor, marked 1/4 S. on N face; dig pits 18 x 18 x 12 ins E and W. of post 3 ft disk and raise a mound of earth 3½ ft base, 1½ ft high N. of cor.
46.00	Ascending steep ridge bis N. & S.
60.00	Top of ridge descend into Kanab
79.75	Kanab creek 15 lks wide drs N. to E.
80.16	The cor of secs 16, 17, 20 and 21.
	Land broken and mountainous
	Soil sandy and rocky.
	Timber very scattering cedars.
	Mountainous land or dense undergrowth on 80.16 chs.

Subdivisions of T42, S., R.6, W., continued.

Chains	
	March 22: At 8h00m a.m. l.m.t. set off 37°10' N on the latitude arc; 0°56' N on the decl. arc and determined a true meridian with the solar at the cor. of secs. 16, 17, 20 and 21
	Thence Drum
	N 0°03' W bet secs 16 and 17.
	Over broken ground along bottom
1.00	Kanab creek 18 lks wide dis S 10° E ascend.
3.00	Top of bank 20 ft high
8.00	Offset 5 chs W to pass cliff 200 ft high on E.
9.00	Descend
12.00	Creek 15 lks wide, dis S.E.
17.00	Ascend.
18.00	Top of bank 20 ft high
21.50	Creek 20 lks wide dis S.W.
24.00	Offset 5.00 chs E to true line
31.00	Offset 1.50 chs E to pass high cliff on W.
32.50	Creek 15 lks wide dis S.W.
40.00	Offset 1.50 chs W to true line
	Set a sandstone 12 x 10 x 6 ins, 8 ins in ground for 1/4 sec cor. marked 1/4 on W face; and raise a mound of stones 4 ft base, 1½ ft high W of cor. pits impracticable.
47.00	Ascend bank
59.00	Descend into creek
77.50	Ascend W bank of creek
80.00	Set cedar post 3 ft long 4 ins sq, with marked stone 24 ins in the ground for cor of secs. 8, 9, 16 and 17, marked
	T42 S. S9 on N.E.
	R.6 W. S.16 on S.E.
	S.17 on S.W. and
	S.8 on N.W. faces, with 4 notches on S and 4 notches

Chains	
	on E edges: dig pits 18 x 18 x 12 ins in each section 5½ ft dist and raise a mound of earth N of cor. (14 Pace 2 ft high)
	Land very broken
	Soil sand and gravel. 4th rate
	No timber.
	Mountainous land cov: dense undergrowth on 80.00 chs.
	S. 89°55' E on a random line bet secs 9 and 16
40.00	Set temp 1/4 sec. cor.
80.20	Intersect N and S. line 5 lks N. of cor of secs 9, 10, 15, and 16
	Thence Drun
	N 89°53' W
	Over rolling land; through scattering cedars, ascend
19.00	Rolling land
40.00	Set cedar post 3 ft long 4 ins sq. 34 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 15 ins diam. bears N 69° E 180 lks dist. marked 1/4 S. B.T.
	Cedar 10 ins diam. bears S. 34° W. 158 lks dist. marked 1/4 S B.T.
55.00	Abrupt descent
56.00	Gulch drs. S. W.; ascend.
58.00	Top of ridge: descend
60.50	Same gulch drs N. W. ascend
64.00	Descend abruptly
69.00	Edge of canion 200 ft deep. bare cedars
70.00	Creek bed (10 lks wide) drs S. ascend.
80.20	To cor of secs 8, 9, 16 and 17.
	Land mountainous and rolling.
	Soil sandy and gravely. 2nd and 4th rate.
	Timber scattering cedars.
	Mountainous cov dense undergrowth on 80.20 chs.

Subdivisions of T42S., R.6W. continued.

Chains	
	N. 0°03' W. bet. sec. 8 and 9.
	Over rolling sand, through scattering cedars and dense brush.
	Ascend west side of canon
12.00	Top, over rolling sand hills.
40.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face, from which Cedar 30 ins diam. bears N. 75° E. 5 links dist. marked 1/4 S. B.T.
	Cedar 14 ins diam. bears S. 10½° E. 13 links dist. marked 1/4 S. B.T.
55.50	Descend abruptly.
59.00	Dry wash dir N.E.
63.00	Open flat.
70.00	Old corrall 3.00 chs sq. 1 ch E of line.
80.00	Set a cedar post 3 ft long, 4 ins sq. with mound of stone 24 ins in ground for cor of sec. 4, 5, 8 and 9 marked
	T.42S. S.4 on N.E.
	T.6W. S.9 on W.E.
	S.8. on S. N and
	S.5. on N.W. faces with 5 notches on S. and 4 notches on E. edges. dig pits 18x18x12 ins. in each sec. 5½ ft dist. and raise a mound of earth 4 ft. base, 2 ft high N. of cor.
	Sand mountainous and rolling.
	Soil sandy 2nd rate
	Timber scattering cedars.
	Mountainous land or dense undergrowth - on 63.00 chs.
	March 22. At this cor. I set off 0°39' W. on the dec. and at noon I observed the sun on the meridian. The reading is 37°11' N.

Subdivisions of S. 42, S. W. 6. W. continued.

Chains	
	N 89°53' E on a random line bet. secs 4 and 9.
40.00	Set temp 1/4 sec. cor.
79.90	Intersect N and S line at cor. of secs 3, 4, 9 and 10
	Thence Trav
	N 89°53' W on a true line bet. secs 4 and 9.
	Over mountainous land, ascend
10.00	Descend through cedars.
19.00	Dry wash in canon dir N.W. ascend
24.00	Descend into canon valley
30.00	Bottom of valley Dir S.W. ascend
39.95	Set a cedar post 3 ft long 4 ins sq., 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 6 ins diam. bears N. 1/2° E. 78 lks. dist. marked 1/4 S.B.T.
	Cedar 14 ins diam. bears N 60° W. 20 lks. dist. marked 1/4 S.B.T.
47.00	Top of ridge
60.00	Descend into N and S canon.
66.30	Descend abruptly, cattle trail bears N.W and S.E.
75.80	Creek 10 lks wide, ascend to
79.90	cor of secs 4, 5, 8 and 9
	Land mountainous
	Soil sandy; 2nd rate
	Timber scattering cedars.
	Mountainous land and dense undergrowth on 79.90 chs.

	N 0°03' W. on a random line bet. secs 4 and 5
40.00	Set temp 1/4 sec. cor.
77.30	Intersect N bdy of the Tp at the cor of secs 4, 5, 32 and 33 which is established March 9.
	Thence Trav
	S. 0°03' E. on a true line bet.

Subdivisions of T42, S. R6, W. continued:

Chains	
	Secs 4 and 5
	Over broken land; through
	scattering cedars. descending.
17.00	Creek 10 links wide bears S 10° W.
20.60	Wagon road N. and S. Ascend
37.20	Set cedar post 3 ft long, 4 ins sqr
	24 ins in ground for 1/4 sec. cor.
	marked 1/4 S on N face. from which
	Cedar 10 ins diam bears N 29° E
	marked 1/4 S. B.T.
	Cedar 6 ins diam bears S. 52° E
	marked 1/4 S. B.T. descend
52.60	Cross Wagon road bs. N.W. & S.E.
57.00	Kanab Creek 15 links wide.
77.30	The cor of secs 4, 5, 8 and 9.
	Land broken and rolling
	Soil sandy and stony
	Timber scattering cedars.
	Mountainous land and dense
	undergrowth on 77.30 chs.
	March 22 1897

March 23 1897: At 8h 00m a.m. l.m.t I set off 37°07' N on the lat. arc: 1° 19' W. on the decl. arc: and determine a true meridian with the solar, at the cor of secs 5, 6, 31 and 32 which I established March 6

Thence Dran

N 0°03' W bet secs 31 and 32.

Over mountainous land through scattering cedars and dense brush. Ascend

6.00	Descend.
20.50	Edge of canon descend abruptly.
31.00	Road in bottom of canon
	Canon ds S 70° E.
32.00	Dry wash. Ascend
40.00	The point for 1/4 sec. cor. falls
	on side of cliffs

Subdivisions of T.42 S., R.6 W., continued.

Chains	
42.70	Set a sandstone 14 x 8 x 4 ins 10 ins in ground N.C 1/4 sec. marked N.C. 1/4 on N. face: and raise a mound of stone 4 ft base 3 ft. high 4 ft N. of cor. pits impracticable. Continue to ascend
54.50	Top of ridge, descend.
80.00	Set a cedar post 3 ft long, 4 ins sq. with marked stone 24 ins in ground for cor. of secs. 29, 30, 31 and 32. marked T.42 S. S 29 on N.E. R.6 W. S 32 on S.E. S.31. on S.W. and S.30. on N.W. faces, with 1 notch on S. and 5 notches on E. edges. dig pits 18 x 18 x 12 in each sec. 5½ ft. Dist and raise a mound of earth 4 ft. base, 2 ft high N. of cor. Land mountainous. Soil sandy and rocky: 4th rate Timber, cedar and pine. Mountainous land and dense undergrowth - on 80.00 chs.
	Back on a random line bet secs 29 and 32
40.00	Set temp 1/4 cor.
80.00	Intersect N and S line 23 lks S of cor of secs 28, 29, 32 and 33. Thence Prim S. 89°50' W. on a true line bet secs. 29 and 32 Over mountainous land
1.70	Descend into canon 500 ft deep
20.00	Bottom creek 15 lks wide
21.00	Road along creek, ascend abruptly.
40.00	Set sandstone 12 x 10 x 6 ins, 10 ins in ground for 1/4 sec. cor. marked

Subdivisions of T. 4 N., R. 6 W. continued

Chains.	
	1/4 on N. face, raise a mound of stone 3 ft base 1½ ft high N of cor. pits impracticable.
50.00	Set the 1/4 sec cor bet sec 29 and 32 falls on very steep slope & set a cedar post 3 ft. long, 4 ins sq. 24 ins in ground for W.P. marked W.P. on N face, from which Cedar 20 ins diam bears N 30° W 136 lks distant marked W.P. no other trees within limits. dig pits 18 x 18 x 12 ins E and W. of post and raise a mound of earth 3½ ft base 1½ ft. high N of cor.
	Top of cliffs over rolling land
80.00	The cor of secs 29, 30 & 31 and 32. Land mountainous and rolling, Soil sandy and rocky 2nd and 4th rate. Timber scattering cedar and pine. Mountainous land on dense undergrowth in 80.00 chs.

	Mesh on a random line bet secs 30 and 31
40.00	Set temp 1/4 sec. cor.
78.30	Intersect W. bdy of the Tp at the cor of secs. 25, 30, 31 and 36 which I established March 9. 1897
	Thence Draw
	East on a true line bet secs 30 and 31
	Over rolling land through scattering cedars and dense brush.
38.30	Set a sandstone 13 x 8 x 6 ins. 10 ins in ground for 1/4 sec. cor. marked 1/4 on N. face, and raise a mound of stone 3 ft base 2 ft high N of cor. pits impracticable.
	Descend into canon.

Subdivisions of T.42, S. R.6, W. continued.

Chains	
56.00	Road in bottom of canon bears N. and S.
56.50	Dry wash drs S. ascend
78.30	The cor. of secs 29, 30, 31 and 32. Land mountainous and rolling Soil sandy and stony. 2nd and 4th rate Timber scattering cedars Mountainous land or dense undergrowth on 78.30 chs. ~~March 23. Sky overcast with clouds all round.~~
	N 0°03' W bet secs 29 and 30 Over rolling land
40.00	Set cedar post 3 ft long, 4 ins sq, 24 ins. in ground for 1/4 Sec. cor. marked 1/4 S. on W face, from which Cedar 11 ins diam bears N 82½° E 370 lks dist marked 1/4 S. B.T. Cedar 10 ins. diam bears N 9½° W. 311 lks dist. marked 1/4 S. B.T.
80.00	Set a cedar post 3 ft long 4 ins sq 24 ins. in ground for cor of secs 19, 20, 29 and 30, marked T.42, S., S.20. on N.E. R.6 W. S.29. on S.E. T.30 on S.W and S.19 on N.W faces, with 2 notches on S and 5 notches on E edges from which Cedar 24 ins diam. bears S 75° E 113 lks dist marked T.42, S. R6W, S.29 B.T. no other trees within limits. dug pits 18x18x12 ins in each sec. 5½ ft dist and raised a mound of earth 4 ft base 2 ft high W of cor. Land rolling. Soil sandy. 2nd rate. Timber, cedar. Dense undergrowth on 80.00 chs.

Subdivisions of T. 42, S. R. 6 W., continued.

Chains.	
	N. 89°50' E on a random line beh secs 20 and 29
40.00	Seh temp. 1/4 sec. cor.
80.08	Intersect N. and S. line 20 lks. N. of cor. of secs. 20, 21, 28 and 29.
	Thence Drun
	S. 89°59' W on a true line beh. secs. 20 and 29
	Over mountainous land
	Descend into creek
3.00	Creek 15 lks wide ascend abruptly
	Wagon road in bottom of creek
14.40	Top of cliffs. over rolling land
40.04	Seh cedar post 3 ft long 4 ins sq. with marked stone 24 ins. in ground for 1/4 sec. cor marked 1/4 S. on N face: dig pits 18x18x12 ins. E and W of post 3 ft dist.: and raised a mound of earth 3½ ft base, 1½ ft high N of cor.
76.00	Ascend
80.08	The cor of secs 19, 20, 29 and 30
	Land mountainous and rolling
	Soil sandy and stony 2nd and 4th rate
	Timber cedar
	Mountainous land or dense undergrowth on 80.08 chs.

	West on a random line beh secs. 19 and 30
40.00	Seh temp 1/4 sec cor.
78.40	Intersect W. bdy of Tp at cor. of secs. 19, 24, 25 and 30 which I established March 9.
	Thence Drun
	East beh secs 19 and 30
	Over mountainous land: descend
35.30	Edge of lake in bottom of canon.
37.80	Across lake
38.40	Seh a sandstone 30 x 12 x 8 ins. 20 ins in ground for 1/4 sec. cor.

Chains	
	marked 1/4 S. on N face and raised a mound of stone 4 ft base 3 ft. high N of cor. pits unpracticable.
	Judd ranch bears S 12° E 25 chs dist.
38.40	Inclosed fence bears N and S
38.50	Wagon road along E side of canon ascend abruptly.
43.50	Top of canon over rolling land
78.40	The cor. of secs. 19, 20, 29 and 30.
	Land mountainous and rolling. Soil sandy and stony 4th rate. Timber scattering cedars. Mountainous land so dense undergrowth on 78.40 chs.
	March 23: At this cor. I set off 1° 22' N. on the decl. arc and at 0h 00m l.m.t observed the sun on the meridian, the resulting lat. is 37° 09' N.
	March 23.
	March 24: At 8h 00m a.m. l.m.t set off 37° 09' N. on the lat. arc; 1° 43' N. on the decl. arc: and determined a true meridian with the solar. at the cor. of secs 19, 20, 29 and 30.
	Thence I run N. 0° 03' W. bet secs 19 and 20.
	Over mountainous land, ascend
5.00	Top of ridge 100 ft high, brs E & W. descend
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in ground for 1/4 sec cor. marked 1/4 S. on N face dig pits 18 x 18 x 12 ins. N and S of post 3 ft dist and raise a mound of stone 3 1/2 ft base 1 1/2 ft high W of cor.
	Flat dis westerly: ascend
67.50	Top of rocky hill 150 ft high brs E & W descend
80.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in ground for cor. of secs

Chains	
	17, 18, 19 and 20 marked T. 42 S. S. 17 on N. E. R. 6 W. S. 20 on S. E. S 19 on S. W. and S 18 on N. W. faces, with 3 notches on S. and 5 notches on E edges from which Cedar 9 in diam bears N 14 3/4° E 6 lks dist. marked T. 42 S. R. 6 W. S. 17 B. T. Cedar 12 ins diam bears N 70 2/3° E 11 lks dist marked T. 42 S. R. 6 W. S. 17 B. T. Cedar 11 ins diam bears S. 46 1/3° W. 16 lks dist. marked T. 42 S. R. 6 W. S. 19 B. T. Cedar 11 ins diam bears N 30° W. 38 lks dist. marked T. 42 S. R. 6 W. S. 18 B. T. Land mountainous and rolling Soil sandy and stony 4th rate. Timber scattering cedars Mountainous or dense under- growth on 80.00 chs.
	N. 89°59' E on a random line bet secs 17 and 20
40.00	Set temp 1/4 sec. cor.
79.75	Intersect N and S. line 20 lks S. of cor. of secs. 16, 17, 20 and 21 Thence S. run S 89°50' W on a true line bet secs 17 and 20. Over mountainous land ascending
140.00	Ascend abruptly.
170.00	Top of slope descend
190.00	Dry wash drs N. E.
39.87	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N face. dig pits 18 x 18 x 12 ins E and W. of post 3 ft dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft high N of cor. ; ascend

Chains	
60.00	Descend
79.75	The cor. of secs. 17, 18, 19 and 20
	Land rolling and mountainous.
	Soil sandy and rocky, 2nd and 4th rate.
	Timber scattering cedars.
	Mountainous land or dense undergrowth on 79.75 chs.
	Next on a random line bet secs 18 and 19.
40.00	Set temp. 1/4 sec. cor.
78.40	Intersect N Tp bdy 6 lks S of the cor of secs 13, 18, 19 and 24 which I established March 9.
	Thence Drum
	S. 89°57' E on a true line bet secs 18 and 19
	Over rolling land through dense undergrowth. descend
16.00	Dry wash dis S.E.
20.00	Dry wash dis. S.E. ascend.
35.00	Descend
38.40	Set a cedar post 3 ft long, 4 ins sq. 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N face, from which a
	Cedar 10 ins diam. bears S. 21½° E 83 lks dist marked 1/4 S. B.T.
	Cedar 10 ins diam bears N 36° W. 67 lks dist. marked 1/4 S. B.T.
55.00	Dry wash dis S.E.
78.40	The cor of secs. 17, 18, 19 and 20.
	Land rolling.
	Soil sandy; 2nd rate
	Timber Cedars.
	Heavily timbered and dense undergrowth on 78.40 chs.
	March 24: At this cor. I set off 1°46' N. on the dec. line, and at

Chain	
	0h00m l.m.t. observed the sun on the meridian; the resulting lat. is 37°10' N.
	N. 0°03' W. bet. secs. 17 and 18
	Over rolling land descending.
25.00	Valley dis. N.W. ascend
40.00	Set cedar post 3 ft. long, 4 ins. sq. 24 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	P. cedar 8 ins. diam. bears N. 70½° E. 250 lks. dist. marked 1/4 S.B.T.
	P. cedar 10 ins. diam. bears S. 3½° E. 175 lks. dist. marked 1/4 S.B.T.
50.00	Flat dis. North ascend
67.00	Enter rough sand ridges.
80.00	Set cedar post 3 ft. long, 4 ins. sq. with marked stone 24 ins. in ground for cor. of secs. 7, 8, 17 and 18, marked T.42 S., S.8 on N.E. T.6 W., S.17 on S.E. S.18, on S.W. and S.7 on N.W. with 4 notches on S. and 5 notches on E. edges; dig pits 18×18×12 ins. in each sec. a 5½ ft. disk and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Land rolling.
	Soil sandy: 2nd rate
	Timber very scattering cedar.
	Dense undergrowth on 80.00 chs.
	N. 89°50' E. on a random line bet. secs. 8 and 17.
40.00	Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 30 lks.

Subdivisions of S. 42 S., R. 6 W., continued.

Claim	N of cor of secs 8. 9. 16 and 17.
	Thence Drein
	N 89°37' W on a true line bet
	secs 8 and 17
	Ascend over rough rolling land
7.00	Top of hill
39.90	Set cedar post 3 ft. long. 4 ins. sq.
	24 ins in ground for 1/4 sec. cor.
	marked 1/4 S on N face from which
	Cedar 24 ins diam bears N 84° E 20 lks dist.
	marked 1/4 S B.T.
	Cedar 10 ins diam. bears S. 55° E 42 lks dist.
	marked 1/4 S. B.T.
79.80	The cor of secs 7, 8, 17 and 18.
	Land rolling
	Soil sandy; 4th rate
	Timber scattering cedars.
	Dense undergrowth on 79.80 chs.
	N 89°57' W on a random line
	bet secs. 7 and 18.
40.00	Set temp 1/4 sec. cor.
78.01	Intersect W. bdy of Tp. 7 lks S.
	of cor. of secs. 7, 12, 13 and 18 which I
	established March 9:
	Thence Drein
	S 89°54' E on a true line bet
	secs 7 and 18.
	Over rolling sand ridges.
38.01	Set a cedar post 3 ft long 4 ins sq.
	with marked stone 24 ins in
	the ground for 1/4 sec. cor. marked
	1/4 S. on N face; dig pits 18 x 18 x 12 ins
	Land N. of post 3 ft. dist. and
	raised a mound of earth 3½ ft.
	base 1½ ft high N of cor.
78.01	The cor. of secs. 7, 8, 17 and 18
	Land very rough
	Soil sand; 4th rate
	No timber

Chains	
	Dense undergrowth on 78.01 chs. March 24 1897
	March 26: At 8h 00m a.m. l.m.t. I set off 37°10' N. on the lat. arc; 2°30' W. on the decl. arc; and determined a true meridian at the cor. of secs. 7, 8, 17 & 18.
	Then we drove N 0°03' W. bet. secs 7 and 8 Over very rough hard sandy ridges through large scattering pine.
40.00	Set a cedar post 3 ft long, 4 ins sq. with marked stone, 24 ins in the ground for 1/4 sec. cor., marked 1/4 on W. face, dig pits 18 x 18 x 12 ins N and S. of post. 3 ft dist; and raised a mound of earth 3½ ft. base 1½ ft high W. of cor.
64.80	Descend abruptly into canon 100 ft deep.
69.00	Bottom of canon dir. S.75° E. as near
72.80	Top of ridge across canon, descend
80.00	Set a cedar post 3 ft long, 4 ins sq. with marked stone, 24 ins in ground for cor. of secs. 5, 6, 7 and 8. marked T.42 S., R.5 on N. E. T.42 S., R.6 W. S.8. on S.E. S.7. on S. Mound S.6. on N. W. faces with 5 notches on S and 5 notches on E. edges; dig pits 18 x 18 x 12 ins, in each sec. 3½ ft dist.; and raise a mound of earth 4 ft base 2 ft high W of cor. Land rolling and mountainous. Soil sandy and rocky 4th rate Timber scattering pine and cedar Dense undergrowth on 80.00 chs.

Chains	
	S 89°57' E on a random line beh secs 5 and 8
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 5 lks. S. of cor of secs. 4, 5, 8 and 9.
	Thence Drive
	N 89°59' W on a true line beh secs 5 and 8
	Ascending over rolling land.
40.00	Set cedar post 3 ft. long 4 ins sq. with marked stone 24 ins. in ground for 1/4 sec. cor. marked 1/4 S. on N face; dig pits 18x18x12 ins. E and W of post 3 ft. disk: and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs 5, 6, 7 and 8.
	Land rolling.
	Soil sandy, 2nd rate
	Timber, very scattering cedar.
	Dense undergrowth on 80.00 chs.

	N 89°54' W on a random line beh secs. 6 and 7
40.00	Set temp. 1/4 sec. cor.
77.66	Intersect W. Lp. bdy at cor of secs 1, 6, 7 and 12, which I established March 9.
	Thence Drive
	S. 89°54' E. on a true line beh secs 6 and 7
	Over rolling land
21.00	Along S. side of canon
37.66	Set a cedar post 3 ft. long, 4 ins. sq., 24 ins. in ground for 1/4 sec. cor. marked 1/4 S on N face. from which
	Cedar 8 ins diam. bears S 13½° E 90 lks dist. marked 1/4 S. B.T.

Subdivisions of T42 S., R6 W. continued.

Chains	
	Cedar 10 ins. diam. bears S 71° E 72 lks dist. marked 1/4 S. B.T.
48.00	Descend abruptly into cañon 100 ft deep
56.00	Bottom of cañon, dis. S 75° E. ascend
64.00	Top of ridge across cañon.
77.66	The cor of secs. 5, 6, 7 and 8.
	Land mountainous and rolling.
	Soil sandy and rocky; 4th rate.
	Timber cedar.
	Dense undergrowth - on 77.66 chs.
	N 0°03' W on a random line bet secs. 5 and 6.
40.00	Set temp 1/4 sec. cor.
77.21	Intersect N bdy of Tp 20 lks E of cor of secs 5, 6, 31 and 32 which I established March 10.
	Thence Drew S 0°12' E on a true line bet secs 5 and 6.
	Over rolling land.
37.21	Set a cedar post 3 ft long, 4 ins sq, with marked stone, 24 ins in ground for 1/4 sec. cor, marked 1/4 S on W. face; dig pits 18x18x12 ins N and S of post 3 ft dist. and raised a mound of earth 3½ ft base 1½ ft high W of cor
77.21	The cor. of secs 5, 6, 7 and 8.
	Land rolling ~~and~~
	Soil sandy; 2nd rate,
	Timber scattering cedars
	Dense undergrowth - on 77.21 chs.
	March 26, 1897

General Description.

This township lays upon a sandy plateau which is cut by several deep canons.

The whole township is covered with nutritious grasses and is extensively used for a stock range. The bottom along the Kanab creek as well as in a canon in the south western part of the township is rich agricultural land and can be cultivated by the use of irrigation.

The plateau lands are covered with scrub pine cedar timber and a dense growth of artemesia grease wood and rabbit brush.

The township is watered by Kanab creek and also by some springs in the south western part.

The water is nearly all used for irrigation.

No water is to be found on the plateaus.

There is one settler in sec 21 and one in sec 30.

On and immediately South of the sec line bet secs 19 and 30 are 3 small lake which act as a reservoir for water which comes from springs in the bottom of the canon. All the water is generally free from alkali.

On account of drouth for several years the former settlers have abandoned their ranches and have removed all traces of improvements. There are no indications of mineral on this township.

Alfred B. Lewis
U.S. Dep. Surv.

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

.....

SEAL

.....

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I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

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

United States Deputy Surveyor.

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

SEAL

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 27, 1896

The foregoing field notes of the survey of the subdivisions of Township No. 2 South, Range 1 West of the Salt Lake Base & Meridian, Utah

executed by Alfred B. Davis

under his contract No. 211, dated October 7, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob S. Blair

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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Examined

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BOOK A-246

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

South and East Boundary

of

Township 36 South Range 3 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced April 7th, 1897

Survey completed April 9th, 1897

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South Boundary — Lights m-ch-dec-
" " low 4-69-78 v
" " 1-08-00 v 1/5 77-78

East — " high — 2-40-00 v

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty.	Chainman.
Ernest M. Pratt.	Chainman.
Samuel C. Lewis.	Rodman.
Frank L. Goodwin	Flagman.

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Volume
#
R0246

BOOK A-246

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

.....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

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South boundary of T. 36 S., R. 3 W.

Survey commenced April 7th 1897 and executed with an L. R. Ottinger transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to 30 seconds of arc, which is also the least count of the verniers of the lat. and decl. arcs.

The instrument was examined, and tested on the true meridian at Salt Lake, found correct and was approved by the Surveyor general of Utah, Jan 26, 1897.

It being impracticable to test the adjustment of the solar by a Polaris observation at the cor. from which I commence the survey, on account of its distance from camp, I postpone the test until I have located the S. E. cor of the township.

On account of impassable cliffs and perpetual mountains I could not continue the 7th Standard Parallel. Each in accordance with the special instructions, therefore I proceed as follows:—

It being impracticable to establish the cor. of Ts 36 and 37 S., Rs 3 and 4 W. according to instructions, as the point for same falls on perpendicular cliffs, therefore I go to the witness corner for same set by Deputy T. C. Bailey on the S. bdy. of sec 36, T 36 S., R. 4 W., which is 1.90 chs W. of the true

Sam: on point which is a sandstone firmly set, marked and witnessed as described by the surveyor general.

The S. bdy of the Tp. runs over cliffs which cannot be chained, therefore to determine the dist. to the nearest accessable point on the S. bdy. I set a flag due east of N.C. of T36 and 37 S R3 and 4 W. on a ridge beyond the cliffs.

Then I measure a base N. 2°30' E. 15.60 chs. to a point from which the flag bears S. 75°10' E.

Therefore the dist along the S. bdy is $\frac{\sin 77°40' \times \text{Base}}{\sin 14°50'}$ or

$\frac{0.9769 \times 15.60}{0.256} = 59.53$ chs. making the distance from the Tp. cor. 59.53 ch. − 1.90 chs. [the dist. of the N.C. west of the Tp cor] = 57.63 chs

In order to check the triangulation from this point I measure a base North 20.00 chs to point from which the witness corr. bears S 71°25' W. Therefore the dist. along S side is Sin. 71°25' × Base or 2.9748 × 20.00 chs = 59.49 chs, making the dist. from the Tp cor 57.49 chs or 4 chs less than by first triangulation

0.48 But for the reasons fully given in my field notes I adhere to the first
57.63 Point of triangulation
57.98 Set a limestone 12 x 10 x 4 ins, 10 ins in ground, for witness cor. of secs. 5, 6, 31 and 32 marked with 3 notches on the E. and 1 notch on N. sides and N.C. on N.E face. raised mound of stone 3 ft base 2 ft high N of cor. pits as described.

South boundary of T 36 S. R 3 W. - continued

Chains	
- 77.78	Allowing for convergency of the meridian the true cor. point falls in perpendicular cliffs and cannot be set., neither can the 1/4 Sec. cor. on S. bdy of sec 32 or the cor of secs 4, 5, 32 and 33. Therefor from the witness corner above described Drive S. 60° E on traverse line 80.00 chs to a point, Thence East 48.36 chs, Thence North 40.00 chs. to a point on the S. bdy of sec 33 which is 17.64 chs E. of the true cor. point of secs 4, 5, 32 and 33. which falls in perpendicular bluffs and cannot be set, therefor at this
- 80.00 chs	
17.64	point I set a witness corner for cor of secs 4, 5, 32 and 33 as follows. Set a sandstone 14 x 8 x 6 ins, 10 ins in ground, marked W. C. on N. E face with 4 notches on E. and 2 notches on W. edges: and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable. Thence Drive E along S side sec 33. descending abruptly.
40.00	Set a sandstone 12 x 10 x 5 ins, 9 ins in ground for 1/4 Sec. cor bet secs 4 and 33 marked 1/4 S on N face, and raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable. Descend through dense brush.
54.00	Enter dense cedars.
70.00	Dry wash dir S.E. ascend
77.00	Leave cedars.
- 80.00	Set sandstone 14 x 10 x 8 ins 10 ins in ground for cor. of secs. 3, 4, 33 and 34, marked with 3 notches on

South boundary of T. 36 S. R. 3 W. continued

Chains. Land Wedges, and raise a mound of stone 2 ft. base 1½ ft high N of cor. pits impracticable.
Land mountainous
Soil rocky 4th rate
Timber cedars and pine.
Mountainous land on 80.00 chs
At 4h 00m p.m. l.m.t. Obsd ☉ 37°38' on the lab. arc: 7° 14' N on the obs. arc, and determined a true meridian at the cor of secs 3, 4, 33 and 34.

April 7 1897

April 8:
Cast beh secs 3 and 34
Over rolling, stony ground of descending
2.00 Flat
8.50 Descend
10.00 Sub-flat. dense cedars
40.00 Set a sandstone 12 x 10 x 7 ins. 9 ins in ground for 1/4 sec cor. marked 1/4 on N face. and raise a mound of stone 2 ft base 1½ ft high N of cor. Pits impracticable.
49.00 Fence bears N & S.
50.00 Leave cedars, sub-field of plowed land
58.00 Leave field, sub brush
73.23 Fence bears N. & S.
73.90 Public road, bear N. & S.
74.25 Fence bears N & S
78.50 Fence bears S & N.
80.00 Set a limestone 20 x 12 x 8 ins. 15 ins. in ground for cor. of secs 2, 3, 34 and 35. marked with 2 notches on E and 4 notches on Wedges: and raise a mound of stone 3 ft base 2 ft high N. of cor.
Pits impracticable.

South boundary of T.36 S. R.3 W continued

Chains	
	Land level and rolling. Soil sandy loam and rocky 1st and 4th rate. Timber cedar and pine. Dense brush and heavily timbered on 72.00 chs.
	East bch sees 2 and 35 Over level land through the town of Tropic.
1.45	Fence bears N. and S.
6.31	Fence bears N. and S.
9.88	Fence bear N and S.
10.40	Public road bears N and S.
11.00	Fence bears N. and S.
18.28	Fence bears N. and S.
19.50	Fence bears N and S.
23.00	Fence bears N. and S.
26.72	Fence bears N and S.
	Stub 1.19 chs wide
27.91	Fence bears N. and S.
36.08	Dry wash drs S. 60° E.
40.00	Set a sandstone 16 x 12 x 10 ins 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1½ ft. high N of cor. Pits impracticable.
43.58	Fence bears N. and S.
	Stub 1.20 chs wide
44.78	Fence bears N and S.
48.55	Fence bears N. and S.
63.15	Fence bears N and S.
80.00 Corner	Set a cedar post 3 ft. long 4 ins sq. with marked stone 24 ins in ground for cor of sees 1, 2, 35 and 36. marked T 36 S., S 36 on N.E. R.3 W., S.1. on S.E. T.37 S., S.2. on S.W. and S 35 on N.W. faces with 1 notch

South boundary of T. 36 S. R. 3 W. continued

Chains	on E. and 5 notches on W. edges. dig pits 18×18×12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high N. of cor. Land level Soil sandy loam; 1st rate Timber none
	East bet. secs 1 and 36 Over level and rolling land
3.22	fence bears N. and S.
27.00	Leave fields.
27.50	creek Wolfskill dis S.E. ascend abruptly.
40.00	Set a sandstone 20×8×5 ins 16 ins in ground for 1/4 sec cor. marked 1/4 on N. face. raise mound of stone 2 ft base, 1½ ft high N of cor. Pits impracticable.
41.00	Descend abruptly
46.00	Ascend abruptly.
51.78	Top of ridge bears N and S. Descend into Lose valley.
72.00	Wash dis S.E.
80.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins. in ground for cor of T. 36 and 37 S. R. 2 and 3 W. marked T 36 S. S. 31 on N.E. R. 2 W., S. 6. on S.E. T. 37 S., S. 1. on S.W. and R. 3 W. S. 36 on N.W. faces with 6 notches on each edge and raised a mound of stone 3 ft base 2 ft high S. of cor. Pits impracticable. Land level and mountainous Soil sandy loam and stony 1st and 4th rate Timber none.

South boundary of T.36 S. R.3 W. continued

Cans.	Dense undergrowth on mountainous land on 80.00 chs.
	In order to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows. April 8: At the cor of Ts. 36 and 37 S. Rs 2 and 3 W. latitude 37°38' N longitude 112°07' W. at 4h 00m p.m. l.m.t. I set off 37°38' on the lat. arc; 7°36' N. on the decl arc: determine with the solar a true meridian, and mark a point thereof on a stone firmly set in the ground 5.00 chs N. of the cor. At 12h 09m p.m. l.m.t I observe Polaris at lower culmination in accordance with manual of instructions and mark a point in the line thus determined on the stone formerly set in the ground 5.00 chs N of my station 25 inches West of the point determined by the solar.
	April 9. At 8h 00m a.m. l.m.t I set off 37°38' on the lat arc 7°51' N on the decl arc and determine a true meridian with the solar which coincides with the meridian determined by observation on Polaris. The solar apparatus by P.M. observations defines position for.

the true meridian 0'26" East of and the A.M. observations coincide with the meridian established by Polaris observations; therefore I conclude the adjustments of the instrument is satisfactory.

The magnetic bearing of the true meridian at 8h30m A.M. is N 15°31' W the angle thus determined reduced by the table page 100, gives the mean mag decl 15°2' E

East boundary of T36S R3W

I begin at the cor of T36 and 37 S. R's 2 and 3 W. which I re-established heretofore
Thence I run
North bet secs 31 and 36
Over mountainous land ascending
10.00 Wagon Road from Lassen to Tropic bears N60°W and S60°E
30.00 Foot of cliff ascend abruptly
35.00 Enter heavy timber.
37.00 Top of plateau 300 ft high
40.00 Set a sandstone 18x8x5 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
Pine 10 ins diam bears N45°E 9 lks dist marked 1/4 S.B.T.
Pine 9 ins diam bears N78°W 36 lks dist. marked 1/4 S.B.T.
52.00 Leave heavy timber and descend abruptly from plateau
72.00 Foot of plateau ascend gradually
80.00 Set a sandstone 12x8x6 ins 8 ins in the ground for cor of secs 25, 30, 31 and 36 marked with 1 notch on S and 5 notches on N edges and raised a mound of stone 2 ft base 1½ ft high N of cor, pits impracticable
Land mountainous
Soil sandy loam clay and gravel
1st and 4th rate.
Timber pine, cedar
Mountainous land or dense under-growth on 80.00 chs

April 9: At 9 h 00 m a.m. t.m.t. I sch off 37°39' N on the lat arc 7°52' W on the declare and determined a true meridian with the solar at the cor of secs 25, 30, 31 and 36

East boundary of T. 36 S. R. 3 W.

Chains	
	Thence Train North between secs 25 and 30 Over mountainous land
5.00	Ascend
21.00	Ridge 100 ft high brs E and N. descend
40.00	Set a sandstone 12×12×8 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face: dig pits 18×18×12 ins N. and S. of cor. 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor
44.00	Ascend
80.00	Set a sandstone 14×14×4 ins 10 ins in the ground for cor. of secs 19, 24, 25 & 30 marked with 2 notches on S. and 4 notches on N. edges. Dig pits 18×18×12 ins in each sec 5½ ft dist and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land Mountainous
	Soil clay and gravel with rate.
	No timber
	Mountainous land on 80.00 chs.

	North between secs 19 and 24 Over mountainous land ascending
16.00	Ridge 100 ft high brs E and N. descend
24.00	Dry wash brs E. ascend
40.00	Set a sandstone 18×10×10 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N. face. and raised a mound of stone 2 ft base 1½ ft high N. of cor Pits impracticable.
	Foot of impassable cliffs 300 ft high therefore abandon the line here.
	Land Mountainous
	Soil gravelly and stony with rate
	No timber Mountainous land on 40.00 chs

General Description.

Most of the township is very mountainous. The Northwestern part lies on top of a high plateau. The Southeastern part follows along the foot of perpendicular bluffs 1000 feet in height. The South eastern part can be subdivided but the central part can not. The township is poorly supplied with water.

Alfred B. Lewis.
U.S. Dep. Sur.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

.....

SEAL

.....

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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 ..... United States Surveyor General for ....., bearing date of t ..... day of ....., 189 , 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 ....., the Manual of Surveying Instructions, and the laws of t United States, surveyed all those parts or portions of .....

.....

.....

.....

..... 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 Survey General for ..... and in the specific manner described in the field notes, and tl the foregoing are the original field notes of such survey; and should any fraud be detected, I will suf the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

United States Deputy Survey

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

.....

.....

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30th, 189

The foregoing field notes of the survey of the South & East Boundaries of Township 36 South, Range 3 West of the Salt Lake Base & Meridian, Utah

.....

.....

.....

.....

executed by Alfred B. Lewis under his contract No. 211, dated Oct 7th, 189 6, having be critically examined, and the necessary corrections and explanations made, the said field notes, and t surveys they describe, are hereby approved.

Jacob Blackburn

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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BOOK A-246

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township 36 South Range 3 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 271, dated Oct 7th, 1896

Survey commenced April 12th, 1897

Survey completed April 13th, 1897

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M. Sec. No.
Abs. Note 8-20-13

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Mounduman
Frank L. Goodhue	Flagman

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... , *Chainma*

..... , *Chainma*

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

SEAL

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

.....

..... , *Moundma*

..... , *Moundma*

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

SEAL

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

.....

..... , *Axma*

..... , *Axma*

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

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 ....., 189

SEAL

Subdivisions of T. 36 S., R. 3 W.

Chains.	
	Survey commenced April 12, 1897 and executed with an L. R. Strasburger transit fully described and listed as shown in the field notes of the survey of the S. bdy of T. 36 S. R. 3 W. dated April 8th 1897 (see book "D")
	April 12: At 8h 00m a.m. l. m. t. obsd off 37°38' on the tab arc; 8°57' N on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 1, 2, 35 and 36. which obsd Apr 9. Var 15°-30' E
	Thence Drum
	N 0°01' W. bet secs 35 and 36
	Over rolling land
6.26	Fence. enter stick 80 ft wide bears E. and W.
7.46	Fence bears E. and W.
38.83	Fence bears E. and W.
40.00	Set a sandstone 14 x 8 x 5 ins 10 ins in ground for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
	Ascend abruptly a stony ridge bears E. and W.
54.00	Descend over rolling land
68.00	Creek 8 lks wide dis S. 30° E.
80.00	Set a limestone 18 x 8 x 6 ins 14 ins in ground for cor of secs 25, 26, 35 and 36 marked with 1 notch on S. and 1 notch on E edges: and raise a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	Land rolling and mountainous
	Soil sandy loam and stony 1st and 4th rate.
	No timber
	Dense undergrowth or mountain on 80.00 chs

Subdivisions of T.36 S. R.3 W. continued

Chains.	
	Back on a random line bet secs. 25 and 36
40.00	Set temp 1/4 sec. cor.
80.03	Intersect E bdy of Tp at cor of secs 25, 30, 31 and 36 which Set Pos. 9 ch.
	Thence Drun
	West bet secs. 25 and 36
1	Over rolling and mountainous land
10.00	Ascend
40.01½	Set a cedar post 3 ft. long 4 ins dia; with marked stone 24 ins in ground for 1/4 sec. cor. marked 1/4 S on N. face; dig pits. 18x18x12 E. and W. of post 3 ft. distant and raise a mound of earth 3½ ft. base 1½ ft high N. of cor.
41.00	Top of ridge 150 ft high, bears N.x.S. descend
77.00	Enter level land
80.03	The cor. of sec. 25, 26, 35 and 36
	Land level and mountainous
	Soil sandy loam and clay mixed with gravel 1st and 4th rate.
	No timber
	Mountainous land or dense undergrowth on 80.03 chs.
	N 0°01' W bet Secs 25 and 26
	Over level land through dense sage
40.00	Set limestone 12x8x6 ins 8 ins in ground for 1/4 sec. cor. marked 1/4 on N face. dig pits 18x18x12 ins N and S of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft high W. of cor.
80.00	Set limestone 14x10x8 ins 10 ins in ground for cor of secs. 23, 24, 25 and 26, marked with 2 notches on S and 1 notch on E edges

Subdivision of T.36.S. R.3.W. continued

Chains	dig pits 18x18x12 ins. in each sec. 3½ ft dish and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land level
	Soil sandy loam and gravel Prairie
	No timber
	Dense undergrowth on 80.00 chs.
	Each on random line bet secs 24 and 25
40.00	Set temp 1/4 sec. cor.
80.10	Intersect E. bdy of Tp. at cor of secs. 19, 24, 25 and 30.
	Thence Down
	West over mountainous land ascending
40.05	Set a sandstone 12 x 8 x 6 ins 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins E and N. of stone 3 ft dish and raise a mound of earth 3½ ft. base 1½ ft high N of cor.
60.00	Top of ridge 300 ft high bears Land N. descend abruptly
72.00	Foot of ridge
80.10	The cor of secs. 23, 24, 25 and 26
	Land mountainous
	Soil clay and stony.
	No timber
	Mountainous land on 80.10 chs.

April 12: At this corner back off 9°00' N. on the decl. arc and observed the sun on the meridian. The resulting latitude is 37°40'

Chains	
	North 0°01' W. bet secs 23 and 24
	Over mountainous land ascending
8.47	Wire fence bears E and W.
36.00	Top of ridge 100 ft high bears S.W.
40.00	Set a white sandstone 16 x 10 x 4 ins
	12 ins in ground for 1/4 sec. cor.
	marked 1/4 on W face. from which
	a pine 10 ins diam. bears N 26° W. 44 lks dist.
	marked 1/4 S. B T.
	No other trees within limits &
	raise a mound of stone 2 ft base
	1½ ft high W of cor.
	It is impracticable.
	The line further N. being
	impracticable on account of
	cliffs 700 feet high and continuous breaks which cannot be
	surveyed I abandoned the
	line here.
	Land mountainous.
	Soil sandy and rocky; 4th rate
	No timber
	Mountainous land on 40 chs

	From the cor of secs 2, 3, 34 and
	35. on the S. bdy which I set
	a pine 9. Drum
	N 0°01' W bet secs 34 and 35
	Over level land
1.40	Dry wash dir. E.
4.71	Fence, enter strip 80 ft wide bear E. W.
5.91	Fence bears E and W.
9.51	Fence bears E and W.
13.8	Fence enter strip 80 ft wide
40.00	Set white sandstone 20 x 12 x 4 ins.
	15 ins in ground for 1/4 sec. cor.
	marked 1/4 on W. face; dig pits
	18 x 18 x 12 ins N. and S. of stone
	3 ft dist. and raise a mound of
	Earth 3½ ft base 1½ ft high W. of cor.

Subdivisions of T.36 S. R3 W. continued

Chains	
57.00	Ascend
60.00	Top of ridge 40 ft high brs E and W. descend
62.00	Foot of slope enter level land
68.06	Thence bears E and N.
74.50	Ascend
80.00	Set a sandstone 24 x 10 x 5 ins 18 ins in the ground for cor of secs 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable. Land level and rolling Soil sandy loam 1st rate. No timber Dense undergrowth on 80.00 chs
	East on a random line bet secs 26 and 35
40.00	Set temp 1/4 sec cor.
80.00	Intersect N. and S line 5 links N. of cor. of secs 25, 26, 35 and 36 Thence run N 89°58' W on a true line bet secs 26 and 35 Over level land
3.50	Creek 8 lks wide dry South ascend
13.00	Top of ridge 50 ft high brs N. W and S.E. descend
17.00	Enter level land
39.50	Wagon road from Tropico to Pauguitch brs N. and S.
40.00	Set a sandstone 14 x 8 x 8 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins E and W. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high

Subdivision of T36N R3W continued

Chains	
	N. of cor.
40.07	Wire fence bro N and S.
	Enter cultivated field
60.10	Wire fence bro N and S.
	Leave cultivated field
79.50	ascend
80.00	The cor. of secs 26.27.34 and 35
	Land level and rolling
	Soil sandy loam and stony
	1st and 4th rate
	No timber
	Dense undergrowth on 80.00 chs.
	April 12 1897

April 13: At 8 hours a.m. l.m.t.
I set off 37°39' N on the Solar c:
90°19' N on the dial arc and deter-
mined a true meridian with the
solar at the cor of secs 26.27
34 and 35.
Thence I run
N 0°01' W. bet secs 26 and 27
Over mountainous land descending
13.50 Foot of slope ascend
31.00 Top of low ridge bro E and W.
descend into small ravine
32.10 Bottom of ravine at foot of
perpendicular breaks 100 ft
high with a cross on rock 10x
8x6 feet firmly imbedded in
ground for witness cor 6 1/4 chains W.
N.C. W on W side of cross.
Ascend mounds impracticable
Ascend abruptly
80.00 The true cor point falls in inac-
cessible brake and can not be
set.
Therefore I abandon the line
here.
Land Mountainous
Soil stony 4th rate

Subdivisions of T. 36 S. R. 3 W. continued

No timber
Mountainous land on 40.00 chs

From the cor of secs 23, 24, 25 and 26 I run
N 89° 58' W on a true line bet secs 23 and 26
Over rolling land descending
11.00 Enter dense cedars.
16.00 Dry wash drs South
19.00 Dry wash drs South
32.00 Creek 6 lks wide drs S 10° E ascend
35.80 Fence bears N. W. and S. E.
36.00 Wagon road from Tropic to Panguitch bears N. and S.
40.00 Blaze a pine 8 ins diam for 1/4 sec cor marked 1/4 S. on N. face from which
A pine 10 ins diam bears N 46° E 77 lks dist. marked 1/4 B. T.
A pine 12 ins diam bears S. 72° W. 61 lks dist. marked 1/4 B. T.
It being impracticable to continue the line on account of precipitous mountains I abandon the line here
Land mountainous and rolling
Soil stony 4th rate
Timber cedar and pine
Mountainous land and dense undergrowth or heavily timbered on 40.00 chs.

From the cor of secs 26, 27, 34 and 35 I run
N 1° W on a true line bet secs 27 and 34.
Over broken land ascending
24.00 Foot of perpendicular bluffs

Subdivisions of T. 36 S. R. 3 W. - continued

Chain	
	Set a sandstone 12 x 10 x 4 ins. 8 ins. in the ground for witness cor. to 1/4 sec cor. marked W. C. 1/4 on W face and raised a mound of stones 2 ft base 1½ ft high. W. of cor. Pits impracticable
40.00	This true point for 1/4 sec cor. falls in perpendicular bluffs and cannot be set therefore I abandon this line here
	Land mountainous
	Soil stony 4th rate
	No timber
	Mountainous land on 40.00 chs.
	From the cor. of secs. 3, 4, 33 and 34 on S. Bdy. of Tp. which I set herebefore I run
	N. 0°03' W. bet. secs. 33 and 34
	Over very broken land
50.0	Ascend abruptly
13.00	Top ridge brs. E and W. descend
20.00	Hollow brs. S.E. ascend abruptly
29.00	Top ridge brs. E and W. over ridges and gulches
35.00	Set a sandstone 24 x 10 x 5 ins. 18 ins. in the ground for witness cor. to 1/4 sec cor. marked W.C. 1/4 on W face from which
	A pine 16 ins. diam. bears N. 46° E. 11 lks. dist. marked 1/4 S. B.T.
	A pine 14 ins. diam. bears S. 26° E. 13 lks. dist. marked 1/4 S. B.T.
40.00	Falls in perp. bluffs and cannot be set therefore I abandon this line
	Land mountainous
	Soil stony 4th rate
	Timber scattering cedar and pine
	Mountainous land on 40.00 chs.

April 18 1899

General Description

Only a small portion of this township is suitable for agriculture on account of its lying along the rim of the Great Basin in precipitous breaks on account of which it is impossible to survey the central portion. In the South Eastern part the land is level and rolling and the soil is a rich sandy loam. The surveyed portion contains scrub pine and Cedar timber in a few places.

A small stream flows south easterly through secs 26 and 36 and furnishes a small supply of water for irrigation. The town of Prospie lays across the South body of the township partly in secs 34 and 35. It contains two stores, a Meeting House and about 300 inhabitants. The principle occupations are farming and stock raising. All the land cultivated belongs to citizens living in this town. There are no indications of Mineral.

Alfred B. Lewis
W. J. Kirkpatrick

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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.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30th, 1895

The foregoing field notes of the survey of the subdivision lines of Township 4 South, Range 3 West of the Salt Lake Base and Meridian, Utah

executed by Alfred B. Lewis under his contract No. 211, dated October 1st, 1894, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair

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-246

No. 7.13.

FIELD NOTES

OF THE SURVEY OF THE

South Boundary

of

Township 36 South Range 2 West

Of the Salt Lake East and Meridian,

In the State of Utah

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced April 16th, 1897

Survey completed April 16th, 1897

6—151

[illegible] 5-27-98

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman.
Ernest M. Pratt.	Chainman.
Samuel C. Lewis	Marksman.
Frank L. Goodwin.	Flagman.

6—151

Volume
#
R0246

BOOK A-246

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.....

6—221

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

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

.....

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

6—151

South boundary of T. 36 S., R. 2 W.

Survey commenced April 16, 1897 and executed with an L. R. Ahrensberger transit with solar attachment fully described and tested as shown in the field notes of the survey of the exterior of T. 36 S. R. 3 W. Dated April 7, 1897 (See book D.)

On account of impassable cliffs and precipitous mountains I could not continue the 7th Standard Parallel East in accordance with the special instructions. Therefore I proceed as follows.

I begin at the cor. of Ts. 36 and 37 S., Rs. 2 and 3 W. which I left April 8

April 16: At 7 h 00 m a.m. l.m.t I left off 37° 38' on the lat. arc; 10° 23' N. on the decl. arc, and determine a true meridian at the cor. of Ts. 36 and 37 S., Rs. 2 and 3 W. which coincides with the meridian established by my Polaris observation made April 8.

Thence I run

East bet. secs 6 and 31 on the S bdy. of T. 36 S. R. 2 W.

Over level land.

8.00	Dry wash drs. S.
8.80	Fence along E. bank of wash
24.83	Fence bears N and S.
25.43	Middle of slough 80 ft wide bears N and S. Enter the deserted town of Lasse.
35.86	Middle of slough 80 ft wide bears N. & S.
36.46	Fence bears N. and S.
37.78	Allowing for convergency.

South boundary of T. 36 S. R. 2 W. continued

Chains	
	Set a sandstone 12 x 8 x 8 ins. 8 ins in ground for 1/4 Sec. cor. marked 1/4 on N. face. dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft dist. and raised a mound of earth 3½ ft. base, 1½ ft high N. of cor.
41.17	Fence bears N. and S.
44.63	Fence bears N. and S.
51.56	Fence bears N and S.
52.16	Middle of street 80 ft wide
52.75	Fence bears N. and S.
56.44	Fence bears N. and S.
66.67	Dry wash dir S. W.
72.61	Dry wash
77.78	Allowing for convergency
	Set sandstone 14 x 10 x 10 ins 10 ins in ground for cor of secs 5, 6, 31 and 32, marked with 5 notches on E and 1 notch on W. edges, and raise a mound of stone 3 ft base 2 ft high W. of cor.
	Pits unpracticable.
	Land level.
	Soil sandy loam and gravelly: 1st and 2nd rate
	No timber.
	Dense undergrowth on 77.78 chs.
	East bet. secs. 5 and 32
	Over level land
19.50	Fence bears N. and S.
32.46	Fence bears N E. and S W.
40.00	Set a cedar post 3 ft long, 4 ins sq. with marked stone 24 ins. in ground for 1/4 Sec. cor. marked 1/4 S on N. face: dig pits 18 x 18 x 12 in. E. and W. of post 3 ft dist, and raise a mound of earth 3½ ft. base 1½ ft high N. of cor.
46.50	Fence bears N. E. and S. W.

South boundary of T36 N. R2, W. continued

Chains	
80.00	Set limestone 18x12x12 ins. 12 ins in ground for cor of secs. 4, 5, 32 and 33. marked with 4 notches on E and 2 notches on W edges. and raise a mound of stone 3 ft base 2 ft high W. of cor. Pits impracticable. Land level. Soil sandy and gravelly 1st and 2nd rate. No Timber. Dense undergrowth on 80.00 Chs.
	East bet secs 4 and 33. Over mountainous land Ascending.
25.50	Abrupt ascent. Entire dense cedar
34.50	Top of plateau. 500 feet high
40.00	Set a sandstone 14x12x4 ins, 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Apine quis diam. bears N.4° E. 43 lks dist. marked 1/4 S. B.T. Apine 12 ins. diam. bears S.23° E 43 lks dist. marked 1/4 S. B.T.
50.00	Ascend ridge
59.00	Top of ridge 150 feet high trees N. and S.
68.00	Scant dense cedar - foot of bluff ascend
80.00	Set a sandstone 16x12x4 ins 12 ins. in ground for cor. of secs 3, 4, 33. and 34 marked with 3 notches on E and W. edges. dig pits 18x18x12 ins in each sec. 5½ ft. deep and raise a mound of earth 4 ft. base, 2 ft. high. W. of cor. Land mountainous. Soil rocky 4th rate.

South boundary of T. 36 S. R. 3 W. - continued

Chains.	
	Timber cedar and pine.
	Mountainous land on 80.00 chs.
	Heavy timber on 42.50 chs.
	East bet secs. 3 and 34
	Over mountainous land, ascend
7.00	Enter dense cedars
40.00	Marked cedar bur 18 ins diam. for 1/4 sec. cor with 1/4 Don N. face. from which
	A pine 12 ins diam. bear S. 4° E. 57 lks dist. marked 1/4 S. B. T.
	A cedar 14 ins diam. bears N. 19° W. 27 lks dist. marked 1/4 S. B. T.
49.00	Edge of canon dis S. E.; have cedars desc
54.00	Bottom of canon dis S. E.
60.00	Cross canon, descend abruptly over broken land
80.00	Set a sandstone 12 x 8 x 5 ins 10 ins. in ground with some small stones, for cor of secs. 2, 3, 34 and 35. marked with 2 notches on E. and 4 notches on W. edges from which
	A rock in place 6 x 4 x 2 ft. bear S. 11° E. 50 lks dist. marked B.O..
	No other bearing objects, and mound of earth and pits impracticable.
	Land mountainous
	Soil rocky; 4th rate.
	Timber cedar and pine.
	Mountainous on 80.00 chs.
	April 16: At 00 h 00 m l. m t Dec off 10° 28' N on the decl. arc, and observed the sun on the meridian the resulting lat is 37° 38' N.

South boundary of T 36 S. R 2 W.

East bet secs 2 and 35
Over mountainous land
14.50 Dry wash dir South ascend
33.00 Top of ridge 150 ft high bts N and S.
descend
40.00 Set a sandstone 14×10×8 ins
10 ins in the ground for 1/4 sec
cor. marked 1/4 on N face. dig
pits 18×18×12 ins E and W of
stone 3 ft dist and raise a
mound of earth 3½ ft base
1½ ft high N. of cor.
ascend gradually
50.00 Ascend abruptly
60.00 Top of plateau 401 ft above
cor. over rolling land descending
70.00 Descend abruptly.
80.00 Set a sandstone 18×12×3 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: dig pits 18×18×12 ins
in each sec 5½ ft dist and
raise a mound of earth
4 ft base 2 ft high N. of cor.
Land mountainous
Soil stony 4th rate
Timber scattering cedars
Mountainous land on 80.00 chs.

East bet secs 1 and 36
Over mountainous land descending
15.00 Bottom of hollow ascend
37.13 Top of plateau 500 ft high
Descend abruptly
40.00 Set a sandstone 14×8×5 ins 10 ins
in the ground for 1/4 sec cor.
marked 1/4 on N face, and raised
a mound of stone 2 ft base
1½ ft high N of cor. pits impracticable

South boundary of T 36 S. R 2 W.

Chains	
55.00	Descend from plateau over perpendicular brakes
72.30	Bottom of gulch drs S 20° W. It being impracticable to run further each. on account of perpendicular cliffs at this point Set a sandstone 12×10×10 ins 8 ins in the ground for witness cor to cors of Sec 36 and 31 & R 1 and 2 W. Marked M.C. 36 S. on N.E.; 1 W. on S.E., 31 S. on S.W. and 2 W on N.W faces with 6 notches on each edge: dig pits 24×24×12 ins on each line N.E. and W 4 ft and S 8 ft dist. and raise a mound of earth and stone 5 ft base 2½ ft high S. of cor.
72.50	Dry wash drs S 20° W. ascend abruptly
80.00	The cor to Sec 36 & 31 T 3 S R 1 & 2 W. falls in perpendicular brake and cannot be set. Land mountainous Soil stony 4th rate Timber scattering fir & cedars Mountainous land on 80.00 chs.

April 16. 1897

General Description.

This Township is very mountainous in the northern and eastern parts. On account of impassable mountains and box canons I find it impossible to run the East body. In the South western part of the township there is a fertile valley which can be surveyed. The township is poorly supplied with water.

Alfred B Lewis.
U.S. Dep Sur.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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....., *Chainman.*

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....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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.....

.....

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

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....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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186-101
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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 ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30th, 1898

The foregoing field notes of the survey of the South Boundary of T. 36 S. R. 2 W. of the Salt Lake Base & Meridian, Utah

.....

.....

.....

.....

.....

executed by Alfred B. Lewis under his contract No. 211, dated October 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair

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.

Examined

BOOK A-246

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township 36 South, Range 2 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced April 19th, 1897

Survey completed April 21st, 1897

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W. Chs. Blks -
Sub. Sects 19 - 35 - 25

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman.
Ernest M. Pratt.	Chainman.
Samuel C. Lewis	Rodman.
Frank L. Goodwin.	Flagman.

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BOOK A-246

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

.....

.....

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

.....

.....

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

.....

..... *Axman.*

..... *Axman.*

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

SEAL

.....

.....

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

..... *Flagman.*

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

SEAL

.....

.....

Subdivisions of T. 36 S., R. 2 W.

Survey commenced April 19, 1897 and executed with an L. R. Strasburger transit with solar attachment fully described and listed as shown in the field notes of the survey of the South boundary of T 36 S. R 3 W. dated April 7 (Subdivd)

April 19: At 8 h 00 m. a.m., l.m.t. Deck off 37°38' on the lab. arc; 11°26 N. on the deck arc: and determined a true meridian with the solar at the cor. of secs 5, 6, 31 and 32 on the S. bdy of T. 36 S., R. 2, W. which I established April 16.

The East boundary of this township not being established. I begin at the cor. already described. Var 15-30 E

Thence Drain

N 0°01' E bet secs 31 and 32

Over level land

13.00 Wash drs S. W.

40.00 Set sandstone 14 x 12 x 8 ins 10 ins in ground for 1/4 sec. cor. marked 1/4 on W. face. dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3 1/2 ft. base, 1 1/2 ft. high, W. of cor.

80.00 Set sandstone 14 x 14 x 3 ins, 10 ins in ground for cor. of secs. 29, 30, 31 and 32. marked with 5 notches on E. and 1 notch on S. edges. dig pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high, W. of cor.

Land level

Soil sandy loam 1st rate

Subdivisions of 936 A. R. 2 [illegible]

Chains	No timber Dense undergrowth on 1002 abs.
	Met on random line bet. secs. 30 and 31
14.00	Set temp 1/4 sec. cor.
77.70	Intersect N. & S. line at 1/4 cor. of secs. 29, 30, 31 and 36 which I established April 9 Chains from East on a true line bet. secs. 30 and 31
	Over mountainous land through dense brush, ascending top of ridge 150 feet high bears N. and S. descend
10.81	
37.70	Set sandstone 12 x 8 x 6 ins. 8 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face. dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
49.15	Dry wash dir. S.W.
65.80	Dry wash dir. S.W.
77.70	The cor. of secs. 29, 30, 31 and 32. Land level and mountainous Soil stony and sandy loam 4th and 1st rate No timber Mountainous land or dense undergrowth on 77.70 chs.

	Run E. bet. secs 29 and 30 Over mountainous land descend
22.00	Dry wash dir. W. ascend
40.00	Set sandstone 12 x 7 x 5 ins. 5 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face. dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. and raise a

Subdivision of T. 36 S. R. 7 W. continued

Chains	
	mound of earth 3½ ft. base 1½ ft high N. of cor.
64.00	Top of ridge, descend.
80.00	Set sandstone 14×12×8 ins, 10 ins. in ground for cor. of secs. 19, 20, 29 and 30. marked with 5 notches on E and 2 notches on S. Edges dig pits 18×18×12 ins in each sec. 5½ ft dist. and raise a mound of earth 4 ft. base, 2 ft. high, N. of cor.
	Land mountainous.
	Soil sandy 1st rate
	No timber.
	Mountainous land or dense undergrowth on 80.00 chs.
	West on a random line bet. secs. 19 and 30
40.00	Set temp 1/4 sec. cor.
77.60	Intersect N. Tp. line 12 lks N of cor of secs 19, 24, 25 and 30
	Thence Drew
	N 89°55' E on a true line bet secs 19 and 30.
	Over rolling land, descending.
37.60	Set sandstone 12×10×5 ins 8 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18×18×12 ins E. and N. of stone 3 ft dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
70.00	Wash drs. S.
77.60	The cor of sec 19, 20, 29 and 30
	Land rolling
	Soil sandy loam 1st rate
	No timber
	Dense undergrowth on 77.60 chs.

Subdivisions of T. 36 S. R. 2 W. continued

Chains	
	April 19; At 0 hrs 0 m l.m.t. set off 11°28' N on the decl. arc; and observed the sun on the meridian, the resulting lat is 37°40'
	N 0°01' E. bet secs. 19 and 20. Over mountainous land ascending.
40.00	Set a sandstone 12 x 10 x 4 ins 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face. dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high. No pos ascend abruptly.
80.00	Set a sandstone 14 x 10 x 6 ins 10 ins. in ground for cor of secs 17, 18, 19 and 20 marked with 5 notches on E and 3 notches on S edges. and raise a mound of stone 2½ ft base 1½ ft. high. west of cor. Ats impracticable
	Land mountainous Soil sandy and stony. No timber. Mountainous land and dense undergrowth on 80.00 chs. On account of impassable cliffs N. and W. of this cor. I abandon the line here. April 19th 1897.

Subdivisions of T. 36 S. R. 2 W.—continued

Chains	
	April 20: At 4 hour a. m. l. m. t I set off 37°38' on the lat. arc: 11°46' N on the decl. arc: and determined a true meridian at the cor of secs 4, 5, 32 and 33 which I established April 16.
	Thence I run
	N 0°01' E bet secs 32 and 33
	Over rolling land descending gradually
21.10	Small dry wash dir N. ascend
40.00	Set a sandstone 12×12×4 ins, 8 ins in ground for 1/4 sec. cor. marked 1/4 on N. face. dig and raise a mound of stone 2½ ft base 1½ ft high N. of cor. pits impracticable
42.00	Top of ridge descend
64.00	Creek bed dry ascend
80.00	Set limestone 12×8×8 ins. 8 ins in ground for cor. of secs. 28, 29, 32 and 33 marked with 1 notch on S and 4 notches on E edge dig pits 18×18×12 ins in each sec. 5½ ft. dist. and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land rolling and mountainous
	Soil sandy loam and stony: 1st and 4th rate
	No timber
	Mountainous land and dense undergrowth on 80.00 chs.
	Meas on random line bet secs 29 and 32
40.00	Set temp 1/4 sec. cor.
80.00	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

Subdivision of T.36 N. R.2 W. continued

Chains	
40.00	Set a sandstone 12x10x6 ins 8 ins in ground for 1/4 sec. cor. Marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high. N. of cor. pits unpassable cable
80.00	The cor. of secs. 28, 29, 32 and 33. Land level. Soil sandy loam with some stone. No timber. Dense undergrowth on 80.00 chs.
	N. 0° 01' E. Sch secs. 28 and 29. Our rolling land ascending.
40.00	Set sandstone 18x8x4 ins. 12 ins in ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins N. and S. of stone 3 ft disk; and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
57.00	Wound tree broken radius
80.00	Set sandstone 12x18x5 ins, 8 ins in ground for cor. of secs 20, 21, 28 and 29 marked with 4 notches on E. and 2 notches on S. edges; dig pits 18x18x12 ins on each 3½ ft disk sec. and raise a mound of earth 4 ft base 2 ft high N. of cor. Land rolling and mountainous. Soil sandy loam and clay red and with rock. No timber. Mountainous land or dense undergrowth on 80.00 chs.

Subdivision of T. 36 S. R. 2 W. continued.

Chains	
	Mash on a random line bet secs 20 and 29
40.00	Set iron 1/4 sec. cor.
80.15	Intersect N. and S. line 6 lks S of cor of 19, 20, 29 and 30.
	Thence Drum
	S. 89° 57' E on a true line bet secs. 20 and 29
	Over broken ridges ascending
40.07½	Deposited marked stone 12 ins in ground for 1/4 sec. cor, dug pits 18 x 18 x 12 ins E. and W. of cor. 4 ft dist and raised a mound of earth 3½ ft base 1½ ft high over deposit. On E pit drove a stake 2 ft long 2 ins S of 12 ins in ground marked 1/4 S. on W. face.
47.00	Top of ridge 100 feet high, descend
65.00	More gradual descent.
71.00	Dry wash drs S. ascend
80.15	The cor of secs. 20, 21, 28 and 29.
	Land rolling and mountainous
	Soil clay mixed some sand.
	No timber
	Mountainous land or dense undergrowth on 80.15 chs.
	April 20: At this cor. I set off 11° 49' N. on the decl. arc at 0h 0m Gmt and observed the sun on the meridian: the resulting lat is 37° 40'
	N 0° 01' E bet secs 20 and 21
	Over mountainous land ascend
33.00	Dry wash drs S. W.
40.00	Set sandstone 14 x 10 x 8 ins, 10 ins in ground for 1/4 sec. cor. marked

Subdivisions of T. 36 N. R. 27 W. continued

Chains	
	1/4 on W. face: dig pits 18×18×12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
	Over very broken hills
80.00	Set sandstone 16×10×6 ins, 11 ins. in ground for cor. of secs. 16, 17, 20 and 21. marked with 3 notches on S. and 4 notches on E edges: dig pits 18×18×12 ins in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land mountainous.
	Soil clay 3rd rate
	No timber
	Mountainous land on 80.00 chs.
	N. 89°57' W on a random line bet. secs. 17 and 20
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N. and S. line 11 lks S. of cor. of secs. 17, 18, 19 and 20
	Thence True
	S. 89°52' E on a true line bet. secs. 17 and 20
	Over mountainous land, descend abruptly
120.00	Mark dis. S.
340.00	Mark dis. S.
40.00	Set sandstone 16×13×4 ins 11 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face: dig pits 18×18×12 ins E. and W. of stone 3 ft dist. and raise a mound of earth 3½ ft. base 1½ ft high W. of cor.
53.00	Ascend
80.00	Th. cor. of secs. 16, 17, 20 and 21.
	Land mountainous
	Soil clay and sand 3rd rate

No timber
Mountainous land or dense
undergrowth on 80.10 chs.
On account of impassable
cliffs on the N. and E. of this
cor. I abandon the line here.
April 20, 1897

April 21: At 8 h 00 m a.m. l.m.t.
I set off 37°38' on the lat. arc:
12°06' W on the decl. arc: and
determine a true meridian at
the cor. of secs 3, 4, 33 and 34
which I established April 16.
Thence I run
N 0°02' E bet. secs. 33 and 34.
Over mountainous land
12.00 Enter dense cedars
13.00 Descend abruptly from plateau.
40.00 Set white sandstone 12x10x6 ins.
8 ins. in ground for 1/4 sec. cor.
marked 1/4 on W. face, from which
Cedar 20 ins diam. bears S 31½° E 42 lks dist.
marked 1/4 S. B. T.
A pine 14 ins diam. bears S. 48° W. 32 lks dist.
marked 1/4 S. B. T.
44.00 Leave timber.
55.00 Enter bottom
80.00 Set white sandstone 14x8x5 ins.
12 ins in ground for cor. of secs.
27, 28, 33 and 34, marked with
1 notch on S. and 3 notches on E
edges: dig pits 18x18x12 in in
each sec. 05½ ft. dist. and raise
a mound of earth 4 ft base 2 ft
high W. of cor.
Land mountainous and level.
Soil sandy loam and stony, 1st
and 4th rate.
Timber cedar and pine.
Mountainous land or dense undergrowth on
80.00 chs

Subdivisions of T.36 S. R.2 W. continued

Chains	
	West on a random line bet. secs 28 and 33
40.00	Set temp 1/4 sec. cor.
79.70	Intersect N. and S. line 20 lks N. of cor. to secs. 28, 29, 32 and 33.
	Thence Strm
	N 89°51' E on a true line bet. secs 28 and 33.
	Over rolling land
15.00	Enter cedars.
35.00	Wash drains S.W. leave cedars
39.85	Set sandstone 12 x 10 x 5 ins. 8 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
79.70	The cor. of secs. 27, 28, 33 and 34
	Land level and rolling.
	Soil sandy loam 1st rate
	Timber cedar.
	Dense undergrowth on 79.70 chs.

	N 0°02' E bet secs. 27 and 28
	Over rolling land
12.00	Wagon track bears E. and W.
14.00	Enter dense timber.
30.00	Leave dense timber.
36.70	Wash. drains S.W.
40.00	Set sandstone 12 x 10 x 8 ins 8 ins in ground for 1/4 sec. cor. marked 1/4 on W. face: and raise a mound of stone 2 ft. base 1½ ft high W. of cor. pits impracticable
	Ascend gradually.
55.00	Ascend abruptly.
80.00	Set white sandstone 14 x 10 x 4 ins. 10 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;

Subdivision of T36 S R2 W. continued

Chains	
	dig pits 18×18×12 ins in each sec. 6½ ft dist. and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.
	Land level and mountainous. Soil sandy loam and stony! 1st and 2nd rate
	Timber cedar.
	Mountainous land or, dense undergrowth on 80.00 chs.
	As it is impracticable to run further N. and W. on account of impassable cliffs I abandon the line here.
	From the cor. of secs. 2, 3, 34 and 35 on the S. bdy of the Tp. which I took Apr 16 Drum N 0°13' E. bet. secs. 34 and 35 Over mountainous land, ascending abruptly. 300 feet.
34.00	Top of plateau with cedars & pines.
40.00	Set a limestone 14×12×6 ins, 10 ins. in ground for 1/4 sec. cor. marked ¼ on N. face. and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. pits impracticable.
	Over very broken country
60.50	Ascend abruptly.
70.00	Set a quartzite stone 12×8×8 ins. 8 ins. in ground for cor. of secs. 26, 27, 34 and 35, marked with 1 notch on S. and 2 notches on E. edges. From which
	Cedar 8 ins. diam. bears N. 49½° E. 51 lks. dist. marked T36 S R2 W S26 B.T.
	Cedar 24 ins. diam. bears S. 44½° E. 8 lks. dist. marked T36 S R2 W S35 B.T.

Subdivisions of T.36 S. R.2 W. continued.

Chains	
	Pecan 8 in diam. bears S. 70½° W. 30 lks dist. marked T36 S R2 W, S34 B.T.
	Pecan 8 in diam bears N 44½ W. 88 lks dist marked T36, S., R2 W. S27, B.T.
	Land mountainous
	Soil stony; 24 ch rate
	Timber pine and cedar
	Mountainous land on 80.00 chs.
	Mesh on a random line bet secs 27 and 34
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S. line at cor of secs 27, 28, 33 and 34
	Thence Drun
	East on a true line bet. secs. 27 and 34
30.00	Ascend abruptly enter dense cedars
37.50	Top of plateau 500 feet high
40.00	Set a sandstone 24×14×8 in 18 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face. from which
	Apine 12 in diam. bears N. 43° E, 21 lks dist, marked 1/4 S., B.T.
	Apine 11 in diam bears S 14° E. 18 lks dist marked 1/4 S., B.T.
	Through dense cedars
80.00	The cor of secs. 26, 27, 34 and 35.
	Land mountainous
	Soil stony; 14 ch rate
	Timber cedar and pine.
	Mountainous land and heavily timbered or dense undergrowth on 80.00 chs.
	14.00 chs east of this cor. cliff break down 600 feet and the country is impassable
	N. 0° 03' E. bet. secs. 26 and 27
	Over mountainous land
	ascend through dense cedars.
7.00	Top of ridge on plateau descend

Subdivisions of T36 S. R2 W continued

Chains	
39.00	Foot of bluff 500 ft high bare dense cedars, descend gradually
40.00	Set a sandstone 14x12x6 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on W. face; dig pit 18x18x12 ins N and S. of stone 3 ft deep and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W of cor.
43.00	Wagon road to timber bears N.E. and S.W. enter dense cedars
51.00	Creek 8 lks wide bears S.W. ascend
54.50	Foot of cliff 75 ft high ascend abruptly.
54.96	Top of cliff, ascend gradually over very broken land.
71.00	It is impracticable to run further N. on account of precipitous mountains, therefore set a sandstone 16x16x4 ins 11 ins in the ground for witness cor to cor of secs 22, 23, 26 and 27 marked W.C. on N.E. face with 2 notches on S. and E. edges, from which Ofnis bis diam bears N 14° E. 28 lks dist. marked T36 S. R3 W. S23 W.C.B.T. Ofnis bis diam bears S 10° E. 28 lks dist marked T36 S. R3 W. S26 W.C.B.T. Ofnis bis diam bears N 5° W. 53 lks dist. marked T36 S. R3 W. S22 W.C.B.T. Ofnis bis diam bears N 77° W. 70 lks dist. marked T36 S. R3 W. S22 W.C.B.T.
80.00	The cor of secs 22, 23, 26 and 27 falls in an inaccessible cliff and cannot be set.

Land mountainous
Soil stony and rocky
Timber pine and cedar
Mountainous land or heavily timbered
on 80.00 chs.

Subdivisions of T.36 S. R.2 W. continued

Chain

It being impracticable to run West on the N side of sec 27, therefore from the 1/4 sec cor bet secs 26 and 27 I run West on a random line offset line 40.00 chs, thence N 0°12' E 40.00 chs, to line bet secs 22 & 27.

40.00 Set temp 1/4 sec cor. thence West

80.00 Intersect N and S. line at cor of secs 21, 22, 27 and 28. thence I run East on a true line bet secs 22 and 27.

Over mountainous land descending.

110.00 Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins East and W. of stone 3 ft deep and raised a mound of stone 3½ ft base 1½ ft high N of cor.

51.00 Dry wash dry S. ascend abruptly

61.00 It being impracticable to run further East on account of perpendicular Mtn. therefore at this point I set a sandstone 16 x 8 x 4 ins 11 ins in the ground for witness cor. to cor of secs 22, 23, 26 and 27, marked WC on N.E. face with 2 notches on S. and E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.

80.00 The cor of secs 22, 23, 26 and 27 falls in inaccessable place and cannot be set.

Land mountainous

Soil stony 4th rate

Timber cedar and Pine.

Mountainous land on 80.00 chs.

It being impracticable to run further north bet secs 22 and 23 on account of perpendicular mountains therefore

Subdivisions of T36 S. R. 2. W. continued

Chains	
	From the witness cor. which is 9.00 ch S of the cor of secs 22, 23, 26 and 27 I run on offset line as follows, descending.
	East, 15.00 chs cross creek 8 lks wide dry S 20° W. ascend
	At 40.00 chs I run N 0°03' E 9.00 chs to point for 1/4 sec. cor.
40.00	Set a sandstone 18 x 14 x 5 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N. face from which
	Pine 14 ins diam bears N 45° E 15 lks dist. marked 1/4 B. T.
	Pine 12 ins diam bears S 74½° E 40 lks dist. marked 1/4 B. T.
45.00	Dry wash dry S ascend
60.00	It being impracticable to run further East I set a sandstone 20 x 12 x 4 ins 14 ins in the ground for witness cor. to cor of secs 23, 24, 25 and 26 marked W. C on N. E face with 2 notches on N. and 1 notch on E faces, and raise a mound of stone 2 ft base 1½ ft high W of cor.
	Pits impracticable
80.00	The cor of secs 23, 24, 25 & 26 falls in inaccessable cliff and cannot be set
	Land mountainous
	Soil stony 4th rate
	Timber cedar and pine
	Mountainous land on 80.00 chs.

From the witness cor. above described which is 20.00 chs W. of the cor of secs 23, 24, 25 and 26 I run on offset line as follows. N 0°03' E 40.00 chs thence East 17.00 chs to a point 3.00 chs West of the point for 1/4 sec.

cor bet secs 23 and 24 at the foot of perpetuous mountain.
Set a sandstone 18 x 12 x 6 in 12 ins in the ground for witness cor to 14 sec cor to secs 23 & 24 marked W.P. 1/4 on W. face from which
Apple 10 in diam bears N 45½° E 27 lks dist. marked W.C. 14 S. B.T.
Apple 10 ins diam bears S 25° E 50 lks dist. marked W.C. 14 S. B.T.
Land mountainous
Soil stony & rocky
Timber few cedar.
Mountainous land and heavily timbered on 40.00 chs.
On account of perpetuous mountains it is impracticable to run further North. Therefore I abandon the line here.
April 21. 1897

General Description.
This township contains about 8 sections of comparatively level land. The remainder is very precipitous and almost impassable.
The South western part is suitable for grazing and also for cultivation when watered by irrigation. At the time of survey no water was available. The soil in the South western part is rich alluvial. There is but little timber except on the plateaus.
Croppings of coal are found along the ledges but no development has been done and the indications will not warrant any thing returned as coal land. A small stream of water runs down into secs 23, 26, and 27 part of the year

but sinks into the ground before reaching land suitable for cultivation.

The settlers mentioned in the synopsis as applicants for survey live in the town of Lozel which is only occupied for a short period in the summer. At the time of survey it was deserted.

Alfred B Lewis,
U.S. Dep Sur.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

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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 ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

.....

SEAL

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 30, 1898

The foregoing field notes of the survey of The subdivision lines of Township 3 North, Range 2 West of the Salt Lake Base and Meridian Utah

executed by Alfred B. Lewis under his contract No. 211, dated Oct 7, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob T. Blair

United States Surveyor General.

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

.....

United States Surveyor General.

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BOOK A-246

FIELD NOTES

OF THE SURVEY OF THE

West, East and South Boundary

of

Township 37 South, Range 2 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced April 28th, 1897

Survey completed May 3rd, 1897

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		m. ch. lks.
West Boundary		6 — 00 — 00 ✓
East "	"	6 — 00 — 00 ✓
South "	"	5 — 78 — 23 ✓
		17 78 23 ✓

NAMES AND DUTIES OF ASSISTANTS.

James E Beatty	Chainman
Ernest M Pratt	Chainman
Samuel C Lewis	Monumentman
Frank L Goodwin	Flagman

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BOOK A-246

INDEX DIAGRAM.

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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 over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

.....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

West boundary of T. 37 S., R. 2 W.

Survey commenced April 28 and executed with an L. R. Brasseurs transit with solar attachment fully described and tested as shown on pages 1 & 7 of the field notes of the survey of the exteriors of T 36 S. R. 3 W. (see book D.)

April 28: At 8 h 00 m a.m. l. m. t. set off 37° 38' on the sol. arc: 14° 23' N. on the decl. arc and determine a true meridian with the solar which coincides with the meridian established by me April 8 by Polaris observation at the Cor. of Ts 36 and 37 S. R 2 and 3 W.

Thence Drum
South on the W side of T. 37 S. R. 2 W. bet. secs 1 and 6.
Over rolling land.

26.00	Creek 10 lks wide dir S 20° E, Paria River
33.00	Road bro N.E. and S.W. to Lake.
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in ground for 1/4 sec. cor. marked 1/4 S. on W. face, dig pits 18 x 18 x 12 ins N and S. of post 3 ft. dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W of cor.
40.80	Fence bro E. and W.
70.50	Fence bro E. and W.
79.00	Creek 10 lks wide dir. S. 20° W. Paria River
80.00	Set a quartzite 12 x 10 x 5 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

Mish boundary of T37 R2 W continued

Chains	
	dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist and raise a mound of earth 4 ft base 2 ft. high W. of cor.
	Land level but broken
	Soil sandy loam. 1st rate
	No timber.
	Dense undergrowth on 80.00 chs.
	South bet secs. 7 and 12
	Overrolling land along creek flat.
2.00	As the cor of secs 1, 6, 7 and 12 may at some time be overflowed, at this point I set a sandstone 12 x 12 x 8 ins - 8 ins in ground for witness corner cor. of secs. 1, 6, 7 and 12 marked with W.C. on N.E. face and 5 notches on S and 1 notch on N. edges: raise a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.
39.00	Set a flint rock 14 x 8 x 6 ins 12 ins in ground for witness corner to 1/4 sec. marked W.C. 1/4 on N. face; dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
40.00	The true cor. point falls in creek bed. creek drs S. ascend ant of creek bed. Creek 10 lks wide Davis River
44.00	Ascend abruptly
54.00	Top of plateau 400 feet high covered with scattering cedars.
64.00	Edge of plateau, descend abruptly
70.00	Dry wash drs westerly.
80.00	Set a sandstone 12 x 10 x 10 ins 8 ins in ground for cor. of secs. 7, 12, 13 and 18. marked with 4 notches

West boundary of T37S. R2W continued

Chains	
	on the S. and 2 notches on W. edge dig pits 18 x 18 x 12 ins. in each 26.0. 5½ ft. dist. and raise a mound of earth 4 ft base 2 ft high W. of cor.
	Land rolling or mountainous.
	Soil sandy loam on clay 1st and 4th rate.
	Timber scattering cedar and willow
	Mountainous land or dense undergrowth on 80.00 chs.
	South bet. secs. 13 and 18
	Over bottom land
26.00	Wash, with springs towards Eastward.
40.00	Set a limestone 12 x 8 x 6 ins. 8 ins. in ground for 1/4 sec. cor. marked 1/4 on W. face & dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
44.39	Irrigation ditch dis S. E. 8 ft wide
44.89	Descend into creek 10 ft wide Paris Pres
49.37	Ascend out of creek bed. dis S.E
80.00	Set a flint rock 12 x 10 x 8 ins. 8 ins in the ground for cor. of secs 13, 18, 19 and 24, marked with 3 notches on N. and S. edges. dig pits 18 x 18 x 12 ins in each 26 ft dist and raise a mound of earth 4 ft base 2 ft high W. of cor.
	Land rolling and broken
	Soil sandy loam 1st rate
	No timber
	Dense undergrowth on 80 chs.

West boundary of T.37 S. R.2 W. continued

Chains	
	South bet secs 19 and 24 through cultivated fields and the town of Cannonville.
19.76	Fence bears E and W.
36.50	Fence bears Southwesterly.
40.00	Set a sandstone 14×10×6 ins.; 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18×18×12 ins. N. and S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
40.30	Fence bears E and W.
48.00	Intersect fence bs N 2°40' W on E side of street 150 chs wide cross ditch.
	Continue down street
80.00	Intersect west side of street and fence bearing N 2°40' W. Set a cedar post 3 ft long 4 ins. sq with marked stone 24 ins in the ground for cor of secs 19, 24, 25 and 30, marked
	T.37 S. S19 on N.E.
	R.2 W. S30 on S.E.
	S25 on S.W.
	R.3 W. S.24 on N.W.
	Found well 2 notches on S. and 4 notches on W edges; dig pits 18×18×12 ins in each sec, 5½ ft dist and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
	Stand level.
	Soil sandy loam 1st rate
	No timber except orchards etc.
	Pasture undergrowth on 80 chs.

At 28.11 chs this cor. Deck off. 4°25' W on the deck and at 0°00' L.M.T. observed the sun on the meridian. The resulting lat. is 37°34'

West boundary of T.37 S. R.2 W. continued.

Chains	
	South - Leh, sec. 25 and 30
	Over mountainous land
50.00	Foot of sandstone cliff 200 ft high
	Then I offset as follows
	East 2.00 chs. then on offset line
	South 5.00 chs
	West 2.00 chs to the true line
10.20	Trees bears E. and W. descend
40.00	Set a cedar post 3 ft long 4 ins. sq. with marked stone 24 ins. in the ground for 1/4 Sec. cor. marked 1/4 S. on W face. dig pits 18 x 18 x 12 ins N. and S. of post 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
70.00	Ascend abruptly
79.00	Top of plateau 400 feet high
	Enter dense cedars
80.00	Set a cedar post 3 ft long, 4 ins sq. with marked stone 24 ins. in the ground for cor. of sec. 25, 30, 31 and 36 marked
	T.37 S. S 30 on N.E.
	R.2 W. S 31 on S.E.
	S. 36 on S.W. and
	R.2 W. S 25 on N.W. faces, with 1 notch on S. and 5 notches on W. edges from north
	Cedar 12 ins. diam, bears N 61° E. 54 lks dist. marked T.37 S. R.2 W. S.30 B.T.
	Cedar, 12 ins. diam bears N. 6° E. 56 lks dist. marked T.37 S. R.2 W. S.30. B.T.
	Cedar 16 ins. diam. bears S. 40½° E. 101 lks dist. marked T.37 S R.2 W. S.31. B.T.
	Cedar 20 ins diam bears S 21° W. 45 lks dist marked T.37 S. R.2 W. S 36 B.T.
	Land Mountainous and rolling
	Soil sandy and rocky 3d rate.
	Timber cedar
	Mountainous land or dense undergrowth on 800 ch.

West boundary of T 37 S, R 2 W

Chains	
	South bet. secs 31 and 36
	Our mountainous land through dense cedars.
13.00	Enter very broken ridges and gulches
40.00	Set a cedar post 3 ft. long, 5 in. with marked stone 3 ins. in the ground for 1/4 sec. cor. marked 1/4 S. on N. face from which
	Cedar 24 in. diam. bears N 65° E. 60 lks dist. marked 1/4 S. B.T.
	Cedar 10 in. diam. bears N. 73½° W. 36 lks dist. marked 1/4 S. B.T.
60.00	Descend over abrupt broken ridges
68.00	Descend more gradual and leave dense cedars
80.00	Set sandstone 14 x 10 x 8 ins.; 10 ins. in the ground for cor. of To 37 and 38 S., R 2 and 3 W. marked 37 S. on N.E., 2 W. on S.E., 38 S. on S.W. and 3 W. on N.W. faces with brackets on each edge from which
	Pine 18 ins. diam. bears N 46½° E. 34 lks dist. marked T 37 S. R 2 W. S 31 B.T.
	Cedar 18 ins. diam. bears S. 50½° E 248 lks dist. marked T 38 S. R 2 W. S 6 B.T.
	No other lines within limits dig pits 24 x 24 x 12 ins on each line N W and E 4 ft. and S 8 ft. dist. and raise a mound of earth 6 ft. base, 2½ ft. high S. of cor. The N. pit falls on fence line
	Land mountainous
	Soil sandy and stony with rate
	Timber cedar and pine
	Mountainous land, dense undergrowth or heavily timbered on east side

April 28, 1897

Random South and East boundaries of T37S R2W

Chains	April 29: At 8h00m a.m. l.m.t. Took off 37°33' on the lat. arc 14°41'N. on the decl. arc and determining a true meridian at the cor. of Ts 37 and 38 S. Rs 1 and 2 W. Thence Drew East on a random line along the S. bdy. of T37S, R2W, setting temp. 1/4 sec. and sec. cor. at intervals of 40.00 chs: and at 478.33 chs. allowing for convergence of meridian, beta temp. cor. for Ts 37 and 38 S. Rs 1 and 2 W. April 29: 1897
	April 30: At 9h00m a.m. l.m.t. Took off 37°33' on the lat. arc: 15°00'N. on the decl. arc: and determined a true meridian at the temp. cor. of Ts 37 and 38 S. Rs 1 and 2 W. Thence Drew North on a random line along the E bdy. of T37S R2W. setting temp. 1/4 sec. and sec. cor. at intervals of 40.00 chs, and at 400.00 chs, Thence West 10.00 chs: Thence North 80.00 ch. thence East 2,30 chs. and intersect the N.C. to Ts 36 and 37 S, Rs 1 and 2 W. which is 7,70 chs N. of the true cor. point. April 30, 1897

Dam: May 1, 1897: At 8 hr. 00 m. a.m. Sun. Track off 34°38' on the lat. arc: 15'18" N. on the dec. arc. and determined a true meridian with the sun at the N.C. to T. 36 and 37 S. Rs. 1 and 2 W. which is 7.76 chs. W. of true cor. found. Thence Drew N. 2.30 chs. thence South 40.00 chs. thence East 57.0 chs. to a point 4.20 chs.

11.00 N. of the true cor. point for 1/4 sec. cor. On account of impassable cliffs to N. and E. I set a sandstone 20 x 12 x 3 ins., 16 ins. in the ground for witness cor. to 1/4 sec. cor. marked W.C. 1/4 on N. face and raised a mound of stone 2 ft. base, 1½ ft. high W. of cor. pit impracticable.

Thence Drew South 40.00 chs. thence E. 4.00 chs. to

80.00 a point on the true T. line where I set a sandstone 20 x 10 x 6 ins. 16 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 3 notches on E. and 1 notch on N. adjoining pits 18 x 18 x 12 ins. in 1 notch sec. 5½ ft. dist. and raised a mound of earth 4 ft. base 2 ft. high W. of cor.

Found mound uncovered

Soil sandy clay and rocky; 2nd and 4th rate

No timber

Mountainous land on 80.00 chs.

East boundary of T. 37 S. R. 2 W. continued

Chains	
	South on E. bdy between 7 and 12
	Over rolling land
40.00	Set a sandstone 14 x 12 x 4 ins, 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
43.50	Dry creek bed drs westerly.
64.60	Wagon road bears E. and W. from Henrieville to Escalante
80.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for cor of secs. 7, 12, 13 and 18, marked with 4 notches on S. and 2 notches on N. edges, dig pits 18 x 18 x 12 ins., in each sec. a 3½ ft dist and raise a mound of earth 4 ft base 2 ft high W. of cor.
	Land rolling
	Soil sand and clay 2nd rate
	No timber
	Dense undergrowth on 80.00 chs.

	South between secs. 13 and 18
	Over rolling land
30.00	Creek 10 lks wide drs. S. W.
40.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
	Ascend abrupt bluff over ridges and gulches in chalky formation
80.00	Deposited a marked stone 12 ins in the ground for cor of secs

East boundary of T. 37 S. R. 2 W. continued

Chains 13, 18, 19 and 24. dig pits 18 x 18 x 12 in. in each sec. 4 ft deep and raised a mound of earth 4 ft far. 2 ft high, over deposit. Land rolling and mountainous. Soil sandy loam. Say and clay 1st and 4th rate. Timber very scattering cedar. Mountainous land ordinary undergrowth. on 80.00 chs.

South bnd, secs. 19 and 24
Over mountainous land
ascending abruptly.
1000 Top of plateau. 600 ft high
At the cor. of secs. 13, 18, 19 and 24
stands on steep slope at this point Rock a sandstone 16 x 10 x 8 ins Wedged for witness corner to secs 13, 18, 19 and 24. marked N. C. on N. E. face with 3 notches on S. and W edges from north
Ash 12 in diam. bears N 57¾° E 42 lks dist
marked N. C. T. 37 S. R. 1 W. S. 18 B. T.
Ash 12 in diam bears S. 40° E 58 lks dist.
marked N. C. T. 37 S., R. 1 W. S. 19 B. T.
Cedar 12 in diam. bears S. 33¾° W. 50 lks dist
marked N. C. T. 37 S., R. 1 W. S. 24. B. T.
Ash 12 in diam bears S 67° W 62 lks dist.
marked N. C. T. 37 S., R. 1 W. S. 24. B. T.
Entire cours cedars
2000 Begin west drains, W.
2000 Set a sandstone 12 x 10 x 8 ins 9 ins in the ground for 1/4 sec cor
marked 1/4 on W. face from north.
In the 12 in diam. bears S 70° E 50 lks dist.
marked 1/4 S. B. T.
Ash 12 in diam. bears S 65° W. 48 lks dist.
marked 1/4 S. B. T.

East boundary of T. 37 S. R. 2 W. continued.

Chains	
53.00	Edge of plateau trs E and W. Descend abruptly over very broken land, leave heavy timber
75.00	Bottom of gulch trs S.E. ascend
79.34	Top of sharp ridge descend abruptly
80.00	Set a limestone 12×8×6 ins 8 ins in the ground for cor of secs 19, 24, 25 and 30. marked with 2 notches on S. and 4 notches on N edges and raised a mound of stone 2 ft base 1½ ft high W. of cor pits impracticable. Land mountainous and rolling Soil rocky 4th rate Timber pine and cedar. Heavily timbered on 42.95 chs Mountainous land descending south on 81.00 chs
	South bet secs 25 and 30. Over mountainous land through scattering timber and dense undergrowth Descending abruptly.
6.00	The cor of secs 19, 24, 25 and 30 falls on steep clay bluff where it may be destroyed. therefore at this point I set a sandstone 16×10×6 ins 12 ins in the ground for witness cor to cor of secs 19, 24, 25 and 30. marked W.C. on NE face with 2 notches on S. and 4 notches on N edges and raise a mound of stone 2 ft base 1½ ft high W. of cor pits impracticable. Foot of bluff descend gradually
17.00	Creek 5 lks wide trs W. ascend.
20.00	Ascend abruptly
30.90	Top of bluff over broken land
40.00	Set a limestone 16×12×4 ins 12 ins in the ground for ¼ sec cor marked ¼ on W. face, from which

East boundary of T37 S. R2 W. continued

Chains	
	Cedar 10 ins diam bears S 64½° W 100 lks dist marked 14 S.B.T.
	Cedar 20 ins diam bears N 13½° W. 120 lks dist. marked 14 S B T
	Over broken land ascending.
67.50	Ascend abruptly
78.00	Top of ridge bs E and W.
80.00	Set a sandstone 12 x 8 x 8 ins 8 ins in the ground for cor. of secs 25 30. & 31 and 36. marked with 1 notch on S face 5 notches on N Edges from which
	Pine 10 ins diam bears N 68¾° E 58 lks dist. marked T.37 S. R.1 W. S.30 B.T.
	Pine 10 ins diam bears S 50¾° E 96 lks dist. marked T37 S. R1 W. S.31. B.T.
	Pine 7 ins diam bears S 43½° W 30 lks dist. marked T37 S. R2 W. S.36. B.T.
	Pine 12 ins diam bears N 32½° W. 32 lks dist. marked T37 S. R2 W. S.25. B.T.
	Land mountainous
	Soil stony 4th rate.
	Timber scattering pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs.

	South bet secs 31 and 36.
	Over rolling land through dense timber.
36.00	Have dense timber
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W. face and raise a mound of stone 2 ft base 1½ ft high W. of cor pit unpracticable. Have heavy timber
42.00	Edge of plateau descend abruptly.
80.00	Set a sandstone 16 x 12 x 12 ins 12 ins in the ground for cor of Ts 37 and 38 S. Rs 1 and 2 W. marked. 37. S. on N.E. 1. W. on S.E

East boundary of T37S R2W concluded

Chain.

38. S. on S.W. and
2. W. on N.W. faces with 6 notches
on Each edge dug pits 24 + 24 x
12 ins on each line N.E. and W. 4 ft
and S. of stone 8 ft disk: and raise
a mound of earth 5 ft base 2½ ft
high S. of cor & destroy temp cor previously set
Land mountainous and rolling
Soil stony: 4th rate
Timber pine and cedar
Mountainous land, heavily timbered
or dense undergrowth on 80.00 chs.

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South boundary of T.37 S. R.2 W.

Chain.		May 3. 1897 At 9h 00m a.m. l.m.t. Set of 37°32' on the lat. arc: 55'3 N. on the decl. arc: and determined a true meridian with the sun at the cor. of Ts. 37 and 38 S. R. 1 and 2 W.
		Thence Drew West betw secs 1 and 36 on South boundary of T.37 S. R.2 W.
		Over mountainous land.
		Ascend abruptly
	40.00	Top of plateau 800 feet high
		Set a sandstone 16 x 12 x 3 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face.
		from which
		Cedar 10 ins diam. bears N.46° E. 98 lks dist. marked 1/4 S.B.T.
		Spruce 8 ins diam. bears S.70° E. 36 lks dist. marked 1/4 S.B.T.
		Over rolling land through dense undergrowth and timber
	80.00	Set a sandstone 30 x 12 x 6 ins., 24 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
		Spruce 16 ins. diam. bears S.57° W. 49 lks dist. marked T.38 S., R.2 W., S.2, B.T.
		Spruce 12 ins diam. bears N.44° W. 81 lks dist. marked T.37 S. R.2 W., S.35, B.T.
		no other trees within limits
		Dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist, and raise a mound of earth 4 ft base, 2 ft high W. of cor.
		Land mountainous and rolling
		Soil rocky and sandy 4th rate
		Timber fence and cedar
		Mountainous land on 40.00 ch.
		Heavily timbered & dense undergrowth on 80.00 chs

South boundary of T.37 S., R.2 W. continued

Chain	
	West bet. secs. 2 and 35
	Over rough and mountainous
	land. Through dense cedar & pine
28.22	Canon head. N.
26.50	Bottom of canon
29.60	Across canon ascend
40.00	Set a sandstone 12 x 10 x 8 ins. 8 ins
	in the ground for 1/4 sec. cor
	marked 1/4 on N. face from which
	A pine 14 ins diam. bears S. 78° E. 52 lks dist.
	marked 1/4 S. B.T.
	A pine 14 ins diam. bears N. 32 3/4° W. 34 lks dist.
	marked 1/4 S. B.T.
40.20	Top of bluff, over rolling land
80.00	Set a sandstone 24 x 14 x 8 ins, 18 ins. in
	ground for cor of secs 2, 3, 34 and
	35 marked with 2 notches on
	E. and 1 notch on W. edges.
	from which
	A pine 10 ins diam. bears N. 34 1/2° E. 28 lks dist.
	marked T.37 S. R.2 W., S.35, B.T.
	A pine 6 ins diam bears S. 15° W. 41 lks dist.
	marked T.38 S. R.2 W., S.3, B.T.
	A pine 12 ins diam bears S. 70° W. 39 lks dist
	marked T.38 S. R.2 W., S.3, B.T.
	no other trees within limits &
	raise a mound of stone 2 ft
	base, 1 1/2 ft high W. of cor
	pits unpracticable.
	Land rolling and mountainous.
	Soil rocky, not fertile.
	Timber cedar and pine
	Mountainous land heavily tim-
	bered or descending grade on
	80.00 chs.

	West bet. secs. 3 and 34
	Over very mountainous land
	descending
14.39	It being impracticable to

South boundary of T.37 S. R.2 W. continued

Chains	
	Set the 1/4 sec. cor. on S. side sec. 34 at this point I set a sandstone 12 x 8 x 4 ins, 8 ins in ground for witness point marked W.P. on W. face and raise a mound of stone 2 ft. base 1½ ft high W. of cor.
14.50	Drop into head of canon due S.
40.00	The 1/4 sec. cor falls on very steep slope where it can not be retained.
58.60	Across canon
58.74	Set a sandstone 14 x 10 x 4 ins, 10 ins in the ground for witness cor. to 1/4 sec. cor. marked W.P. 1/4 on W. face, raise a mound of stone 2 ft. base 1½ ft high W. of cor.
	Ascend
63.00	Top of ridge descend
71.00	Foot of slope level
80.00	Set a sandstone 12 x 10 x 4 ins 8 ins in the ground for cor. of sec. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges, from which
	A cedar 20 ins. diam. bears N. 51½° E 64 lks dist. marked T.37 S. R.2 W. S.34. B.T.
	A pine 18 ins diam bears S. 68½° W. 85 lks dist. marked T.38 S. R.2 W. S.4. B.T.
	A pine 10 ins diam bears N. 29½° W. 28 lks dist. marked T.37 S. R.2 W. S.33. B.T.
	no other trees within limits
	I raise a mound of stone 2 ft base 1½ ft high W. of cor.
	Land mountainous
	Soil rocky 4th rate
	Timber pine and cedar.
	Mountainous land and dense undergrowth on 80.00 chs.

South boundary of T.37 S. R.2 W. continued

Chains	
	May 3rd: At this cor I set off 15°56' N on the tel. arc; and at noon observe the sun on the meridian: the resulting lat is 37°32'
	West bet secs. 4 and 33.
	Over mountainous land
32.00	Descend into Canon 200 feet deep
40.00	Set sandstone 12 x 10 x 5 ins 8 ins. in ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone. 2 ft base 1½ ft high N of cor. Ascend abruptly.
55.89	Intersect a cedar tree 30 ins in diam. on top of plateau which I mark W. C. 1/4 S on N side for witness cor. to 1/4 sec. cor. from which
	Cedar 20 ins diam bears N 33½° E. 54 lks dist. marked W. C. 1/4 S. B.T.
	Cedar 20 ins diam bears S. 2° W. 1.00 lks dist. marked W. C. 1/4 S. B.T.
	Over rolling land through dense cedars.
80.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for cor of secs 4, 5, 32 and 33 marked
	T.37 S. S 33 on N.E.
	R.2 W. S. 4. on S.E
	T.38 S S. 5 on S. Ward
	S. 32. on W. face with 4 notches on E and 2 notches on N. edges: dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high W. of cor.
	Land mountainous
	Soil rocky and sandy 4th rate
	Timber pine and cedar
	Mountainous land and dense undergrowth — on 80.00 chs.

South boundary of T.37.S. R.2.W continued

Chains	
	West bet secs. 5 and 32
	Over mountainous land: ascend
26.00	Descend over broken ledges & gullies
34.00	Bottom of shallow dry N. ascend.
39.00	Top of bluff
40.00	Set limestone 12 x 10 x 3 ins, 8 ins. in the ground for 1/4 sec. cor marked 1/4 on N. face. dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
44.00	Descend abruptly over very broken land
80.00	Set a sandstone 14 x 12 x 4 ins. 12 ins. in ground for cor. of secs. 5, 6, 31 and 32, marked with 5 notches on E. and 1 notch on West edges from which
	A. cedar 12 ins diam bears N65½° E. 72 lks dist. marked T.37.S. R.2.W. S.32 B.T.
	A. pine 12 ins diam bears S.61° E. 21 lks dist. marked T.38.S. R.2.W. S.5. B.T.
	A cedar 10 ins diam bears S40½° W 32 lks, dist. marked T.38.S. R.2.W. S.6 B.T.
	A cedar 12 ins diam. bears N27½° W. 69 lks dist. marked T.37.S. R.2.W. S.31 B.T.
	Land mountainous
	Surf rocky: 4th rate
	Timber pine and cedar
	Mountainous land on 80.00 chs.

	West bet. secs. 6 and 31
	Over mountainous land descending
17.66	Creek bottom. foot of bluff.
22.00	Creek 10 lks wide drs S. Paria River
23.60	Fence bts N. and S. sulki willows
36.50	Leave willows
40.00	Set a sandstone 12 x 10 x 6 ins, 8 ins in the ground for 1/4 sec. cor marked 1/4 on N. face. dig pits 18 x 18 x 12 ins.

South boundary of T. 37 S. R. 2 W. continued

	E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
	From the cor. Henderson's house bears N. 26.07 chs. dist.
	Sim. Olivarb's house bears N. 12.00 chs. dist.
54.00	Dry wash dir. S. G. Johnson's house bears
56.33	Irrigation ditch dir. S. (S 7.00 chs. dist.)
57.00	Road bears N. and S. from Georgetown to Pannonille.
	Ascend abruptly
66.00	Top of ridge 200 feet high descending
77.00	Dry wash dir. S.
78.33	The cor. of Ts. 37 and 38 S. R. 2 and 3 W.
	Land mountainous and broken
	Soil sandy loam and rocky:
	1st and 4th rate
	Timber scattering pine and cedar with willows in bottom
	Mountainous land or dense undergrowth on 78.33 chs.

Map 3

Boundaries of T 37 S R 2 W.

Latitudes, departures and closing error

Line designation	Course bearing	Dist	Latitude N	Latitude S	Departure E	Departure W
N bdy T 37 S R 2 W	East	477.75			477.75	
E bdy T 37 S R 2 W	South	480.00		480.00		
S bdy T 37 S R 2 W	West	475.33				475.33
W bdy T 37 S R 2 W	North	480.00	480.00			
Convergency					.58	
Totals			480.00	480.00	478.36	475.33
					475.33	
				Error in Departure	.03	

General Description.

This township is very rough and mountainous but contains some fertile land along the creek bottom which can be cultivated by irrigation. The water supply is very limited and is nearly all used now for irrigation.

The township is extensively used for grazing for which it is well adapted.

Alfred B. Lewis
U.S. Dep. Sur.

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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.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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DLBMP

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30th, 1898

The foregoing field notes of the survey of The West East & South Boundaries of Township No. 3 South Range 2 West of the Salt Lake Base & Meridian, Utah

.....

.....

.....

executed by Alfred B. Lewis under his contract No. 211, dated October 7, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob R. Blair

United States Surveyor General.

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

.....

United States Surveyor General.

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BOOK A-246

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Sub-division Lines

of

Township 37 South, Range 2 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced May 4th, 1897

Survey completed May 14th, 1897

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Mc. Chain

Line-Points 58 09 04 v

— 1 60 05 v

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Rodman
Fran L. Goodwin	Flagman

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Volume
#
R0246

BOOK A-246

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31	32	33	34	35	36

Meanders Page.....

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

.....

..... , *Chainman.*

..... , *Chainman.*

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

SEAL

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

.....

..... , *Moundman.*

..... , *Moundman.*

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

SEAL

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

.....

..... , *Axman.*

..... , *Axman.*

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

SEAL

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

..... , *Flagman.*

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

SEAL

Subdivisions of T. 37 S. R. 2 W.

Survey commenced May 4th 1897 and executed with an L. R. Staasburger transit with solar attachment.

For description and complete list of same reference is made to the field notes of the survey of the South boundary of T. 36 S. R. 3 W. dated April 8th 1897 (see book 8.)

I commence at the cor. of secs. 1, 2, 35 and 36 on the S. bdy of the Tp. which I established heretofore.

Thence I run

N. 0°01' W. bet secs 35 and 36 Var. 15°30' E

Over mountainous land through dense cedars and pine descending

30.00 Ascend.

40.00 Set a sandstone 24 x 10 x 6 ins, 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face. from which

A pine 11 ins diam. bears N. 74° E 20 lks dist. marked 1/4 S B.T.

A pine 12 ins diam bears S 1½° E. 28 lks dist. marked 1/4 S. B.T.

42.00 Top of ascent

Over rolling land

50.00 Descend

64.00 Foot of descent 200 ft below top

Ascend

80.00 Set a sandstone 14 x 12 x 3 ins 9 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 pine 14 ins diam bears N 78½° E. 12 lks dist. marked T. 37 S. R. 2 W. S. 25 B.T.

A pine 14 ins diam. bears S. 49° E. 62 lks dist. marked T. 37 S. R. 2 W. S. 36. B.T.

A pine 12 ins diam bears S 63½° W 46 lks dist. marked T. 37 S. R. 2 W. S. 35 B.T.

Subdivisions of T.37.S. R.2.W.

Chain:	Pine 10 lins diam bears N18°W. 24 lks dist marked T.37.S. R.2.W. S.26 B.T. Land mountainous Soil stony: 4th rate Timber pine and cedar. Mountainous land and dense undergrowth on 80.00 chs.
	May 4: At 9h 10m a.m. l.m.t. I sighted off 37°33' on the lat. arc: 16°11' N on the decl. arc and determined a true meridian with the solar at the cor. of secs 25, 26, 35 and 36 Thence I ran East on a random line bet. secs. 25 and 36
40.00	Set temp 1/4 sec. cor.
80.30	Intersect. E. bdy of Tp at cor. of secs 25, 30, 31 and 36 which I established heretofore Thence I ran West on a true line bet secs 25 and 36 Over mountainous land, through dense undergrowth and timber descend.
23.00	Bottom of slope 200 feet below top Ascend
27.00	Descend
31.05	Edge of canon dis S.W.
40.15	Set a sandstone 16 x 12 x 3 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raise a mound of stone 2 ft base 1½ ft high N of cor. Pits impracticable Gradually ascend along N side of canon
50.00	Top of spur, descend gradually
54.00	Descend abruptly into canon
60.00	Bottom of canon Drs N.W. ascend
77.00	Top of canon 300 ft above bottom

Subdivisions of T32S. R22W.

Chn.	
1030	The cor of secs 25, 26, 35 and 36 Land mountainous, Soil stony; 14 chnts Timber pine and cedar. Mountainous land or dense undergrowth on 8030 chs
	It being unpracticable to run further north on account of perpendicular brake Dgs to the cor. of secs 2, 3, 34 and 35 on the S. bdy of Tp. On account of broken land along line. Run on offset line as follows. East through dense undergrowth 10.00 chs. N 0°01' W 10.00 chs over broken land West 8.40 chs to a point on ledge of sandstone on the brink of impassable canon Marked W.C. 1/4 on top of (5) ledge for witness cor. to the sec. cor. and raised a mound of stone 3 ft base 3 ft high W. pits.
1000	The cor common to each Thence Departure N 0°01' W on offset line ascending 43.10 Enter broken land. 63.00 Descend 68.50 Edge of impassable canon 400 feet deep Dr N. W. To determine the dist across set a point on line on opposite side and set a flag on edge of canon at 68.50 chs Then from the point across the canon Dr. [illegible] a bear.

Chains

N 89°59' E. 10.00 chs to point from which the flag bears S. 42°15' W. Therefore the dist is Tan 47°45' x base or 1.100 x 10.00 = 11.00 chs making the whole distance along the offset line 68.50 + 11.00 = 79.50 chs.

— 80.00 to a point on E and W. line between secs 26 and 35. Thence

West 1.25 chs to the edge of canon dir N.W.

It being impracticable to run further W. at this point I set a sandstone 12 x 10 x 6 ins 8 ins in the ground for a witness cor to the cor of secs 26, 27, 34 and 35 marked W.C. on N.E. face with 1 notch on S. and 2 notches on E edge from which

A pine 12 ins diam bears N 48½° E. 48 lks dist. marked W.C. T.37 S. R.2 W. S 26. B.T.

A pine 14 ins diam bears S. 80° E. 82 lks dist. marked W.C. T.37 S. R.2 W. S 35. B.T.

A pine 10 ins diam bears S. 63° W. 9 lks dist. marked W.C. T.37 S. R.2 W. S 34 B.T.

A pine 10 ins diam bears N 15° W. 61 lks dist. marked W.C. T.37 S. R.2 W. S 27. B.T.

The cor can not be set

Land mountainous.

Soil stony: 4th rate

Timber pine and cedar.

Mountainous land on 80.00 chs.

May 4: At this cor I set off 16°13' N at 0h 00m l.m.t. on the dial. and observed the sun on the meridian. The resulting lat. is 37°33'

From the witness cor which is 8.75 chs E. of the true cor point of secs. 26, 27, 34 and 35 I run.

Subdivisions of T. 37 S., R. 2 W.

Chains	
	Each on a random line bet secs. 26 and 35
40.00	Set temp 1/4 sec cor.
80.00	Intersect N. and S. line at the cor. of secs. 25, 26, 35 and 36
	Thence Drain
	North on a true line bet secs 26 and 35
	Over mountainous land through dense undergrowth and timber.
	Ascending.
27.00	Descending.
40.00	Set a sandstone 12 x 8 x 6 ins. 8 ins in the ground for 1/4 sec cor, marked 1/4 on N. face from which
	Cedar 12 ins diam bears N72½°W 74 lks dist. marked 1/4 S.B.T.
	Cedar 6 ins diam bears N55½°E 31 lks dist, marked 1/4 S. B. T.
42.00	Top of slope 300 ft below top
	Ascend
51.00	Top of slope, over broken land
71.25	The meander cor. to the cor of secs. 26, 27, 34 and 35 on the edge of impassable canon
80.00	The cor cannot be set.
	Land mountainous
	Rock stony in places
	Timber pine and cedar
	Mountainous land or dense undergrowth on 80.00 chs.

As it is impossible to run the line bet secs 26 and 27 N. from the cor of secs 26, 27, 34 and 35 on account of impassable cliffs. I go to the cor of secs 3, 4, 33 and 34 on the S. bdy of the Tp. established by me heretofore.
Thence Drain

Subdivisions of T. 37 S. R. 2 W.

Chain	
	N 0°01' W bet. secs. 33 and 34
	Over mountainous land through dense brush and timber.
9.00	Edge of bluff: descend abruptly through scattering cedar.
36.50	Foot of bluff 600 ft. high.
	Over broken land through dense undergrowth and scattering timber
40.00	Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground: for 1/4 sec. cor. marked 1/4 on N. face from which
	A pine 8 ins. diam. bears S 63 1/2° E 37 lks. dist. marked 1/4 S. B. T.
	A cedar 12 ins. diam. bears S 73 1/2° W 48 lks. dist. marked 1/4 S. B. T.
78.70	Fence bears N 20° E and S 20° W
78.95	Fence bears N 80° W and S 80° E.
80.00	Set a sandstone 16 x 10 x 6 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. edge: dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft. high. N. & cor.
	Land mountainous and broken. Soil sandy and rocky 2nd x 4th rate. Timber pine and cedar.
	Mountainous land or dense undergrowth on 80.00 chs.
	May 4, 1897.

May 5: At 10h 00m a.m. l. m. t. set off 37° 33' N on the lat. and 16° 29' N on the dec. and determined a true meridian with the solar at the cor. of secs. 27, 28, 33 and 34.

On account of high broken mountains it is impossible to run the line between secs. 27 and 34.

Chains	to the cor of secs. 26, 27, 34 and 35
	Thence from this cor S.
	run
	East on a true line bet secs
	27 and 34
	Over rolling land through dense
	undergrowth
20.00	Set a sandstone 12 x 8 x 4 in. 8 in.
	in the ground for witness cor.
	to the 1/4 sec. cor. marked W.C. 1/4
	on N. face: dig pits 18 x 18 x 12 in.
	E. and W. of stone 3 ft deep
	and raise a mound of earth
	3½ ft base 1½ ft high N. of cor.
	Ascend abruptly
40.00	Cor can not be set
80.00	sec cor not set
	Land mountainous and rolling
	Soil sandy and rocky sub soil and strata.
	No timber
	Mountainous land or dense
	undergrowth on 80.00 chs.

In order to set the 1/4 sec cor. bet secs 34 and 35 proceed as follows.

From the witness cor. above described with a bearing 21.00 chs.

E. of the cor of secs 27, 28, 33 and 34 of Trim

	North 15.00 chs.
	East 20.00 chs
	North 19.00 chs
	East 110.00 chs to a point on
	the true line 34.00 chs N. of the
	corner of secs 26, 27, 34 and 35.
34.00	Top of bluff 60 ft high
	Thence North on a true line bet
	secs 26 and 27
	Over rolling land through dense brush.

Subdivision of 237 A. R. 2 W.

Chains	
3800	Imaginary line with the line
4000	Set a candstone 12 x 12 x 4 in. in the ground for my cor. marked 1/4 cor. N. face and raise a mound of stone 2 ft. base 1½ ft. high. N. of cor.
4000	Creek Elkhorn bears S 70° W.
	Course
4200	Foot of impassable bluff 60 ft. high, ascend abruptly.
8000	The cor. can not be set.
	Land mountainous and rolling but sandy loam and rocky: 1st and 4th rate
	Timber scattering pine and cedar on top of bluffs.
	Mountainous land or dense undergrowth on 8000 chs.

It is impossible to run the line bet. Secs. 25 and 26 on account of perpetuous mountains. Therefore from a point 7000 chs. N. of the 1/4 sec. cor. bet. Secs 26 and 27 Run East on an offset line over rolling land.

At 5000 chs cross creek Elkhorn bears S 70° W.

25000 to a point. Thence North 2000 chs to a point. Thence East 1500 chs to a point at foot of bluff on the true line bet. Secs. 25 and 26. and 2200 chs N. of the true point for 1/4 sec. cor. which can not be set. Therefore at this point

4700 Set a candstone 12 x 8 x 4 in. in the ground for a witness

Subdivision of T. 37 S. R. 2 W. continued.

Chains	
	to the 1/4 sec. cor. marked W.C. 1/4 on W face from which
	A pine 8 ins diam bears S. 86° E. 23 lks dist. marked W.C. 1/4 B.T.
	A pine 8 ins diam bears S 55° W. 47 lks dist. marked W.C. 1/4 S.B.T.
	Thence I run
	N 0° 01' W on a true line bet secs 25 and 26
	Over rolling land through dense undergrowth -
56.00	Creek 6 lks wide dry W. ascend
61.00	Foot of impassable bluff.
	Being impracticable to run further N and set the cor of secs. 23, 24, 25 and 26 therefore at this point I set a sandstone 12 x 10 x 6 ins., 8 ins in the ground for witness cor. to the cor. of secs. 23, 24, 25 and 26, marked W.C. on N.E. face with 2 notches on S. and 1 notch on E. edges and raise a mound of stone 3 ft base 2 ft high W. of cor. Pits impracticable.
	Ascend abruptly.
80.00	The cor can not be set.
	Land mountainous.
	Soil sandy and rocky 2nd and 4th rate
	Timber scattering cedars and pine on top of bluffs.
	Mountainous land or dense undergrowth - on 80.00 chs.

May 5: At the the witness cor. to the sec. cor. just described I set of 16° 30' N on the decl. arc and at 0h 0m. l.m.t. observed the sun on the meridian; the

Chains.	
	resulting lat is 37°034'
	The line bet secs 24 and 25 lays along the edge of high bluff and can not be run therefore from the witness cor. to the cor of secs 23, 24, 25 and 26 I run East on offset line 19.00 chs S. of the true line bet secs 24 and 25 along valley through dense brush. 40.00 chs. to a point. Thence North 6.22 chs. to foot of bluff. It being impracticable to run further North at this point I set a temp witness cor. Thence East 40.00 chs to a point on the Tp line 6.78 chs S of the witness cor to the corner of secs 19, 24, 25 and 30 Thence West on a true offset line bet secs 24 and 25 Over mountainous land
40.00	The 1/4 sec cor can not be set At 12.78 chs S of this point I establish the temp witness cor as the permanent witness cor to the 1/4 sec cor which is a sandstone 18 x 14 x 3 ins, 13 ins in the ground marked W C 1/4 on N face from which a large mass of rocks bears S 40 W 18 lks dist raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.
80.00	The cor can not be set Land mountainous Soil rocky 4th rate No timber. Mountainous land on 80 chs.

Chain

It being impracticable to run the true bet secs 23 and 26 in the usual manner on account of perpendicular mountains therefore in order to set the 1/4 sec cor between same I proceed as follows.

From a point 7.00 chs North and 25.00 chs East of the 1/4 sec cor bet secs 26 and 27 I run N0°01' W on offset line.

5.00 chs cross creek 5 lks wide drs W

13.00 chs cross creek 8 lks wide drs S.W.

31.00 Foot of bluff thence East 15.00 chs to a point thence N0°01'W 2.00 chs to a point on the true line ~~bet~~ secs 23 and 26

40.00 chs E of the cor of secs 22, 23, 26 and 27.

Set a temp 1/4 sec cor.

Continue E on random line bet secs 23 and 26.

80.00 The cor of secs 22, 23, 25 and 26.

Thence W on true line bet secs 23 and 26. Over mountainous land descending

32.62 Foot of bluff 600 ft high rolling land.

37.00 Creek 8 lks wide drs S.W.

40.00 Set temp 1/4 sec cor as permanent cor as follows.

A limestone 12x10x8 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on N face; dig pits 18x18x12 ins E and W of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.

57.00 Foot of bluff ascend abruptly.

80.00 The cor of secs 22, 23, 26 and 27 not set.

Chains	
	Land mountainous and rolling. Soil sandy loam stony 2nd and 4th rate. No timber. Mountainous land and dense undergrowth on 80.00 chs.
	The cor of secs 23, 24, 25 and 26 is not set therefore in order to establish the 1/4 sec cor bet secs 23 and 24 I proceed as follows. From the 1/4 sec cor bet secs 23 and 26 I run No°01'W 10.00 chs East 7.38 chs No°01'W 9.42 chs to foot of bluff East 16.54 chs No°01'W 20.58 chs to foot of bluff East 16.08 chs to a point on the true line bet secs 23 and 24
40.00	chs North of the true cor point for secs 23, 24, 25 and 26 This point falls at foot of bluff in creek 8 lks wide dir S.W. It being impracticable to set the cor in creek therefore I run No°01'W on a true line bet secs 23 and 24. Over rolling land
41.00	Set a sandstone 16X12X3 ins 12 ins in the ground for witness cor to the 1/4 sec cor marked W.C.1/4 on W face dig pits 18X18X12 ins N and S of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W of cor. Ascend gradually.

Subdivisions of T. 37 S. R. 2 W.

Chains	
61.00	Ascend abruptly over very broken land
80.00	Set a quartzite 12 x 10 x 5 ins, 8 ins in the ground for cor of secs. 13, 14, 23, and 24. marked with 3 notches on S and 1 notch on E edges. and raise a mound of stone 3 ft base 2 ft high. N. of cor. pits unpracticable.
	Land rolling and mountainous Soil sandy loam and rocky: 2nd and 4th rate
	Timber very scattering pine and cedar.
	Mountainous land or dense undergrowth on 80.00 chs.
	May 5th 1897
	May 6: At 8h 50m a.m. l.m.t. I set up at 37°35' N on the lat arc: 16°44' N on the decl. arc, and determined a true meridian with the solar at the cor of secs 13, 14, 23 and 24.
	Thence I run
	East on a random line bet. secs. 13 and 24
40.00	Set temp 1/4 sec cor
80.00	Intersect E. bdy of Tp at the cor of secs. 13, 18, 19 and 24 which I set heretofore
	Thence I run
	West on a true line bet. secs 13 and 24
	Descend abruptly over very rough gullies and ridges through scattering timber.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins

Subdivisions of T. 37 S. R. 2 W. continued

Chains	
	East N. of stone 3 ft dist. and raised a mound of earth 3½ ft base 1½ ft high N of cor.
45.00	Creek 8 lks wide dir S. W. ascend
	Over broken ridges and hollows
80.00	The cor of secs 13. 14. 23 and 24
	Land mountainous and broken
	Soil sandy loam and rocky
	2nd and 4th rate
	Timber scattering cedars
	Mountainous land or dense
	undergrowth on 80.00 chs.
	N. 0° 51' W. bet secs 13 and 14
	Over mountainous land through
	dense undergrowth and scattering
	timber.
	Ascend abruptly
23.62	Top of bluff 600 ft high
	Enter dense cedars, over rolling land
40.00	Set a limestone 14 x 10 x 4 ins 10 ins
	in the ground for 1/4 sec. cor.
	marked 1/4 on N. face. from which
	Cedar 12 ins diam. bears S. 39° E. 35 lks dist.
	marked 1/4 S. B. T.
	Pine 16 ins diam. bears N. 36½° W. 66 lks dist.
	marked 1/4 S. B. T.
	Over broken land descending
80.00	Set a limestone 16 x 14 x 4 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
	Cedar 14 ins diam bears N. 28½° E. 39 lks dist.
	marked T. 37 S. R. 2 W. S 12 B. T.
	Pine 6 ins diam bears S. 13½° E 43 lks dist.
	marked T. 37 S. R. 2 W. S. 13 B. T.
	Cedar 8 ins diam bears S. 65° W. 89 lks dist
	marked T. 37 S. R. 2 W. S 14 B. T.

Subdivisions of T37S. R2W. continued

Chains	
	A cedar 16 ins diam bears N84W, 90 lks dist. marked T37S. R2W. S.11, B.T.
	Land mountainous.
	Soil rocky: 4th rate
	Timber pine and cedar.
	Mountainous land, heavily timbered or dense undergrowth on 80.00 chs
	Cash on a random line bet. secs 12 and 13
40.00	Set temp 1/4 sec. cor.
80.10	Intersect E. bdy of Tp at cor. of secs. 7, 12, 13 and 18.
	Thence Drum
	West on a true line bet secs 12 and 13.
	Over mountainous land ascending
31.92	Top of ridge bears N and S. 300 feet above cor.
	Descend abruptly
40.05	Set a sandstone 12 x 12 x 4 ins, 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Ascend abruptly
57.00	Over broken land
61.00	Descend.
75.00	Bottom of hollow dis N. W.
80.10	The cor of secs 11, 12, 13 and 14
	Land mountainous.
	Soil sandy and rocky: 2nd and 4th rate
	Timber very scattering cedars on west side of the line
	Mountainous land on 80 chs.

Chain	
	May 6: At this cor I set off 16°47' N on the dech and observed the sun on the meridian at 0 hr. L.M.T. The resulting lat is 37°36'
	N 0°01' W bet secs. 11 and 12
	Over mountainous land through dense undergrowth.
	Descend abruptly
8.50	Hollow dir N.W. ascend
36.00	Top of knoll slopes west 200 ft above hollow
	Descend abruptly
40.00	Set a limestone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins N and S. of stone. 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
	Descend gradually
56.25	Road from Stringville to Escalante trs E & W.
61.50	Dry wash dir Westerly
72.00	Dry wash dir S. W.
	Ascend gradually
80.00	Set a sandstone 14 x 10 x 4 ins, 9 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. dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist. and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land mountainous and rolling. Soil sandy loam and rocky. 2nd and 4th rate. No timber. Mountainous land or dense undergrowth on 80.00 chs.

Subdivisions of T37S. R2.W.

Chains	
	East on a random line bet secs 1 and 12
40.00	Set temp 1/4 sec. cor.
80.00	Intersect E bdy of Tp at cor. of secs. 1, 6, 7 and 12
	Thence Drain
	North on a true line bet secs 1 and 12
	Over rolling land
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face dig pits 18 x 18 x 12 ins E and W. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
80.00	The cor. of secs 1, 2, 11 and 12.
	Land rolling
	Soil sandy 2nd rate
	No timber
	Brush and undergrowth on 80.00 chs.

	North N. on a random line bet secs. 1 and 2
40.00	Set temp 1/4 sec. cor.
79.80	Intersect the N bdy of Tp 40 lks N. of cor. of secs 1, 2, 35 and 36
	Thence Drain
	S 0°16' W on a true line bet secs 1 and 2
	Over mountainous land descending
39.80	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on N. face; dig pits 18 x 18 x 12 ins N and S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
79.80	The cor. of secs. 1, 2, 11, and 12

Chains	
	Land mountainous and rolling
	Soil sandy 4th rate
	No Timber.
	Mountainous land or dense
	undergrowth - on 79.80 chs.
	May 6, 1897
	From the cor. of secs 27, 28, 33 and
	34 described heretofore Drive
	N 0°02' W bet secs 27 and 28
	Over mountainous land.
	Ascend abruptly.
12.00	Top of ridge 200 feet high bro E and W
25.00	Foot of ridge over rolling land
33.00	Creek 10 lks wide dis S 70° W.
39.10	Fence bro E & W across cultivated fields
40.00	Set a sandstone 12 x 10 x 6 ins 8 ins
	in the ground for 1/4 sec cor
	marked 1/4 on W. face. dig pits
	18 x 18 x 12 ins N and S. of stone 3 ft
	dist. and raised a mound of earth
	3 1/2 ft base 1 1/2 ft high W of cor.
63.50	Large bay wash dro S. W. ascending gradually
68.00	Wire fence bro E and W.
68.60	Public Road from Henryville to Cannonville
	bears E and W.
68.75	Fence bro E and W.
79.60	Small irrigation ditch 4 lks wide
	dro West.
80.00	Set a sandstone 12 x 10 x 6 ins
	10 ins in the ground for cor of secs
	21, 22, 27 and 28. marked with 2
9.10	notches on S. and 3 notches on E edges
10.90	dig pits 18 x 18 x 12 ins in each sec 5 1/2
	ft dist and raised a mound of earth 4 ft base
	2 ft high W of cor.
	Land rolling and mountainous
	Soil stony and sandy loam 2nd & 1st rate
	No timber
	Mountainous land, 25 chs.
	Dense undergrowth - on 39.10 chs.

Subdivisions of T. 37 S., R. 2 W.

Chains.	
	Knowing the cor of secs 22, 23, 26 and 27 is not set therefore I run
	East on a true line bet secs 22 and 27
	Over cultivated land
11.50	Farm road bro N.E. and S.W.
13.00	Nash with irrigating ditch bro South-westerly. ascend gradually through town of Henryville. bare fields
22.50	Centre of street bears N and S.
30.50	Centre of street bro N and S.
39.50	Fence bro N and S.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of stone pits impracticable.
40.50	Road bro N and S. ascend over stony ground
44.00	Irrigation ditch 10 ft wide flows N.
61.00	Foot of cliffs. It being impossible to run further East then for I set a sandstone 16 x 8 x 6 ins 13 ins in the ground for witness cor to the cor of secs 22, 23, 26 and 27 marked W. P. on N.E face with 2 notches on S and E edges and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
80.00	The cor can not be set.
W 19	Land rolling and mountainous but sandy loam and rocky substrate No timber
	Mountainous land on 19.00 chs
	Dense undergrowth on mountainous land on 19.00 chs.

The cor of secs 22, 23, 26 and 27.
is not set therefore,
From the witness cor which is
19.00 chs W of the true sec cor
I run N. 0°01' W on an offset line.
Over rolling land.
40.00 chs to a point thence
East 7.90 chs to foot of bluff.
At this point which is 11.10 chs
W of the true 1/4 sec cor I set
a Sandstone 16 x 12 x 4 ins 12 ins
in the ground for witness cor
to the 1/4 sec cor bet secs 22 + 23 marked
W.C. 1/4 on W face from which
A cedar 12 ins diam bears N 45° E 66 lks
dist marked W C 1/4 S. B. T.
No other trees within limits I
raised a mound of stone 2 1/2 ft
base 1 1/2 ft high W est of cor.
40.00 The 1/4 sec cor falls on steep cliffs
and cannot be set.
Thence I return to offset line
and continue N 0°01' W
80.00 chs to a point thence
E 12.00 chs to a point 7.00 chs
W of the cor of secs 14, 15, 22,
and 23 at the foot of bluff
It being impracticable to run
East to cor therefore I set
a sandstone 12 x 12 x 12 ins 8 ins
in the ground for witness cor
to the cor of secs 14, 15, 22 and 23
marked W C on N E face with
3 notches on S and 2 notches on
E edges from which
A pine 20 ins diam bears N 42 1/2° E 42 lks
dist marked W C T 37 S R 2 W S. 13 B. T.
A cedar 10 ins diam bears S 21° E 32 lks dist
marked W C T 37 S R 2 W S 23 B T
No other trees within limits
I raise a mound of stone 2 ft

Subdivisions T 37 S. Range 2 W.

	base 1½ ft high N of cor
	Pits impracticable
80.00	The true cor falls on cliff and
	can not be set.
	Land mountainous
	Soil rocky 4th rate
	Timber very scattering pine
	and cedars.
	Mountainous land on 80.00 chs.

	In order to establish a cor
	bet secs 14 and 23 I go to
	the cor of secs 13, 14, 23, and 24.
	Thence I run
	West on a true line bet secs
	14 and 23.
	Ascend abruptly.
22.14	Top of bluff 600 feet above
	cor.
24.00	Edge of breaks and cliffs
	It being impossible to run
	further West and set ¼ sec cor
	Therefore at this point I
	set a sand stone 12 x 8 x 6 ins 8 ins
	in the ground for witness
	cor to the ¼ sec cor bet secs 14 & 23 mark-
	ed WC 14 on N face. dig pits
	18 x 18 x 12 ins E and W of stone
	3 ft dist and raise a mound
	of earth 3½ ft base 1½ ft high
	N of cor
40.00	Cor falls in impassable breaks
	not set
80.00	Cor not set
	Land mountainous
	Soil rocky 4th rate
	Timber very scattering pine
	and cedars
	Mountainous land on 80.00 chs.

Subdivisions T 37 S. R 2 West

Chain	
	From the witness cor which is 7.00 chs N. of the true cor of secs 14, 15 22 and 23 I run No°01'W. on an offset line 10.00 chs to a point which falls in road from Henrieville to Escalante. Thence East 7.00 chs to a point on true line bet secs. 14, and 15 at the foot of cliffs cliffs.
10.00	chs No°1'W of the cor of secs 14, 15, 22 and 23. Set a sandstone 12x8x6 ins 8 ins in the ground for witness cor to cor of secs 14, 15, 22 and 23 marked W.C. on NE face with 3 notches on S and 2 notches on E edges raise a mound of stone 2½ ft base 2 ft high W of cor pits impracticable. Thence I continue No°01'W on a true line bet secs 14 and 15 over rolling land through dense undergrowth descending
32.00	Merge road N 60° 5' W
40.00	Set a sandstone 12x10x6 ins 8 ins in the ground for 1/4 sec cor to secs 14 & 15 marked 1/4 on W face and raise a mound of stone 2 ft base 1½ ft high West of cor pits impracticable.
53.00	Wash (dry most of the year.) chs S 26° W ascend gradually
80.00	Set a sandstone 16x14x4 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
	Pine 14 ins diam bears N 38½° E. 39 lks dist marked T 37 S. R 2 W. S. 11. B.T.
	Pine 6 ins diam. bears S. 13½° E 43 lks dist marked T 37 S. R 2 W. S. 14. B.T.

Subdivisions of T.37 S. R.2 W.

Chain	
	Cedar 8 ins diam. bears S 65° W. 89 lks dist. marked T.37 S. R.2 W. S.15 B.T.
	Cedar 16 ins diam bears N 84° W. 9 lks dist marked T.37 S. R.2 W. S 10 B.T.
	Land mountainous and rolling Soil sandy and rocky; 2nd and 4th rate.
	No timber except at the cor of secs 10, 11, 14 and 15
	Mountainous land or dense undergrowth on 80.00 chs.
	May 7: At 4h 00m p.m. L.m.t. Det off 37°36' on the lat. arc: 17°06' N. on the dec. arc; and determined a true meridian at the cor of secs 10, 11, 14 and 15.
	Cast on a random line bet secs 11 and 14
40.00	Set temp 1/4 sec cor.
80.10	Intersect N and S. line 10 lks S. of the cor of secs. 11, 12, 13 and 14
	Thence S. run.
	S. 89°56' W on a true line bet secs 11 and 14
	Over mountainous land
	Ascend
1.50	Top of ridge bears N and S.
	Descend abruptly
7.50	Bottom of gulley dis. N.
	Ascend along N side of hightwall
16.00	Descend
38.00	Hollow dis. N. W. 200 ft below top
	Ascend gradually
40.05	Set a sandstone 20 x 8 x 6 ins 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. dig pits 18 x 18 x 12 ins E and W. of stone 3 ft dist and raise a mound of earth

Subdivisions of T. 37 S. R. 2 W., continued

Chains	
	3½ ft base 1½ ft high N. of cor
45.00	Descend
64.00	Road from Henryville to Escalante bears N.E. & S.W.
70.00	Dry wash bears southwesterly ascend
72.40	Road to woodlands.
80.10	The cor of secs 10, 11, 14 and 15
	Land mountainous and rolling
	Soil sandy, loam and rocky; 2nd and 4th rate.
	No timber.
	Mountainous land or dense undergrowth on 80.10 chs.
	May 7. 1897

	N. 0°01' W. bet secs 10 and 11
	Over mountainous land through scattering timber.
	Ascend abruptly
10.50	Top of ridge bears E. & W. 300 ft high
	Descend
14.00	Gulch bears E. ascend
17.50	Wood road bears E. and W.
18.16	Enter very broken land.
40.00	Set sandstone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2½ ft base 2 ft high W. of cor.
	Pits impracticable.
	Over very broken land
80.00	Set sandstone 24 x 12 x 8 ins 18 ins in the ground for cor. of secs 2, 3, 10 and 11. marked with 5 notches on S. and 2 notches on E. edges and raise a mound of stone 3 ft base 2 ft high W. of cor.
	Pits impracticable.
	Land mountainous
	Soil stony 4th rate
	Timber scattering pine and cedar
	Mountainous land on 80.00 chs.

Subdivisions of T.37 S. R 2 W.

Chains.	May 8: At $9^h 10^m$ a.m. S.m.t set off 37°37' on the lat. arc: 17°17' N on the decl arc and determined a true meridian with the solar at the cor of secs 2, 3, 10 and 11, thence I ran N 89°56' E. on a random line bet secs 2 and 11
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S. line 12 lks N of cor of secs. 1, 2, 11 and 12
	Thence I run.
	N 89°59' W on a true line bet secs. 2, and 11
	Over rolling land
0.60	Dry wash dis. S.
40.00	Set limestone 16 x 10 x 4 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins E and W. of stone 3 ft deep and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
55.50	Dry wash dis S.
	ascend
78.00	Top of slope facing E.
80.00	The cor. of secs. 2, 3, 10 and 11
	Land rolling and mountainous.
	Soil sandy loam and stony; 2nd and 4th rate
	No timber.
	Dense undergrowth on 80.00 chs.

Subdivisions of T. 37 S. R. 2 W.

Chains.	
	N. 0°01' W. on a random line bet. secs. 2 and 3.
40.00	Set temp. 1/4 sec. cor.
79.67	Intersect N. bdy. of Tp. 48 lks. N. of cor. of secs. 2, 3, 34 and 35 which I set heretofore.
	Then I run S. 0°20' W. on a true line bet. secs. 2 and 3.
	Over mountainous land.
	Ascend
12.00	Top of ridge bears E. and W.
	Descend
39.67	Set a limestone 12 x 10 x 3 ins., 8 ins. in the ground for 1/4 sec. cor. & marked 1/4 on N. face: dig pits 18 x 18 x 12 ins. N. and S. of stone & distant and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
	Ascend gradually
79.67	The cor. of secs. 2, 3, 10 and 11.
	Land rolling and mountainous.
	Soil sandy loam and clay, Rudrate.
	No timber.
	Mountainous land or dense undergrowth on 79.67 chs.

May 8: At this cor. I set off 17°19' N. on the decl. arc and at 0h00m l.m.t. observe the sun on the meridian, the resulting lat. is 37°37' N.

May 8: 1897

Subdivisions of T.37 S. R 2 W.

Chain.	
	From the cor of secs 21, 22, 27 and 28 which I set before from
	N 0°02' W bet secs 21 and 22
	Over rolling land
33.00	Ascend abruptly
39.00	Top of white ridge bears E and W.
	Descend
40.00	Set sandstone 12×10×6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face, from which
	A cedar 10 ins diam bears S. 58 W 61 lks dist marked 1/4 S. B.T.
	Cedar 10 ins diam bears S. 45° W 51 lks dist marked 1/4 S. B.T.
	Descend gradually
80.00	Set a sandstone 16×10×4 ins, 12 ins in the ground for cor of secs. 15, 16, 21 and 22, marked with 3 notches on S. and E edges
	Dig pits 18×18×12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high N of cor.
	In S.E. pit drove a pine stake 3 ft long, 2 ins sq. 12 ins in the ground marked T 37 S. R. 2 W on N.E. R 2 W. S. 22. on S.E. S. 21. on S. W and S. 16 on N.W. faces with 3 notches on the S. and E edges.
	Land mountainous and rolling. Soil sandy loam and stony! 2nd and 4th rate
	No timber
	Mountainous land or dense undergrowth on 80.00 chs.

Subdivisions of T. 37 S. R 2 W.

Chains. May 19: At 9h 00m a.m. l.m.t.
I set of 37°35' W on the Sat. arc:
17°49' N on the decl. arc. and de-
termined a true meridian
with the solar at the cor of
secs 15, 16, 21 and 22
On account of cliff it is im-
practicable to run E. on
a random line bet secs 15
and 22 therefore I run an
offset line as follows.
S 0°02' E 20.00 chs to a point.
East 43.00 chs to a point.
N 0°02' W 20.00 chs to a point on
line bet secs 15 and 22.
43.00 Set temp witness cor to 1/4 sec cor.
Thence E on a random line.
73.00 Intersect the witness cor to the cor
of secs 14, 15, 22, and 23.
Thence I run.
West on a true line bet secs
15 and 22.
Over rolling land descending
15.00 Road from Henrieville to Escalante
brs. N.E. and S.W.
19.00 West brs S 12° W
Ascend.
37.00 Foot of cliffs
It being impossible to run
further W at this point I es-
tablish temp witness cor as per-
manent witness cor to the 1/4 sec
cor bet secs 15 & 22 as follows.
Set a sand stone 12 x 8 x 8 ins 8 ins in
the ground marked W C 1/4 on N face
from which
A pine 10 ins diam bears N 57° E 35 lks dist
marked W C 1/4 S. B.T.
A pine 10 ins diam bears S 23 W 66 lks dist
marked W.C. 1/4 S. B.T.
40.00 Cor not set.

Subdivisions of T. 37 S. R. 2 W.

Chains.	
80.00	The cor. of secs. 15, 16, 21 and 22 Land rolling and mountainous. Soil sandy loam and rocky: 2nd and 4th rate Timber very scattering pine Mountainous land or dense undergrowth on 80.00 chs.
	It being impracticable to run N on the line bet secs 15 and 16 on account of perpendicular cliffs therefore I run on meander line as follows. N 45°02'W 28.28 chs. thence N 44°58'E 21.21 chs thence East 5.00 chs to a point on true line bet secs 15 and 16 5.00 chs S of the true 1/4 sec cor.
35.00	Set a sandstone 18 x 8 x 6 ins 13 ins in the ground for witness cor. to 1/4 sec cor Bet secs 15 and 16 marked W C 1/4 on W face from which. A cedar 12 ins diam bears S 88° E 85 lks dist marked W C 1/4 S B.T. A cedar 12 ins diam bears N 60° W 48 lks dist marked W C 1/4 S B.T. Ascend abruptly.
40.00	The cor. falls on very steep cliffs facing W. and is not set. It being impracticable to measure the dist to top of cliffs by chaining or triangulation from this point therefore I set a flag at the witness cor and go to the cor of sec 10, 11, 14, 15 previously set and run west a distance of 80 chs set temp cor for secs 8, 10, 15, and 16. From this point I measure a line S 88°58'W 20 chs from which point flag brs S 23°59'E Therefore 20 chs x by cot 23°-59' which is 2.261 = 45.00 chs. I therefore establish temp as per permanent cor.

Chains	
80.00	Set a sandstone 18×12×8 ins 13 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 14 ins diam. bears N.63½° E. 22 lks dist. marked T.37.S. R.2.W. S.10 B.T. A pine 12 ins diam bears S.5½° W 28 lks dist. marked T.37.S. R.2.W. S.16 B.T. A pine 14 ins diam bears S.31½° W. 77 lks dist. marked T.37.S. R.2.W. S.16 B.T. A pine 10 ins diam bears N.44° W. 32 lks dist. marked T.37.S. R.2.W. S.9 B.T. Land mountainous Soil rocky & shale. Timber scattering pine and cedar along the line. Mountainous land on 80.00 chs.
	Cash on a random line bet secs 10 and 15.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S line at the cor. of secs 10, 11, 14 and 15 Thence Due West on a true line bet secs 10 and 15 Over broken land through dense cedar and pine timber. Ascend abruptly.
22.62	Top of plateau. 600 feet above cor.
25.15	Edge of small canon dir S.E.
28.30	Descend canon
40.00	Set a sandstone 14×8×6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. from which Cedar 10 ins diam. bears S.27½° E 82 lks dist. marked 1/4 S.B.T. Cedar 10 ins diam. bears N.62° W. 30 lks dist.

Subdivisions of T37 S. R2 W. continued

Chains	
	marked 1/4 S. B.T.
54.37	Gulch descending.
58.00	Bottom of gulch dis S. ascending
62.00	Across gulch
71.00	Edge of gulch descending
73.50	Bottom of gulch dis S. ascending
75.16	Across gulch
80.00	The cor of secs 9, 10, 15 and 16
	Land mountainous or broken
	Soil rocky: 4th rate
	Timber pine and cedar.
	Mountainous land or heavily timbered on 80.00 chs.
	May 10: At this cor. I set off 17°50' N on the sol. axis and at 0.00 in l.m.t observed the sun on the meridian. The resulting lat is 37°36'
	N 0°02' W bet. secs 9 and 10
	Over rolling land through dense undergrowth and timber.
30.00	Leave timber
40.00	Set a cedar post 3 ft long 4 ins sq. with quart ye hardwood 2 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N face from which.
	Pine 9 ins diam bears N 73° E 149 lks dist. marked 1/4 S. B.T.
	Cedar 7 ins diam bears S. 87° E. 79 lks dist. marked 1/4 S. B.T
45.00	Enter dense timber
80.00	Set a quartzite stone 12 x 12 x 6 ins 8 ins in the ground for cor. of secs. 3, 4, 9 and 10 marked with 5 notches on S. and 3 on E edges
	From which

Subdivision of T.37.S. R.2.W. continued

Chain	
	Cedar 10 in diam bears N 23° E 100 lks dist. marked T.37.S. R.2.W. S.3 B.T.
	Cedar 10 in diam bears S 74° E 94 lks dist. marked T.37.S. R.2.W. S.10 B.T.
	Pine 12 in diam bears S 75½° W 57 lks dist. marked T.37.S. R.2.W. S.9 B.T.
	Cedar 8 in diam bears N 76° W. 78 lks dist. marked T.37.S. R.2.W. S.4. B.T.
	Land rolling
	Soil sandy 4th rate.
	Timber pine and cedar
	Heavily timbered or dense undergrowth on 80.00 chs.
	East on a random line bet secs 3 and 10
40.00	Set limp ¼ sec. cor.
80.00	Intersect N and S. line at cor of secs 2, 3, 10 and 11.
	Thence S run West on a true line bet secs 3 and 10
	Over mountainous land
50.00	Descending
80.00	Hollow 100 ft below cor dis S
	Ascending abruptly
35.30	Top of plateau 600 ft above valley
40.00	Set a limestone 12 x 8 x 10 in 8 in in the ground for ¼ sec. cor. marked ¼ on N. face from which (rule-heavy timber)
	Cedar 8 in diam bears S 72° E 30 lks dist. marked ¼ S. B.T.
	A pine 9 in diam bears N 54° W 17 lks dist. marked ¼ S. B.T.
80.00	The cor of secs. 3, 4, 9 and 10
	Land mountainous and rolling
	Soil sandy and stony 4th rate
	Timber pine and cedar.
	Mountainous land or heavily timbered on 80.00 chs.

Subdivisions of T.37 S. R.2 W.

Rain	N 0°02' W on a random line bet secs. 3 and 4
40.08	Set temp 1/4 sec. cor.
79.60	Intersect N bdy of Tp 37 lks W. for cor of secs 3, 4, 33 and 34
	Thence Drum
	S. 0° 14' W on a true line bet secs 3 and 4
	Over mountainous land ascending gradually
15.00	Ascend abruptly + enter heavy timber
35.00	Top of plateau 300 ft. high
39.60	Set a limestone 16 x 8 x 4 ins, 12 ins in the ground for 1/4 sec. cor. mat'd 1/4 on N. face from which
	Cedar 16 ins diam bears N 74° E 68 lks dist marked 1/4 S. B.T.
	Pine 16 ins diam bears S 9° W. 23 lks dist marked 1/4 S. B.T.
	Through dense timber.
79.60	The cor. of secs 3, 4, 9 and 10.
	Land mountainous and rolling.
	Soil sandy and stony; 4th rate
	Timber pine and cedar.
	Mountainous land or dense undergrowth on 79.60 chs.
	Heavily timbered on 64.60 chs
	May 10

Subdivisions of T.37 S. R.2 W. continued

Chains.	
	From the cor of secs. 4, 5, 32 and 33 on the S. bdy of the Tp. which I set heretofore I run N 0°03' W. bet secs 32 and 33. Over mountainous land through heavy timber.
10.00	Descend abruptly. leave timber
30.00	Descend more gradual
40.00	Set a limestone 16x8x6 ins. 12 ins in the ground for 1/4 sec cor. marked 1/4 on W. face dig pits 18x18x12 ins. N and S. of stone 3 ft. diet and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
43.00	Bottom of hollow 600 ft below top of bluff. Ascend
45.00	Top of sharp ridge. Drs E and W. Descend gradual
54.75	Dry wash drs W ascend
60.00	Descend
65.00	Creek 10 lks wide drs S 50° W. Ascend
80.00	Set a limestone 18x10x10 ins., 13 ins in the ground for cor. of secs 28, 29, 32 and 33. dig pits 18x18x12 ins in each sec 5½ ft diet and raise a mound of earth 4 ft base 2 ft high W of cor.

Land mountainous and broken.
Soil sandy loam and rocky! 2nd and 4th rate
Timber pine and cedar.
Mountainous land heavily timbered or dense undergrowth on 8.00 chs.

May 11. At 9h 00m l.m.t. I set off 37° 33' on the lat. arc: 18° 05' N on the decl. arc: and determined a true meridian with the solar at the cor of secs 28, 29, 32 and 33.

Subdivisions of T37.S. R2.W. continued

Chains	
	East on random line bet secs 28 and 33.
40.00	Set temp 1/4 sec cor.
79.86	Intersect N. and S. line at cor of secs 27, 28, 33 and 34
	Thence Drun
	West on a true line bet secs 28 and 33.
	Over rolling land ascend
1.50	Top of ridge bears N. and S.
	Descend
4.10	Fence brs N20°W and S20E
	Enter fields
37.60	Leave fields ascend abruptly.
39.93	Set a sandstone 12 x 10 x 6 ins 8 ins in ground for 1/4 sec. cor, marked 1/4 on N. face from which
	Cedar 12 ins diam bears N16°E. 44 lks dist. marked 1/4 S.B.T.
	Pine 16 ins diam bears S2°W. 24 lks dist. marked 1/4 S.B.T.
	Descend abruptly.
42.00	Top of ridge brs N and S. over broken land through dense brush.
61.00	Creek 10 lks wide drs S.W.
79.86	The cor. of secs 28, 29, 32 and 33.
	Land rolling and mountainous.
	Soil sandy loam and stony:
	2nd and 4th rate
	No timber
	Mountainous land or dense undergrowth on 79.86 chs.

	N0°03' W bet secs 28 and 29.
	Over rolling land through dense undergrowth.
30.00	Ascend
39.00	Top of hill x bunch
40.00	Set a sandstone 14 x 10 x 4 ins 3 ins in

Chain.

The ground for 1/4 sec. cor. marked 1/4 on W. face: dig pits 18 x 18 x 12 ins. North & S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W of cor.

It being impracticable to continue N on the true limit between secs. 28 and 29 on account of cliffs 300 ft high I run as follows.

From the 1/4 sec. cor. just sch West on offset line.

0.20 fence bts S.W. & N.E.

0.80 Road from Heavyville to Cannonville.

10.00 to a point, thence N 0°03' W 40.00 chs to a point thence East 10.00 chs to the cor. of secs. 20, 21, 28 and 29.

— 80.00 Set a sandstone 14 x 10 x 8 ins. Quin 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

Cedar 15 ins diam bears S 51½° E 104 lks dist. marked T.37 S. R.2 W. S. 28 B.T.

Apple 9 ins diam bears S 34° W. 187 lks dist. marked T.37 S. R.2 W. S. 29. B.T.

Cedar 10 ins diam bears S. 87° W. 89 lks dist. marked T.37 S. R.2 W. S. 29. B.T.

Cedar 11 ins diam bears N 33° W. 85 lks dist. marked T.37 S. R.2 W. S. 20. B.T.

Land mountainous and rolling Soil sandy and rocky 2nd and 4th rate

No timber.

Mountainous land or dense undergrowth on 80.00 chs.

Subdivision of T.37 S. R2 W. continued.

Chains.	
	East on a random line bet. secs. 21 and 28
40.00	set temp 1/4 sec. cor.
79.90	Intersect N and S. line at the cor. of secs. 21, 22, 27 and 28
	Thence Trum
	West on a true line bet. secs 21 and 28.
	Over rolling land. leave field ascend
10.00	Cemetery bears N. 10 chs dist.
17.50	Fence bears N. and S.
27.00	Top of ridge bears S 20° E and N. 20° W. descend
39.95	Set sandstone 12 x 8 x 4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins E and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft high W of cor.
	Ascend
70.00	Foot of bluff. ascend abruptly
74.00	Top of bluff 300 ft high.
79.90	The cor of secs 20, 21, 28 and 29.
	Land rolling and mountainous. Soil sandy loam and stony 2nd and 4th rate.
	No Timber.
	Mountainous land or dense undergrowth on 79.90 chs.

May 11: At this cor. I set off 18° 06' W. on the decl. arc and observed the sun on the meridian at 0h 00m l.m.t. the resulting lat. is 39° 34'

Chains.	
	N 0°03' W bet secs 20 and 21 Over mountainous land, stony ridges and hollows at foot of cliffs. through scattering timber.
40.00	Set a sandstone 12 x 10 x 8 ins., 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raise a mound of stone 2 ft base 1½ ft high West of cor. pits impracticable.
58.00	Dry wash dis S 10° W. ascend
80.00	Set a sandstone 16 x 12 x 4 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: dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high W of cor. Land mountainous and rolling. Soil sandy and stony; 2nd and 4th rate. Timber scattering pine and cedar Mountainous land or dense undergrowth on 8.00 chs.
	East on a random line bet secs 16 and 21
21.00	Foot of impassable cliffs set temp Witness cor. thence I run on offset line as follows. North 0°03' W 20.00 chs East 39.00 S 45° 0' E 28.28
80.00	Intersect N. and S. line at the cor. of secs. 15, 16, 21 and 22 Thence West on a true line bet secs 16 and 21

Subdivisions of T37S. R.2. W. continued

Chains	
	Ascend abruptly over impassable cliffs. rule-scalling timber
40.00	The 1/4 sec. cor not set
59.00	Set limp witness cor as permanent witness cor as follows
	Set a sandstone 12x10x8 ins. 8 ins. in the ground for witness cor to 1/4 sec. cor. marked W.C. 1/4 on N. face; from which
	A pine 8 ins diam bears S 3° E. 29 lks dist. marked W.C. 1/4 S.B.T.
	A cedar 8 ins diam bears N 87° W. 7 lks dist. marked W.C. 1/4 S.B.T.
59.50	Foot of bluff. ascend abruptly.
61.00	Top of sharp ridge bears N. and S.
63.00	descend more gradual bear timber.
67.80	Dry wash dis S.W. ascend
80.00	The cor. of secs. 16, 17, 20 and 27
	Land mountainous and rolling.
	Soil stony; 4th rate
	Timber pine and cedar.
	Mountainous land or dense undergrowth on 80.08 chs.
	N 0°03' W bet secs. 16 and 17
	Over mountainous land
	Ascend
18.00	Dry wash dis E.
26.00	Enter very broken ridges and hollows. along bottom of canon
40.00	Set a sandstone 14x12x6 ins 9 ins in the ground for 1/4 sec cor marked 1/4 on W. face from which
	A pine 12 ins diam. bears S 26° E 5 lks dist marked 1/4 S.B.T.
	A cedar 14 ins diam bears N 16 1/3° W 72 lks dist. marked 1/4 S.B.T.
	Ascend abruptly

Subdivision of T37 S. R3 W. continued

Chains	
61.25	Top of cliffs 500 ft high
	Are broken land
80.00	Set a quartzite 12x10x10 ins 8 ins
	in the ground for cor of secs
	8, 9, 16 and 17 marked with
	4 notches on S and E edges
	dig pits 18x18x12 ins in each
	c.e 5½ ft dist and raise a
	mound of earth 4 ft base
	2 ft high N. of cor.
	Land mountainous
	Soil rocky: 4th rate
	Timber very scattering pine
	and cedar
	Mountainous land or dense
	undergrowth on 80.00 chs.
	May 11

	May 12: At 8 hrs 00 mins l.m.t.
	I set off 37°36' on the left are
	18°19' off on the det are: and determined a true meridian with
	the solar at the cor of secs 8, 9, 16
	and 17. Thence I run
	East on a random line
	Set secs 9 and 16
40.00	Set temp ¼ sec cor.
80.00	Intersect the cor of secs 9, 10,
	15 and 16.
	Thence I run
	West on a true line set secs
	9 and 16
	Over rolling and mountainous
	land through dense timber
27.00	descending into canon
40.00	Set sandstone 13x8x6 ins 8 ins in
	the ground for ¼ sec cor marked
	¼ on N. face and raise a mound
	of stone 2 ft base 1½ ft high N. for

Subdivision of T.37 S. R.2 W. continued

Chains	
	pits impracticable
	Ascend
43.00	across gulch. gulch dir S.W.
71.00	Descend into canon dir. S
76.00	Across canon
80.00	The cor of secs. 8, 9, 16 and 17.
	Land rolling and mountainous.
	Soil sandy and stony 12 and 4 rate
	Timber pine and cedar.
	Heavily timbered or dense undergrowth on 80.00 Chs.

North 0°03' W. bet secs 8 and 9
Over rolling land through
dense undergrowth.

30.00	Enter dense cedars
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in.
	the ground for 1/4 sec cor. marked
	1/4 on N. face. from which
	Cedar 10 ins diam bears N70°E 4 lks dist.
	marked 1/4 S.B.T.
	Cedar 10 ins diam bears S.72°W. 26 lks dist.
	marked 1/4 S.B.T.
43.00	Descend
70.00	Foot of slope - faces to N.
80.00	Set sandstone 12 x 10 x 8 ins 8 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
	Cedar 8 ins diam bears N78°E. 7 lks dist.
	marked T.37 S. R.2 W. S.4 B.T.
	Cedar 10 ins diam bears S64½°E. 22 lks dist.
	marked T.37 S. R.2 W. S.9 B.T.
	Cedar 14 ins diam bears S.83½°W. 58 lks dist.
	marked T.37 S. R.2 W. S.8 B.T.
	Cedar 14 ins diam bears N53°W. 102 lks dist.
	marked T.37 S. R.2 W. S.5 B.T.

Subdivisions of T. 37 S. R. 2 W. continued

Chains	
	Land mountainous and rolling Soil sandy and stony 2nd and 4th rate Timber pine and cedar. Mountainous land, heavily timbered or dense undergrowth on 80.00 chs.
	East on a random line bet sec 4 and 9.
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N. and S. line 10 lks S. of cor of secs. 3, 4, 9 and 10 Thence Drum S 89°56' W on a true line bet secs 4 and 9 Over rolling land through dense timber
110.05	Set a limestone 12x8x5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Cedar 16 ins diam bears S. 9½° W. 39 lks dist. marked 1/4 S. B. T. Pine 16 ins diam bears N. 20° W. 37 lks dist. marked 1/4 S. B. T.
111.00	Descend
60.00	Foot of slope 200 feet below top Leave dense timber.
74.00	Dry wash dir S.
80.10	The cor of secs 4, 5, 8 and 9 Land rolling and mountainous Soil sandy and stony 3rd and 4th rate. Timber cedar and pine. Mountainous land, heavily timbered or dense undergrowth on 80.10 chs

Subdivisions of T. 37 S. R. 2 W. continued

Chain	North 0°03' W on a random line bet sec 4 and 5
40.00	Set temp 1/4 sec. cor.
79.80	Thence N bey of Tp 41 lks W of cor of secs. 4, 5, 32 and 33
	Thence Down
	S 0°15' W on a true line bet secs 4 and 5
	Over open flatt
10.00	Ascend abruptly through dense timber
35.00	Top of bench 300 feet above cor.
39.80	Set a limestone 12×10×8 ins 8 ins in the ground for 1/4 sec cor
	marked 1/4 on W. face from which
	Cedar 11 ins diam bears S 84½° E. 64 lks dist.
	marked 1/4 S. B. T.
	Cedar 10 ins diam bears S 41° W. 20 lks dist.
	marked 1/4 S. B. T.
79.80	The cor of secs 4, 5, 8, and 9.
	Land rolling and mountainous
	Soil sandy loam and strong!
	2nd and 4th rate
	Timber cedar and pine.
	Mountainous land heavily timbered or dense undergrowth
	on 79.80 chs.
	May 12: 1897.

Subdivisions of T.37 S. R.2 W.

Chains.	
	From the cor of secs 5, 6, 31 and 32 on the S. bdy of the Tp which I set heretofore, I run N 0°03' W bet secs 31 and 32 Over mountainous land Descend abruptly through scattering timber
29.00	Foot of bluff, cruck 10 lks wide dis N. ascend gradually
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on W face: dig pits 18x18x12 ins N. and S. of post 3 ft distant and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
80.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for cor of secs 29, 30, 31 and 32 marked T 37 S. S 29 on N.E. R 2 W. S. 32 on S.E. S. 31 on S. W. and S 30 on N.W. faces with 1 notch on S. and 5 notches on E edges: dig pits 18x18x12 ins in each sec. 5½ ft. distant and raise a mound of earth 4 ft base 2 ft high W. of cor. Land mountainous and rolling Soil sandy loam and clay 2nd and 4th rate Timber very scattering cedars and pines Mountainous land or dense undergrowth on 80.00 chs.

May 13: At 9h 00m a.m. l.m.t I set off 37'33' on the dat: arc, 18°34' N on the decl arc and determined

Subdivisions of T. 37 S. R. 2 W. continued

Chains	
	a true 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
	Over rolling land.
40.00	Set temp 1/4 sec cor.
79.90	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 rolling land ascending.
.57	Fence bro N. and S.
1.00	Dry wash dis: S.
39.95	Set a sandstone 14 x 8 x 4 ins 8 ins in the ground for 1/4 sec cor, marked 1/4 on N face: dig pits 18 x 18 x 12 ins East N. of stone and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
49.00	Top of ridge descend.
59.27	Fence bro N. and S.
74.00	Dry wash dis S.
79.90	The cor. of secs 29, 30, 31 and 32.
	Land rolling and mountainous
	Soil sandy 2nd rate.
	No timber
	Mountainous land or dense undergrowth on 79.90 chs.

	West on a random line bet secs 30 and 31.
40.00	Set temp 1/4 sec. cor.
78.73	Intersect W. bdy of Tp. at the cor. of secs 25, 30, 31 and 36.
	Thence I run
	East on a true line bet secs 30 and 31
	Over mountainous land

Chain.	
	through scattering timber. Descending along N. edge of plateau.
38.23	Set a sandstone 12 x 10 x 8 ins., 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face, and raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Descends gradually through dense undergrowth.
38.53	Road bears N. and S.
47.50	Creek 12 lks wide dis. S. 10° E. Paria River
	Ascend gradually
51.10	Fence bears N. and S.
69.70	Fence bears N. and S.
76.23	Road bears N. and S.
78.23	The cor. of secs 29, 30, 31 and 32.
	Land mountainous and rolling. Soil sandy loam and rocky: 2nd and 4th rate. Timber pine and cedar. Mountainous land or dense undergrowth on 78.23 chs.

	N. 0°03' W. bet secs 29 and 30. Over mountainous land through dense undergrowth.
	Ascend
31.00	Road bears E. and W. from Kanarraville to Cannonville.
40.00	Set a sandstone 17 x 12 x 6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W. face: dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W. of cor. Ascend abruptly over breaks and cliffs
50.00	Top of ridge bears N. and S.

Subdivisions of T37S. R.2. W. continued

Chains	
80.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for cor of secs 19, 20, 29 and 30 marked with 2 notches on S. and 5 notches on E edges. raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable Land Mountainous Soil sandy and rocky: 2nd x 4th rate No timber. Mountainous land or dense undergrowth on 80.00 chs. May 13: At this cor. Sect of 18°36' N. on the decl arc. and at 0h 00m l.m.t. observed the sun on the meridian. the resulting lat is. 37°34' N.
	Back on a random line bet secs. 20 and 29
12.00	The line runs over impassable cliffs then form at this point I run on an offset line as follows. S 0°03' E 12.00 chs thence East 33.00 chs. thence N 0°03' W. 12.00 chs to a point on line bet secs 20 and 29
45.00	Set temp witness cor.
80.00	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 rolling land through dense undergrowth.
35.00	Foot of cliff. set temp witness cor as permanent witness cor as follows.

Subdivisions of T33S. R.2W. Continued

Chain	a quartzite 12 x 8 x 8 ins 8 ins in the ground for witness cor to 1/4 sec. cor. marked W.C. 1/4 on W. face from which
	Cedar 6 ins diam bears S75°W. 82 lks dist. marked W.C. 1/4 S.B.T.
	Cedar 7 ins diam bears N22°W. 44 lks dist. marked W.C. 1/4 S.B.T.
40.00	cor falls on side of cliffs - not set
68.00	point of offset on W. side of cliffs.
	Ascend abruptly through cedars and pines.
80.00	The cor of secs 19, 20, 29 and 30
	Land rolling and mountainous
	Soil sandy loam and rocky! 2nd and 4th rate.
	Timber scattering pine and cedar
	Mountainous land or dense underbrush - on 80.00 chs.
	Wch on a random line bet secs 19 and 30
40.00	Set temp 1/4 sec cor
78.15	Intersect W. bdy of Tp at the cor of secs 19, 24, 25 and 30
	Thence S 0.15
	East on a true line bet secs 19 and 30
	Through the village of Ammonville.
1.50	Across street fence
8.94	Fence cross-street bts N and S.
10.44	Fence bts N & S. lane street
14.53	Fence, cross-street bts N. and S.
19.03	Fence bts N. and S. lane street
22.88	Fence bts N. and S.
23.00	Creek flat
27.00	Creek 10 lks wide dis S. Misiotte Parca River
38.15	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec cor

Chains.	
	marked 114 on N face. dig pits 18 x 18 x 12 ins E and W. of stone 3 ft deep and raise a mound of earth 3½ ft base 1½ ft high N of cor.
73.00	Foot of bluff ascend abruptly
78.15	The cor of secs 19, 20, 29 and 30
	Land rolling and mountainous.
40.00 / 38.15	Soil sandy loam and stony: 1st and 4th rate.
	No timber.
	Mountainous land or dense undergrowth on 40.00 chs.
	It being impracticable to run N 0°03' W along the true line bet. secs. 19 and 20 on account of breaks along side of bluff therefore from a point 12.00 chs East of the cor of secs 19, 20 29 and 30 I run an offset line as follows.
	N 0°03' W. 40.00 chs. thence West 11.00 chs to a point for 114 sec. cor.
40.00	The true cor point falls on very steep slope where the cor. can not be retained therefore at a point 1.00 ch East of the true cor point I set a sandstone 12 x 8 x 6 ins 8 ins in the ground for witness cor to 114 sec cor. marked W.C. 114 on W. face from which
	Pine 8 ins diam bears S 32° E 58 lks dist. marked W.C. 114 S.B.T.
	Pine 12 ins diam bears N 3° W 118 lks dist. marked W.C. 114 S.B.T.
	Thence I continue N 0°03' W on the offset line 70.00 chs

Chains	
	Thence West 12 chs. to
70.00	a point on true line
	Ascend abruptly through timber
80.00	Set a sandstone 16×8×8 ins 18 ins
	in the ground for cor of secs.
	17, 18, 19 and 20 marked with
	3 notches on S and 5 notches on
	E edges from which
	Spine 12 ins diam bears N 60½° E 26 lks dist.
	marked T37S R2W S 17 B.T.
	Cedar 16 ins diam bears S 55° E 95 lks dist.
	marked T37S R2W S 20 B.T.
	Cedar 12 ins diam bears S 61½° W 57 lks dist
	marked T37S R2W S 19 B.T.
	Spine bush diam bears N 40½° W 93 lks dist.
	marked T37S R2W S 18 B.T.
	Land mountainous
	Soil rocky 4th rate
	Timber pine and cedar
	Mountainous land on 80.00 chs.

	Back on a random line bet
	secs 17 and 20
40.00	Set temp 1/4 sec cor.
80.20	Intersect N and S line 12 lks
	S of cor of secs 16, 17, 20 and 21
	Thence Run
	S 89°55' W on a true line bet
	secs 17 and 20
	Ascend
19.00	Top of plateau 400 feet high
	through scattering timber
40.10	Set sandstone 13×8×4 ins 8 ins
	in the ground for 1/4 sec. cor.
	marked 1/4 on N. face and raise
	a mound of stone 2 ft base
	1½ ft high N. of cor.
	pits impracticable.
	Over very broken land
80.20	The cor of secs 17, 18, 19 and 20

Subdivisions of T. 39 S. R 2 W continued.

Chain	
	Land mountainous and rolling. Soil stony: 4th rate Timber pine and cedar Mountainous land or dense undergrowth on 80.25 Chs. May 13. 1897
	West on a random line bet secs 18 and 19
40.00	Set temp 1/4 sec. cor.
78.05	Intersect W bdy of Tp 10 lks So of the cor. of secs 13, 18, 19 and 24
	Thence Drain S 89°56' E on a true line bet secs 18 and 19.
	Enter field
17.00	Creek 12 lks wide dis S. Paria River
22.00	Reservoir
24.00	Across reservoir.
	ascend abruptly
27.75	Set a sandstone 12 x 10 x 8 ins, 8 ins in the ground for witness cor. of 1/4 sec. cor. marked W C 1/4 on W face: dig pits 18 x 18 x 12 ins E and W. of stone and raise a mound of earth 3 1/2 ft base 1 1/2 ft high W. of cor.
38.05	Set a sandstone 12 x 10 x 4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face, and raise a mound of stone 2 ft base 1 1/2 ft high W. of cor.
	Pits impracticable.
	Over very broken land, descend,
74.00	Ascend abruptly
78.05	The cor. of secs 17, 18, 19 and 20
	Land mountainous and rolling Soil sandy loam and stony; 1st and 4th rate

Chains	Notes
	No timber Mountainous land or dense undergrowth on 78.05 chs.
	May 14. At 8 h 00 m a.m. l.m.t. I set off 37° 35' on the lat. arc. 15h 48 m. on the decl. arc: and determined a true meridian with the solar at the cor. of secs 17, 18, 19 and 20 Thence Down No° 03' W bet. secs 17 and 18 Over mountainous land
1.84	Descend through scattering timber
5.00	Ascend
9.24	Top of ridge brs E. and W. Descend over ridge and follows
28.00	Ascend
38.00	Ridge descend brs E. & W.
39.35	Set a limestone 12 x 12 x 8 ins 8 ins in the ground for witness cor to 1/4 sec. cor. marked W.C. 1/4 on W. face; from which Cedar 6 ins diam bears S 77½° E 101 lks dist. marked W.C. 1/4 S.B.T. Cedar 10 ins diam bears S. 79° W. 23 lks dist marked W.C. 1/4 S.B.T.
40.00	The true cor. falls on a steep slope where cor. can not be set. Ascend abruptly.
42.00	Top of flat ridge
80.00	Set quartzite rock 12 x 10 x 8 ins. 8 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 Cedar 9 ins diam bears N 80½° E 92 lks dist marked T37S. R2W. S.8. B.T. Cedar 24 ins diam bears S 41½° E 53 lks dist marked T37S. R2W. S.17 B.T.

Subdivision of T37 S. R2 W. continued.

Chains	
	Pedar 10 lis diam bears S.67° W. 49 lks dist. marked T37 S. R2 W. S18 B.T.
	Spene 10 lis diam bears N 9⅔° W. 18 lks dist. marked T37 S. R2 W. S7 B.T.
	Land mountainous and rolling
	Soil sandy and rocky: 4th rate
	Timber pine and cedar
	Mountainous land or dense undergrowth on 80.00 chs.
	N 89°55' E on a random line bet secs 8 and 17
40.00	Set limp ¼ sec. cor.
80.00	Intersect N. and S. line 8 lks N of cor of secs 8, 9, 16 and 17
	Thence Drun S 89°58' W on a true line bet secs 8 and 17
	Over rolling land though dense timber
70.00	Descend
40.00	Set a quartzite 12 x 8 x 8 ins 8 ins in the ground for ¼ sec. cor. marked ¼ on N. face from which
	Pedar 20 lis diam bears N 66° E. 38 lks dist. marked ¼ S. B.T.
	Spene 6 lis diam bears S 42½° W. 11 lks dist. marked ¼ S. B.T.
83.00	Bottom of hollow dry S. ascend
61.00	Top of hill
80.00	The cor of secs 7, 8, 17 and 18
	Land rolling
	Soil sandy and stony: 2nd rate
	Timber pine and cedar
	Dense undergrowth on 80.00 chs.

Subdivisions of T37 N. R2 W. continued

Dom. N 89°46' W on a random line bet secs 7 and 18
40.00 Set stone 1/4 sec. cor.
77.50 Intersect W. bdy of Tp 12 lks S. of cor of secs 7, 12, 13 and 18
Thence Drum
S 89°50' E on a true line bet secs 7 and 18
Ascend to plateau
10.28 Left plateau 100 ft chains cor. to the following timber
37.88 Set a sandstone 20 x 18 x 2 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. from which
Open 15 ins drain bears S 41° E. 51 lks dist. marked 1/4 S. B. T.
Open 18 ins drain bears N 87 W 76 lks dist marked 1/4 S. B. T.
77.88 The cor of secs. 7, 8, 17 and 18.
Land mountainous and rolling
Soil sandy and clayey loam and strata
Timber pine and cedars.
Mountainous land or dense undergrowth - our 77.88 chs.

N 0°03' W bet secs 7 and 8
Over mountainous land through dense timber
30.00 Descend from plateau
40.00 Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
Open 6 ins drain bears N 70° E. 11 lks dist marked 1/4 S. B. T.
Open 4 ins drain bears S. 5° E 6 lks dist marked 1/4 S. B. T.
Along N. side of ridge
[illegible] Descend abruptly
[illegible] Big creek in valley due N. on ground

Chains	
58.00	Top of ridge brs E and W. 100 feet high - descend
65.00	Dry wash in gulch Drs S.W. ascend over broken land
80.00	Set a sandstone 13 x 8 x 4 ins 9 ins in the ground for cor of secs 5, 6, 7 and 8 marked with 5 notches on S. and E. edges. from which Cedar 10 ins diam bears S. 11½° W. 58 lks dist. marked T37S. R2W. S.7 B.T. Cedar 16 ins diam bears N. 45° W. 11 lks dist. marked T37S R2W. S.6. B.T. no other tree within limits raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable. Land mountainous fair stony 4th rate Timber pine and cedar Mountainous land and dense undergrowth - on 80.00 chs. May 14. At this cor I set off 18° 50' N on the decl. arc: and at a 100 m. l. m. t. observed the sun on the meridian. the resulting lat is 37° 37' N.
	N. 89° 58' E on a random line bet secs 5 and 8
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N and S. line 11 lks N. of cor. of secs. 4, 5, 8 and 9.
	Thence down. N 89° 57' W on a true line bet secs 5 and 8 Over broken mountainous land through dense timber.

Subdivisions of T. 37 S. R. 2 W. continued

Chains	
13.00	Descend
17.00	Bottom of gulch dir. S. ascend
19.90	across gulch
32.40	Small gulch dir. S.
40.05	Set a cedar post 3 ft long 4 ins sq with marked stone 24 ins in the ground for 1/4 sec cor marked 1/4 on N. face from which Cedar 12 ins diam bears S. 18° E. 36 lks dist. marked 1/4 S. B. T. Pine 14 ins diam bears N. 54° W. 24 lks dist. marked 1/4 S. B. T.
49.50	Descend into canon
53.50	Dry wash dir. S. 70° W.
62.00	Ascend
73.78	Top of ridge descend bearing N. & S. W.
80.10	The cor. of secs 5, 6, 7 and 8. Land broken and mountainous. Soil stony: 4th rate. Timber pine and cedar. Mountainous land and dense undergrowth on 80.10 chs.

N 89° 56' W. on a random line bet secs 6 and 7.

40.00	Set temp 1/4 sec cor.
77.90	Intersect W. bdy of Tp 13 lks S. of cor of secs 1, 6, 7 and 12 which is established heretofore. Thence down S. 89° 48' E. on a true line bet secs 6 and 7 over rolling land
2.00	Ascend
34.18	Top of plateau 400 feet high
37.90	Set a limestone 14 x 10 x 8 ins. 9 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which Pine 14 ins diam bears S. 19½° E. 73 lks dist. marked 1/4 S. B. T.

Subdivisions of Sec. 7. T. 23 N.

Chain	
	Pine 12 inches diam. bears N 0½ W, 55 links distant marked W.L.B.T.
	Over broken land descending
58.40	Bottom of gulch dis. S. W. course
60.74	Descend.
66.20	Ascend
75.12	Top of ridge bet. N.E. and S.W.
77.90	The cor. of secs. 5. 6. 7 and 8.
	Land mountainous
	Soil stony: sub soil rate
	Timber pine and cedar.
	Mountainous land and dense
	undergrowth - on 77.90 chs.
	N 0°03' W, on a random line
	bet. secs. 5 and 6.
40.00	Set temp 1/4 sec cor
79.75	Intersect N. bdy of Tp 30 N. R. 7 W.
	of cor of secs 5, 6, 31 and 32
	Thence Drum
	S 0°6' W on a true line bet
	secs 5 and 6
	Over rolling land ascending.
39.75	Set a sandstone 12 x 8 x 6 ins., 8 ins
	in the ground for 1/4 sec cor
	marked 1/4 on N. face and
	raise a mound of stone
	2 ft base 1½ ft high N. of cor.
	pits impracticable.
41.00	Foot of bluff. ascend abruptly.
53.00	Top of plateau 40 ft high
67.00	Descend into gulch
71.00	Bottom gulch 20 ft deep dis S. W.
	Ascend abruptly
74.00	Across gulch
79.75	The cor. of secs. 5, 6, 7, and 8.
	Land rolling and mountainous
	Soil stony and gravelly: sub soil rate
	Timber scattering pine and cedar.
	Mountainous land and dense undergrowth on 79.75 chs.

May 14. 1899

General Description.

Most of the land in this township is mountainous stony and only suitable for grazing but along the creek bottom the soil is rich sandy loam with some alkali suitable for farming by irrigation. The general formation of the township is sandstone with strata of saline clays. The high plateau lands are covered with a dense growth of scrub pine cedar and some oak service and mahogany. The valley lands are generally covered with artemesia and grease wood brush.

In section 14 and at other places in the northern part of the township there are croppings of bituminous coal but no development has been done and the surface indications will not warrant any sections being returned as coal land.

The only water in the township is found in or along the Paria river and the creek which flows across the southeastern part of the township. Both streams are strongly alkaline in time of low water.

The town of Cannonville lays along the western boundary of the township partly in secs. 19 & 30. It contains one store and about 100 inhabitants.

The town of Henryville is situated in secs 22 and 27. It contains one store and about 200 inhabitants.

Most of the land cultivated lays adjacent to these towns along the Paria River and road from Henryville to Cannonville and and no residences are situated thereon.

There are two settlers in sec 31.
The chief industries are farming and stock raising.

Alfred B Lewis
U.S. Dep Sur

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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.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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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 th ..... day of ....., 189 , 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 ....., the Manual of Surveying Instructions, and the laws of th United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1898

The foregoing field notes of the survey of the Sub-Divisional lines of Township 27 South Range 1 West of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

executed by Alfred B Lewis under his contract No. 211, dated Oct 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B Blair

United States Surveyor General.

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

.....

United States Surveyor General.

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BOOK A-246

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

West, East and South Boundary

of

Township 38 South, Range 2 West

Of the Salt Lake Base and Meridian,

In The State of Utah.

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced May 17th, 1897

Survey completed May 21st, 1897

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North Bdy —	Lots		5-00-00 ✓
East — "	"		6-00-00 ✓
South "	"		4-00-00 ✓
Sum —	"		2-78-77 ✓

NAMES AND DUTIES OF ASSISTANTS.

James E Beatty	Chainman
Ernest M Pratt.	Chainman
Samuel C Lewis.	Monumenter
Frank L Goodwin.	Flagman

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BOOK A-246

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

.....*Chainman.*

.....*Chainman.*

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

SEAL

.....

.....

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

.....*Moundman.*

.....*Moundman.*

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

SEAL

.....

.....

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

.....*Axman.*

.....*Axman.*

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

SEAL

.....

.....

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

.....*Flagman.*

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

SEAL

.....

.....

Mich boundary of T38S R2W.

Chains.	
	Survey commenced May 17 1897 and executed with an L. R. Ottesburgen transit with solar attachment fully described and tested as shown in the field notes of the survey of the exterior of T36 & T3 W. dated Apl 7. 1897. (see book D.)
	May 17: At 8h 00m a.m. l. m t. Deck off 37°32' on the lat. arc: 19°29' W on the decl. arc. and determined a true meridian with the solar at the cor of to 37 and 38 S. R2 and 3. W.
	Thence Dran South bet secs 1. and 6 Over rolling land through dense undergrowth Descend gradually
12.00	Cruck 6 lks wide dir Eastwly! ascend
20.00	Ascend abruptly through scattering pine and cedars.
29.00	Top of ridge brs E. and W. Descend
40.00	Set a sandstone 12x10x4 ins 8 ins in the ground for 1/4 sec. cor marked 1/4 on W. face, from which Cedar 7 ins diam bears N. 17° E. 124 lks dist marked 1/4 B. T. Pine 10 ins diam bears S. 69 W. 86 lks dist. marked 1/4 B. T.
	Leave timber. ascend gradually through dense undergrowth.
80.00	Set a sandstone 20x10x8 ins 15 ins in the ground for cor of secs 1. 6. 7 and 12 marked with 5 notches on S. and 1 notch on N. Edge. From which

West boundary of T38 S. R3 W. continued

Chain	Cedar 8 ins diam bears N72°E 2.00 lks dist. marked T38 S. R2 W. S.6. B.T.
	Cedar 8 ins diam bears N50°E 167 lks dist. marked T38 S. R2 W. S.6. B.T.
	Cedar 20 ins diam bears S.44¾° W. 202 lks dist. marked T38 S. R3 W. S.12 B.T.
	no other trees worth in limits dig pits 18 x 18 x 12 ins in each cor 5½ ft dist and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land mountainous and rolling soil sandy loam and stony 1st and 4th rate
	Timber pine and cedar.
	Dense undergrowth.
	South bet secs 7 and 12.
	Over very rough mountainous land through dense timber.
	Ascending over numerous ridges and gulches draining eastwards.
40.00	Set a sandstone 14 x 12 x 10 ins 9 ins in the ground for ¼ sec. cor. marked 14 on N. face, from which
	Pedar 11 ins diam bears N68½°E. 100 lks dist. marked 14 S.B.T.
	Pine 12 ins diam bears S.76⅔° W 54 lks dist. marked 14 S.B.T.
43.60	Top of ridge bears E and W descending
48.00	bottom ascending
50.48	Ridge bears E & W
52.04	Gulch drs N.E. ascend
62.90	Top of Ridge bears E over broken land
80.00	Set a sandstone 12 x 12 x 4 ins 8 ins in the ground for cor of secs 7, 12, 13 and 18 marked with 4 notches on S. and 2 notches on N. Edges. from which

West boundary of T.38 S. R2 W. continued

Chain:	
	Cedar 10 ins diam bears N 65 2/3° E 24 lks dist marked T.38 S. R2 W. S.7 B.T.
	Cedar 7 ins diam bears N 46 1/2° E 51 lks dist. marked T.38 S. R2 W. S.7 B.T.
	Pine 8 ins diam bears S 77 3/4° W 37 lks dist. marked T.38 S. R3 W. S.13 B.T.
	Pine 12 ins diam bears N 26 10/60° W 54 lks dist. marked T.38 S. R3 W. S.12 B.T.
	Land mountainous. Soil strong 4th rate. Timber pine and cedar. Mountainous land and heavily timbered on 80.00 chs.
	South bet Secs 13 and 18 Over very rough mountainous land throwing heavy timber. Ascend an numerous ridges and gulches dis Easterly.
22.00	Top of plateau
40.00	Set a sandstone 18 x 7 x 4 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	Pine 12 ins diam bears S 89° E 52 lks dist marked 1/4 S. B.T.
	Pine 9 ins diam bears N 28 4/60° W 25 lks dist marked 1/4 S. B.T.
42.00	Cross head of ravine, drs W. into Sheep Creek canon, descend
45.00	Wash (dry) drs E. ascend
73.00	Top of ridge brs E and W.
80.00	Set a sandstone 20 x 12 x 8 ins 15 ins in the ground for cor of secs 13, 18, 19 and 24 marked with 3 notches on S and W. edges. From which
	Cedar 12 ins diam bears N 39° E 74 lks dist. marked T.38 S. R2 W. S.18 B.T.
	Cedar 9 ins diam bears S 38 1/60° E 38 lks dist. marked T.38 S. R2 W. S.19 B.T.

Chain	Pine 8 ins diam bears S. 26 2/3° W. 38 lks dist. marked T38 S. R3 W. S.24 B.T.
	Pine 8 ins diam bears N. 17 1/3° W. 42 lks dist. marked T38 S. R3 W. S.13 B.T.
	Land mountainous.
	Soil sandy and stony 4th rate.
	Timber pine and cedar.
	Mountainous land on 80.00 chs.
	May 17. At this cor. I set off 19° 31' N on the 4 ch. arc and at 8 00 m. l. mt. observed the sun on the meridian. The resulting lat. is 37° 30'
	South bet secs 19 and 24
	Over rolling land through dense timber and undergrowth —
40.00	Oak sandstone 24 x 6 x 6 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. from which
	Cedar 10 ins diam bears N 76 1/2° E 100 lks dist. marked 1/4 S. B.T.
	Cedar 16 ins diam bears S 82 2/3° W. 47 lks dist. marked 1/4 S. B.T.
	Descends gradually
80.00	Oak sandstone 14 x 10 x 6 ins, 10 ins in the ground for cor. of secs. 19, 24, 25 and 30 marked north 2 notches on S. and 4 notches on N. edges. from which
	Pine 14 ins diam bears N 74 2/3° E. 45 lks dist. marked T38 S. R2 W. S.19 B.T.
	Pine 11 ins diam bears S. 27° E. 82 lks dist. marked T38 S. R2 W. S.30 B.T.
	Pine 10 ins diam bears S. 69 1/4° W. 39 lks dist. marked T38 S. R3 W. S.25 B.T.
	Cedar 12 ins diam bears N 59 1/3° W. 125 lks dist. marked T38 S. R3 W. S.24 B.T.
	Land rolling.
	Soil sandy and stony 4th rate

West boundary of T38 S. R2 W.

Chain	
	Timber pine and cedar Heavily timbered and dense undergrowth on 80.00 chs.
	South bdy bet. 25 and 30. Over rolling land through dense undergrowth and timber.
40.00	Pass head of canon 100 ft deep drs W. into Sheep creek canon.
40.00	Set a sandstone 12×10×4 ins., 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which Cedar 10 in diam bears S. 70° E. 52 lks dist. marked 1/4 S. B.T. Pine 8 in diam bears S. 34° W. 65 lks dist. marked 1/4 S. B.T.
78.00	Small ravine drs E. across
80.00	Set a sandstone 20×14×4 ins 18 ins in the ground for cor of secs 25, 30, 31 and 36. marked with 1 notch on S and 5 notches on W. edges from which Pine 8 in diam bears N 40° E 16 lks dist. marked T38 S. R2 W. S.30 B.T. Pine 10 in diam. bears S. 80° E 80 lks dist. marked T38 S. R2 W. S.31 B.T. Pine 11 in diam bears S. 46° W. 24 lks dist. marked T38 S. R3 W. S.36 B.T. Pine 10 in diam bears N. 32½° W. 99 lks dist. marked T38 S. R3 W. S.25 B.T. Land rolling Soil sandy and strong; 4th rate Timber pine and cedar Heavily timbered and dense undergrowth on 80.00 chs. At 110.0 chs South of this cor I came to the edge of Canon 1000 feet deep and 6000 chs or more wide which is impassible May 17 1897

Random South and East boundary of T. 38 S. R. 2 W.

Chain

May 18! At 8 h 00 m a.m. l.m.t. I set off 37°29' on the dab. arc: 19°45' N on the d. d. arc: and determined a true meridian with the solar at the cor of secs 25, 30, 31 and 36.

It being impracticable to continue township line further south on account of impassable cliffs and canon. Therefore I run East on a random offset line 80.00 chs north of the S. bdy. of the Tp. setting temp 1/4 sec. and sec. cors. at intervals of 40.00 chs At 160.00 chs. I run S. 0°03' E 80.00 chs to a point on S. bdy of Tp. 160.00 chs E. of Tp. cor. Thence I run

East on a random line along the S. bdy of Tp. 38 S. R. 2 W. At 6 miles I set temp cor for Ts 38 and 39 S. R 1 and 2 W.

May 18

From the temp cor above mentioned I run on random line North along the E. bdy. of T. 38 S. R. 2 W. At 6 miles I fall 1.23 chs E of cor of Ts. 37 and 38 S. R 1 and 2 W.

Thence I run from the cor to Ts 37 & 38 S. R 1 & 2 W South on a true line bet secs 1 and 6

Pass rolling land through dense undergrowth —

2.00 Bay wash dis S.E.

4.00 Sandstone 16 x 12 x 6 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pit 18 x 8 x 12 ins N and S. of stone and raise a mound of earth 3½ ft base 1½ ft high W. of cor.

East boundary of T.38 S. R.2 W. continued

Chains	
80.00	Set a sandstone 14×10×10 ins 9 ins in the ground for cor of secs. 1, 6, 7 and 12 marked with 3 notches on the S. and 1 notch on N. Edges: dig pits 18×18×12 ins in each sec. 5½ ft dist and raise a mound of earth 4 ft base 2 ft high. N. of cor. Land rolling. Soil sandy loam: 1st rate. No timber. Dense undergrowth on 80.00 chs. May 19
	May 20: At 8h 00m a.m. l.m.t. I set off 37°31′ on the lat. arc: 20°08′ N on the decl. arc. and determined a true meridian with the solar at the cor of secs 1, 6, 7 and 12. thence Down Hill betn secs 7 and 12. Over rolling land gradually descending
40.00	Set a sandstone 12×12×4 ins, 8 ins in the ground for 1/4 sec. cor marked 1/4 on N. face: dig pits 18×18×12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft base, 1½ ft high N. of cor.
80.00	Set a sandstone 12×10×8 ins, 8 ins in the ground for cor. of secs 7, 12, 13 and 18 marked with 4 notches on S. and 2 notches on N. Edges: dig pits 18×18×12 ins in each sec 5½ ft dist. and raise a mound of earth 4 ft base 2 ft high. N. of cor. Land rolling. Soil sandy loam: 1st rate. No timber. Dense undergrowth on 80.00 chs.

Chains	
	South bet secs 13 and 18
	Over rolling land through dense undergrowth.
18.00	Dry wash dir N.
26.00	Dry wash dir N.
40.00	Set a limestone 24×12×12 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18×18×12 ins N and S of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
41.00	Ascend abruptly through timber
49.50	Top of bench enter flat thence E & W
68.00	Ascend abruptly.
76.70	Descend
80.00	Set a sandstone 12×8×6 ins 8 ins in the ground for cor. of secs 13, 18, 19 and 24 marked with 3 notches on S. and N. edges.

From which

Cedar 4 ins diam bears N 75½° E 22 links dist marked T.38 S. R.1 W. S.18. B.T.

Cedar 8 ins diam bears S 24° E 55 links dist marked T.38 S. R.1 W. S.19. B.T.

Cedar 7 ins diam bears S 65° W. 89 links dist. marked T.38 S. R.2 W. S.24. B.T.

Cedar 14 ins diam bears N 33° W. 41 links dist marked T.38 S. R.2 W. S.13. B.T.

Land rolling and mountainous. Soil sandy loam and stony; 1st and 4th rate.

Timber, pine and cedar.

Mountainous land or dense undergrowth on 80.00 chs.

East boundary of T.38 S., R.2 W. - continued.

Chains	
	South bet. secs. 19 and 24
	Over mountainous land thickly
	dense brush and timber
32.00	Dry wash due N. ascend
40.00	Pick quartzite 12 x 10 x 6 ins. 8 ins. in
	the ground for 1/4 sec. cor. marked
	1/4 on N. face from which
	Spruce 10 ins. diam. bears N 74° E. 66 lks. dist.
	marked 1/4 S. B.T.
	Cedar 12 ins. diam. bears S. 60° W. 56 lks. dist.
	marked 1/4 S. B.T.
42.00	Top ridge bears N. Enter broken
	land gradually ascending
72.67	Ascend abruptly.
76.24	Top ridge bears E. & W. 400 feet above
	valley. descend
80.00	Pick sandstone 12 x 10 x 6 ins. 8 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
	Cedar 10 ins. diam. bears N 82½° E. 12 lks. dist.
	marked T.38 S. R.1 W. S.19 B.T.
	Spruce 10 ins. diam. bears S. 18° E. 51 lks. dist.
	marked T.38 S. R.1 W. S.30 B.T.
	Cedar, 10 ins. diam. bears S. 56° W. 131 lks. dist.
	marked T.38 S. R.2 W. S.25 B.T.
	Spruce 6 ins. diam. bears N. 70° W. 62 lks. dist.
	marked T.38 S. R.2 W. S.24 B.T.
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar
	Mountainous land and heavily
	timbered on 80.00 chs.
	May 30, at this cor. I set off 20° 10' N
	on the declination arc and at 0h 00m
	l.m.t. observed the sun on
	the meridian, the resulting
	lat. is 37° 59' N.

East boundary of T.38 N. R.2 W. continued.

Chains	
	South bet secs 25 and 30
	Over mountainous land through dense timber, ascending abruptly.
33.00	Top of slope descend
37.00	Ascend abruptly.
40.00	Falls on steep slope, set a sandstone 12 x 8 x 4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
43.00	As the 1/4 sec. cor. may be destroyed on account of its position on steep side hill at this point I set a sandstone 12 x 10 x 5 ins 8 ins in the ground for witness cor to 1/4 sec. cor. marked W.C. 1/4 on W face from which
	Cedar 10 ins diam bears N.52° E. 56 lks dist. marked W.C. 1/4 S. B.T.
	Cedar 10 ins diam bears S.65° W. 24 lks dist. marked W.C. 1/4 S. B.T.
	Enter level land and dense undergrowth.
80.00	Set a limestone 14 x 10 x 4 ins 9 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. I dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist. and raise a mound of earth 4 ft base 2 ft high W. of cor.
	Land Mountainous and line
	Soil stony 4th rate
	Timber pine and cedar.
	Mountainous and heavily timbered or dense undergrowth on 80.00 chs.
	South bet secs 31 and 36
	Over rolling land through dense bush.

East boundary of T. 38 S. R. 2 W. - concluded

Chains.	
	Descending grade of
40.00	Set a sandstone 18 x 12 x 3 ins 9 ins in the ground for 1/4 sec cor marked 1/4 on W. face; dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
	Ascend
60.00	Culls-timber.
64.00	Leave timber.
77.00	Culls-timber
80.00	Set sandstone 22 x 12 x 6 ins 16 ins in the ground for cor of Ts 38 and 39 S. Rs 1 and 2 W. marked 38 S. on N. E. 1 W. on S. E. 39 S. on S. W. and 2 W. on N. W. faces with 6 notches on each edge from which
	A pine 12 ins diam bears N 40° E 107 lks dist. Marked T 38 S. R. 1 W. S. 31. B. T.
	A pine 14 ins diam bears S 79½° E 80 lks dist. marked T. 39 S. R. 1 W. S. 6. B. T.
	A pine 14 ins diam bears S. 59½° W. 98 lks dist. marked T. 39 S. R. 2 W. S. 1. B. T.
	A pine 11 ins diam bears N 43½° W. 42 lks dist. marked T. 38 S. R. 2 W. S. 36 B. T.
	Land rolling
	Soil sandy, some clay and gravel
	Timber pine and cedar
	Heavily timbered or dense undergrowth on 80.00 chs.
	May 20 1897
	I discharged the temporary corner previously set.

South boundary of T38 S R2 W continued

Chains	
	May 21: At 8 hon. a.m. I set of 37°28' on the Solar & 20°20' W. on the dial, and determined a true meridian with the solar at the cor. of T. 38 and 39 S. R. 1 and 2 W. Thence Drew
	West bet. secs. 1 and 36
	Over mountainous land through heavy timber and dense brush
	Descend gradually
33.00	Descend abruptly
35.00	Enter small flat dis S 20° E
40.00	Set a sandstone 12 x 10 x 7 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Open 4 ins diam bears S 53½° W. 90 lks dist marked 1/4 S. B. T.
	Open 6 ins diam bears N. 60° W. 85 lks dist marked 1/4 S. B. T.
	Ascend abruptly
44.10	Enter very rolling land
60.00	Leave timber, through dense undergrowth
80.00	Set a sandstone 16 x 12 x 3 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
	Cedar 8 ins diam bears N 27° E. 86 lks dist marked T38 S. R2 W. S36 B.T.
	Open 14 ins diam bears S 3¾° W. 227 lks dist marked T39 S. R2 W. S2 B.T.
	Cedar 10 ins diam bears S 46¾° W 109 lks dist marked T39 S. R2 W. S2 B.T.
	Open 9 ins diam bears N 34½° W. 134 lks dist marked T38 S. R2 W. S36 B.T.
	Land mountainous and rolling Soil stony 4th rate
	Timber pine and cedar
	Mountainous land, heavily timbered descending south on 80.00 chs

South boundary of Tp. 38 S. R. 2 W. continued.

Chain.	
	West bet secs 2, and 35
	Over rolling land, through scattering timber and dense undergrowth:
40.00	Set a limestone 12×10×8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18×18×12 ins E and N. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
65.00	Descend gradually.
80.00	Set a sandstone 16×8×8 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 N. edges from which.
	Cedar 12 ins diam bears N. 49¼° E. 299 lks dist. marked T. 38 S. R. 2 W. S. 35. B. T.
	Cedar 10 ins diam bears S. 51¾° E 91 lks dist marked T. 39 S. R. 2 W. S. 2. B. T.
	Pine 10 ins diam bears S. 70½° W. 356 lks dist. marked T. 39 S. R. 2 W. S. 3. B. T.
	Cedar 10 ins diam bears N. 16° W. 176 lks dist. marked T. 38 S. R. 2 W. S. 34. B. T.
	Land rolling
	Soil sandy and stony 12 in ℄ and 4th rate.
	Timber pine and cedar
	Dense undergrowth on 80.00 chs.

	West bet secs 3 and 34
	Over rolling land through dense undergrowth and scattering timber
4.00	Enter heavy timber.
	Descend gradually
28.00	Small gulch dis N. W. a cent ℄
40.00	Set a cedar post 3 ft long 4 ins ℄ 24 ins in the ground for 1/4 sec. cor.

South boundary of T38S. R2W.

Chain	
	marked 14 D on W. face from which
	Cedar 8 in diam bears S. 66° W. 19 lks dist.
	marked 14 C. B. T.
	Cedar 8 in diam bears N 55½° W. 72 lks dist
	marked 14 C. B. T.
58.00	Leave dense timber.
79.00	Dry wash drs. N.
80.00	Set a cedar post 3 ft long, 4 in sq. 24 in in the ground for cor of sec 3, 4, 33 and 34. marked with 3 notches on E and W. edges. from which.
	Cedar 7 in diam bears N 39⅔° E 42 lks dist.
	marked T38S. R2W. D34 B.T.
	Cedar 6 in diam bears S. 51° E, 43 lks dist.
	marked T39S. R2W D3. B.T.
	Pine 8 in diam bears N 10⅔° E 85 lks dist.
	marked T38S. R2W. D34 B.T.
	Cedar 6 in diam bears N. 71½° W. 195 lks dist.
	marked T38S. R2W. D33 B.T.
	Land rolling
	Soil sandy 2nd rate
	Timber pine and cedar
	Dense undergrowth on 80.00 chs.
X	
	West bet sec 4 and 33.
	Over rolling land through scattering timber and dense undergrowth.
40.00	Set a sandstone 12 x 8 x 6 in 8 in in the ground for 1/4 sec cor. marked 1/4 on W face. dig pits 18 x 18 x 12 in E and W. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
53.00	Ascend through heavy timber.
60.00	Top of bench through dense brush.
74.00	Enter heavy timber.

South boundary of T. 38 S. R. 2 W. continued.

Chains	
80.00	Set a sandstone 16 x 12 x 4 in. 12 in. in the ground for cor. of secs. 4, 5, 32 and 33. marked with 4 notches on E. and 2 notches on W. edges from which.
	Cedar 11 in. diam. bears N. 40½° E. 159 lks. dist. marked T. 38 S. R. 2 W. S. 33. B. T.
	Pine 6 in. diam. bears S. 6° E. 70 lks. dist. marked T. 39 S. R. 2 W. S. 4. B. T.
	Cedar 16 in. diam. bears S. 54⅓° W. 60 lks. dist. marked T. 39 S. R. 2 W. S. 5. B. T.
	Cedar 10 in. diam. bears N. 16½° W. 21 lks. dist. marked T. 38 S. R. 2 W. S. 32 B. T.
	Land rolling and mountainous. Soil sandy: second rate. Timber pine and cedar. Heavily timbered or dense undergrowth on 80.00 chs.
	May 21: At this cor. set off 20 h. 12 m. on the declinometer: and at 0 h. 00 m. l. m. t. observed the sun on the meridian: the resulting lat. is 37° 28' N.
	With bet. secs. 5 and 32 over rolling land through heavy timber and dense undergrowth
12.00	Descend abruptly into Para Canon.
28.00	Edge of perpendicular cliffs 800 feet high.
	The fourth falls on bare rock ledge. Cut a cross in rock for witness cor. to 4 sec. cor. marked W. C. 4 on rock ledge N. of cross. and raised a mound of stone 3 ft. base 2 ft. high N. of cor. 3 ft. dist.

South boundary of T38S. R2W. cont

Chains	
40.00	Cor not set.
	Land mountainous
	Soil rocky & light
	Timber pine and cedar
	Mountainous, heavily timbered
	and dense undergrowth on 40.00 chs.
	It being impossible to run further
	W. on this line I abandon it
	at this point and return to
	the cor of secs 4, 5, 32 and 33.
	and proceed to establish an
	auxiliary base line as follows
	From the cor of secs 4, 5, 32,
	and 33 on the N bdy of T39 N R2 W
	Run:
	N 00° 30' W bet secs 32 and 33.

Auxiliary base line for Sldy of T38S R2W.

Chains	From the cor of secs 4, 5, 32 and 33 on the B. Bdy of T. 38 S. R. 2 W. which Dark Chestnut Drum N. 0°03' W. bet secs 32 and 33. Over snow covered land through heavy timber and dense undergrowth, descend
31.00	Bottom of slope, gulch dis N. ascend abruptly.
40.00	Set a sandstone 14 x 12 x 3 ins, 9 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which Pine 18 ins diam bears S. 76½° E. 52 lks dist. marked 1/4 S. B. T. Cedar 10 ins diam bears N. 29¾° W. 52 lks dist. marked 1/4 B. T.
	Over broken land
80.00	Set a sandstone 14 x 12 x 8 ins 9 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 Pine 12 ins diam bears N. 66° E. 109 lks dist. marked T. 38 S. R. 2 W. S. 28 B. T. Pine 18 ins diam bears S. 18½° W. 60 lks dist. marked T. 38 S. R. 2 W. S. 32 B. T. Pine 11 ins diam bears S. 84½° W. 68 lks dist. marked T. 38 S. R. 2 W. S. 32 B. T. Pine 15 ins diam bears N. 51½° W. 76 lks dist. marked T. 38 S. R. 2 W. S. 29 B. T.
	Land mountainous. Soil clay 4th rate. Timber pine and cedar. Mountainous heavily timbered and dense underbrush in 80.00 chs.
	From the cor of secs 28, 29, 32 and 33 above described Drum West bet secs 29 and 32

Auxiliary base line for S. Bdy of T 3 S R 2 W.

Chains	Cross very mountainous land through scattering timber. Descend abruptly.
20.00	Bottom of canon 400 feet deep. ascend abruptly.
31.00	Top of ridge 300 ft high bears N and S. descend abruptly
38.00	Bottom of Paria Canon cross creek 20 lks wide dis south. Ascend abruptly
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable
56.50	Top of plateau 800 ft above creek Set a sandstone 16 x 12 x 4 ins 12 ins in the ground for Meander cor. to 1/4 sec. cor. marked M.C 1/4 on N face from which
	Pine quis diam bears S 8½° W. 39 lks dist. marked M.C. 1/4 B.T.J.
	Pine 10 ins diam bears N 42° W. 16 lks dist. marked M.C. 1/4 B.T.J.
	over rolling land
70.10	Descend into gulch due N.
72.00	Bottom of gulch 60 ft deep ascend
74.50	across gulch
80.00	Set a sandstone 16 x 10 x 6 ins 12 ins in the ground for cor. of sec 5 29, 30, 31 and 32 marked with 1 notch on E and 4 notches on E edge from which
	Cedar quis diam bears N 10½° E 35 lks dist. marked T3S R2W S29 B.T.J.
	Cedar 16 ins diam bears S 35° E. 16 lks dist. marked T3S R2W S32 B.T.J.
	Cedar 20 ins diam bears S. 61° W. 12 lks dist. marked T3S R2W S31 B.T.J.
	Cedar 10 ins diam bears N. 72½° W. 47 lks dist. marked T3S R2W S5 B.T.J.

Auxiliary base line for S. Bdy of Tp 38 S R 2 W.

Chains	
	Land mountainous and rolling Soil rocky; 4th rate Timber pine and cedar. Mountainous land or dense undergrowth on 80.00 chs.
	Meas. Sch. sec. 30 and 36 Over mountainous land through heavy timber and dense undergrowth.
1.00	Ascend into gulch dis N.E. 75 ft deep
4.00	Bottom ascend
12.00	Across gulch. ascend gradually
25.00	Descend into canon 50 ft deep dis N.E.
31.00	Bottom of canon dis N.E.
36.00	Across canon
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for 1/4 sec. cor. marking 1/4 on N. face from which Pine 16 ins diam bears N. 67 1/3° E. 25 lks dist. marked 1/4 S.B.T. Cedar 7 ins diam bears S. 52 1/2° E 36 lks dist. marked 1/4 S.B.T.
66.00	Descend bears N & S
73.00	Ascend " "
78.77	The cor of secs 25, 30, 31 and 36. Land mountainous and rolling Soil sandy and stony 2nd and 4th rate. Timber pine and cedar. Mountainous land, heavily timbered or dense undergrowth on 78.77 chs. May. 21. 1897

Boundaries of T38S. R2.W.

Latitudes, departures and closing error.

Lines designation	True bearing	Dist	Latitudes		Departures	
			N	S	E	W
N bdy. T38S.R2.W.	East	478.33			478.33	
E bdy T38S.R2.W.	South	480.00		480.00		
S bdy sec. 33.34.35 & 36.	West	320.00				320.00
W. bdy secs 33	No°03'W		80.00			.07
S bdy secs 29 and 30	West					158.77
W. bdy secs 6.7.18.19 & 30	North		400.00			
Convergency					.48	
Totals			480.00	480.00	478.81	478.84
						478.81
				Error in departure		.03

General Description.

All the land in this township is suitable for grazing and the land along the Paria River in places is suitable for cultivation by means of irrigation with water from the river. The township is quite mountainous and covered with groves of dense scrub pine and cedar.

There is little water except in the Paria river which flows through the western part of the township.

Alfred B. Lewis
U.S. Dep Surv.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—141

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PAGE

BOOK A-246

30.3.18.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines

of

Township 38 South Range 2 West

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7, 1896

Survey commenced May 3rd, 1897

Survey completed June 1st, 1897

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NAMES AND DUTIES OF ASSISTANTS.

James E Beatty	Chainman
Ernest M Pratt	Chainman
Samuel C Lewis	Roundsman
Frank L Goodwin	Flagman

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Volume
#
R0246

BOOK A-246

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

.....

.....

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

.....

.....

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

.....

..... *Axman.*

..... *Axman.*

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

SEAL

.....

.....

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

..... *Flagman.*

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

SEAL

.....

.....

Subdivisions of T.38 S. R.2 W.

Chains.	
	Survey commenced May 22nd 1897 and executed with an R. R. Strasburger transit with solar attachment. For full description and complete list of instruments by Polaris observation reference is made to the field notes of the survey of the exterior of T.36 S. R.3 W. dated April 7-1897 (see book F.)
	May 22: At 8h 00m a.m. l.m.t. Sett off 57°28' N. on the lat. arc: 20°32' N. on the decl. arc: and determined a true meridian with the solar at the cor. of secs. 1, 2, 35 and 36, on the W. bdy. of T.38 S. R.2 W. Thence down N 0°31' W. betw. secs. 35 and 36. Var 15°25' E
	Over mountainous land through dense undergrowth descend gradually
40.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on W. face from which
	Spence 30 ins diam bears N 44° E 31 lks dist. marked 1/4 S. B.T.
	Cedar 10 ins diam bears N 48° W. 67 lks dist marked 1/4 S. B.T.
	Enter dense cedars.
51.00	Descend abruptly into canon
54.00	Bottom of canon dis. N. ascend.
57.50	Across canon 75 ft deep.
	Over broken land
80.00	Set a limestone 12 x 10 x 8 ins 8 ins in the ground for cor of secs 25, 26, 35 and 36 marked with 1 notch on S and E edges from which.

Subdivisions of T38S. R2 W. continued.

Pair: Pine 12 in diam bears N 86° E 20 lks dist
marked T38S. R2W. S.25 B.T.
Cedar 12 in diam bears S.51° W. 76 lks dist.
marked T38S. R2W. S.35 B.T.
Cedar 18 in diam bears S.86½° W. 32 lks dist.
marked T38S. R2W. S.36 B.T.
Cedar 12 in diam bears N.29° W. 11 lks dist
marked T38S. R2W. S.26 B.T.
Land mountainous and rolling
Soil sandy and stony and ultrate
Timber pine and cedar.
Mountainous land and heavily
Timbered on undergrowth
on 80.00 chs.

East on random line bet
secs 25 and 36
N.0.0 Set temp 1/4 sec cor
S.0.4 Intersect E. body of Tp 8 lks S of
the cor of secs 20, 30, 31 and 36
Thence Drain
S 89°57' W. on a true line bet
secs. 25 and 36
Over rolling land through dense
undergrowth
N.0.4 Set a sandstone 12 x 8 x 6 ins 8 ins
in the ground for 1/4 sec cor
marked 1/4 on N. face; dig pits
18 x 18 x 12 ins E and N. of stone
3 ft dist and raise a mound
of earth 3½ ft base 1½ ft high
Proceed
0.10.0 Descend abruptly through dense
timber
7.10.0 Dry wash drs N. 20 chs
S.0.7 The cor of secs 25, 26, 35 and 36
Rolling mountainous
Soil sandy and stony and ultrate
Timber pine and cedar
Mountainous land and heavily

Subdivision of T.35 S. R.2 W. continued

Chains.	Timbered or dense undergrowth - on 80.17 chs.
	N.0°01' W. bet secs. 25 and 26
	Over mountainous land through
	dense timber and undergrowth during
4.00	Dry wash dir. westerly, ascend
17.00	Ridge bra. E and W. descend
30.00	Ascend bra. E. & W.
34.05	Descend "
39.00	Ascend "
40.00	Set a sandstone 18x9x7 ins. 11 ins. in
	the ground for 1/4 sec. cor. marked
	1/4 on N. face from which
	Cedar 8 ins. diam. bears S. 69½° E. 69 lks. dist.
	marked 1/4 S. B.T.
	Cedar 8 ins. diam. bears N. 10° W. 49 lks. dist.
	marked 1/4 S. B.T.
40.60	Top of ridge bra. N. descend
	abruptly.
44.00	ascend bears E. & W.
49.30	Descend over broken land
80.00	Set a sandstone 12x10x6 ins. 8 ins.
	in the ground for cor. of secs.
	23, 24, 25 and 26 marked with
	1 Not. on E. and 2 not. on
	S. edges from which
	Pine 12 ins. diam. bears S. 38° E. 20 lks. dist.
	marked T.38 S. R.2 W. S.25 B.T.
	Pine 16 ins. diam. bears S. 20° W. 39 lks. dist.
	marked T.38 S. R.2 W. S.26 B.T.
	Cedar 8 ins. diam. bears S. 86° W. 29 lks. dist.
	marked T.38 S. R.2 W. S.26 B.T.
	Pine 10 ins. diam. bears N. 7½° W. 83 lks. dist.
	marked T.38 S. R.2 W. S.23 B.T.
	Land mountainous
	Soil stony; 4th rate
	Timber pine and cedar
	Mountainous land and
	heavily timbered on 80.00 chs.

Subdivisions of T. 38 S. R 2 W. continued.

Chains	
	N 89°54' E on a random line bet. secs 24 and 25
40.00	Set temp 1/4 sec. cor.
80.20	Intersect E. bdy of Tp 4 link S. of cor. of secs. 19, 24, 25 and 30
	Thence Gran
	S 89°55' W on a true line bet. secs 24 and 25
	Over broken mountainous land through heavy timber.
	Descending.
40.00	Set a sandstone 14 x 10 x 6 ins. sunk in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Pine 4 ins diam bears S. 37½° E 54 lks dist. marked 1/4 S.B.T.
	Pine 4 ins diam bears N 71½° W 57 lks dist marked 1/4 S.B.T.
80.20	The cor of secs. 23, 24, 25 and 26
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar.
	Mountainous land and heavy timber on 80.20 chs.
	May 22: At this cor I set off 20°33' N. on the decl. arc: and at 0 h 00 m. l. m. t. observed the sun on the meridian the resulting lat is 37°50' N.
	N 0°01' W bet secs 23 and 24
	Over mountainous land through scattering timber.
	Descending.
40.00	Set a cedar post 3 ft long 4 ins sq. 24 ins in the ground for 1/4 sec. cor. marked 1/4 S. on N. face
	from which.

Chain	
	Cedar 14 ins diam bears S 82¼° E 75 lks dist marked 14 S. B.T.
	Cedar 12 ins diam bears S. 65½° W. 40 lks dist marked 14 S B.T.
80.00	Set a sandstone 18 x 12 x 6 ins 13 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 Cedar 8 ins diam bears N 86° E. 251 lks dist. marked T.38 S. R.2 W. S.13 B.T. Cedar 6 ins diam bears S 59° E 177 lks dist. marked T.38 S. R.2 W. S.24 B.T. Cedar 10 ins diam bears S. 71⅔° W. 223 lks dist. marked T.38 S. R.2 W. S.23 B.T. Cedar 9 ins diam bears N. 73⅔° W. 206 lks dist. marked T.38 S. R.2 W. S.14 B.T. Land mountainous and broken Soil stony 14 ch rate Timber pine and cedar. Mountainous land and dense undergrowth on 80.00 chs
	N 89° 55' E on a random line bet secs 13 and 24
40.00	Set temp 1/4 sec. cor.
80.24	Intersect E bdy of Tp 9 lks S. of cor of secs 13, 18, 19 and 24 Theyes Drum. S 89° 51' W. on a true line bet secs 13 and 24 Rive broken land through Deadwood timber and dense undergrowth. descending.
40.12	Set a sandstone 12 x 12 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Cedar 10 ins diam bears N 34½° E 159 lks dist marked 1/4 S. B.T.

Subdivisions of T.38 S. R.2 W. continued

Chains	Pecan 10 in diam bears S.56° E 24 lks dist, marked 1/4 S.B.T.
80.24	The cor of secs 13, 14, 23 and 24
	Land broken and mountainous
	Soil stony 1st rate
	Timber pine and cedar.
	Dense undergrowth on 80.24 chs.
	N 60° W [illegible] secs 13 and 14
	Over rolling land through dense undergrowth
55.00	Dry wash drs. N.
14.00	Dry wash drs N. ascend
40.00	Set a limestone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
70.00	Enter dense timber.
80.00	Set a limestone 18 x 12 x 4 ins 13 ins in the ground for cor. of secs 11, 12, 13 and 14 marked south 4 notches on S. and 1 notch on E edges, from which
	Pecan 24 ins diam bears N 41⅔° E 98 lks dist marked T.38 S. R.2 W. S.12 B.T.
	Pecan 8 ins diam bears S.58¼° E. 60 lks dist marked T.38 S. R.2 W. S.13 B.T.
	Pecan 16 ins diam bears S.69½° E 22 lks dist marked T.38 S. R.2 W. S.13 B.T.
	Pecan 12 ins diam. bears N.68¼° W. 153 lks dist marked T.38 S. R.2 W. S.11 B.T.
	Land rolling
	Soil sandy 2nd rate
	Timber pine and cedar
	Heavily timbered or dense undergrowth on 80.00 chs.

Subdivisions of T38 S. R2 W. continued.

Chains.	
	N 89°57' E on a random line beh secs 12 and 13.
40.00	Beh temp 1/4 sec. cor.
80.14	Intersect E. bdy of Tp 6 lks. N of cor of secs 7, 12, 13 and 18. Thence Drum S 89°54' W. on a true line beh secs 12 and 13. Over rolling land through dense undergrowth.
40.07	Beh set a cedar post 3 ft long 4 ins sq with marked stone 24 ins in the ground for 1/4 sec cor. marked 1/4 S. on N. face: dug pits 18 x 18 x 12 ins E. and N. of post. 3 ft dist. and raised a mound of earth - 3½ ft base 1½ ft high N. of cor.
48.08	Ascend bears N & S
55.00	Ascend abruptly over steep mountain
75.00	Descend abruptly through timber.
80.14	The cor. of secs 11, 12, 13 and 14 Land rolling and mountainous Soil sandy and stony 2nd and 4th rate Timber pine and cedar Mountainous land or dense undergrowth on 80.14 Chs. May 22, 1897

May 24: At 8h 55m a.m. l. m. t Took off 37°31' N on the lat. arc: 20°54' N. on the decl. arc: and determined a true meridian with the solar at the cor of secs 11, 12, 13 and 14

Thence Drum N 0°01' W. beh secs 11 and 12 Over Mountainous land

Subdivision of T. 30 S. R. 7 W. continued.

Cor. through dense undergrowth and timber.

2000 Foot of perpendicular cliff. Then run on offset line as follows
West 2.00 chs.
North 10.22 chs.
East 2.00 chs. to a point on true line bet. secs 11 and 12.

4000 Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground for 1/4 sec. cor. mark 1/4 on N. face, and raise a mound of stone 2½ ft base 2 ft high N. of cor. pits unpracticable. Cor. rolling land.

8000 Set a sandstone 12 x 10 x 6 ins 8 ins. in the ground for cor. of secs 1, 2 11 and 12. marked with 5 notches on S. and 1 notch on E. edge. Dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist. and raise a mound of earth 4 ft base 2 ft high N. of cor.
Road mountainous and rolling. Soil sandy and strong loam and 4 ft rock.
Timber, very scattering oak and pine.
Mountainous land or dense undergrowth on 80.00 chs.

N. 89°34' E. on a random course line
[illegible] secs 1 and 12.

1000 Set temp 1/4 sec. cor.

[illegible] Intersect E. bdy of Tp. at cor of secs 1, 6, 7 and 12. Thence Drew. S. 89°34' W. on a true line bet secs 1 and 12.
Gen. rolling land through dense undergrowth.

2000 Set a sandstone 14 x 12 x 8 ins. 9 ins. in

Subdivision of T. 38 S. R. 2 W. continued

Chain	The ground for my cor. marked M on N face; dig pits 14 x 14 x 12 in. E and W. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
8.00	The cor. of secs 2, 11 and 12. Land rolling, soil sandy and rate No timber. Drove undergrowth on 80.00 chs.
	N 0°01' W on a random line bet secs 1 and 2.
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N. bdy of Tp. 18 lks E of cor of secs. 1, 2, 35 and 36 Then be Bran S 0°09' E on a true line bet secs 1 and 2. Over rolling land through heavy timber.
35.00	Edge of cliffs heavy timber Set a sandstone 12 x 8 x 4 ins 8 ins in the ground for witness point marked N. P. on N. face dig pits 18 x 18 x 12 in. N and S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor. Descend abruptly heavy timber
40.10	Cor. not set as it falls on cliff
44.00	Back of cliffs Set a sandstone 14 x 12 x 3 ins 9 ins in the ground for witness cor. to 1/4 sec. cor. marked N. C. 1/4 on N. face from which a Cedar 8 in. dia. bears S. 87° E. 86 lks dist. marked N. C. 1/4 S. B. T. Cedar 8 in. dia. bears N 82° W. 48 lks dist. marked N. C. 1/4 S. B. T.
80.10	The cor of secs 1, 2, 11 and 12. Land rolling and mountainous. Soil sandy and stony Timber

Chains	
	4th rate Timber pine and cedar. Mountainous land, heavily timbered or dense undergrowth on 80.10 chs.
	May 25: At 8h 00m a.m. l.m.t. Took of 37°28' N on the lat. arc: 21°05½' N. on the decl. arc: and determined a true meridian with the solar at the cor of secs 2, 3, 34 & 35 on S.Bg of Tp which took heretofore. Thence Drew. N 0°01' W. between secs 34 and 35 Over mountainous land through heavy timber.
4.00	Descends.
36.00	Gulch dis N. ascends.
40.00	Set a sandstone 24 x 10 x 6 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. from which Cedar 20 ins diam bears N. 75½° E 28 lks dist marked 1/4 S. B.T. Pine 18 ins diam bears S. 80° W. 136 lks dist. marked 1/4 S. B.T. Descends gradually
80.00	Set a sandstone 22 x 10 x 6 ins 16 ins in the ground for cor of secs. 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches on Eedges from which Cedar 10 ins diam bears N 81½° E 60 lks dist marked T.38.S. R.2.W. S.26 B.T. Cedar 11 ins diam bears S 48⅔° E 75 lks dist. marked T.38.S. R.2.W. S.35 B.T. Cedar 8 ins diam bears S. 63⅔° W. 11 lks dist marked T.38.S. R.2.W. S.34 B.T. Cedar 6 ins diam bears N. 82⅔° W. 245 lks dist. marked T.38.S. R.2.W. S.27 B.T.

Subdivisions of T. 35 N. R. 22 W. continued

Chains	
	Land mountainous and rolling. Soil sandy and slaty loam and white-rock. Timber pine and cedar. Mountainous or heavily timbered and dense undergrowth of spoches.
	East on a random line bet secs 26 and 35
40.00	Set temp 1/4 sec. cor.
80.06	Intersect North S. line at the cor. of secs. 25, 26, 35 and 36
	Then se. Dran
	North over rolling land through dense undergrowth and timber.
	Descending over broken land.
30.00	Pass dry N. W. ascend
40.03	Set a sandstone 12 x 10 x 6 in. 8 in. in the ground for 1/4 sec cor. marked 1/4 on N. face, from which
	Pecan 30 in diam bears N 81½ E 30 links dist. marked 1/4 S. B. T.
	Pecan 7 in diam bears S. 16 E. 18 links dist. marked 1/4 S. B. T.
52.87	Descend into canon 50 ft deep.
55.00	Bottom of canon dry N. W. ascend
58.70	Pass canon, rolling
80.06	The cor. of secs. 26, 27, 34 and 35. Land mountainous and rolling. Soil slaty, white rock. Timber pine and cedar. Mountainous land heavily timbered & dense undergrowth on 80.06 chs.
	North-west. bet secs 26 and 27 Over broken mountainous land. Descend gradually through scattering timber & dense brush.

Subdivisions of T. 38 S. R. 2 W. continued

Chains

30.00 Enter dense timber

40.00 Set a limestone 16 x 8 x 4 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which

Open 8 ins drain bears S. 1° E. 52 lks dist. marked 1/4 S. B.T.

Open 12 ins drain bears S. 59° W. 21 lks dist. marked 1/4 S. B.T.

Broken descend

61.00 Dry wash bears N. W. ascend

64.00 Foot of perpendicular bluff 70 ft high; enter scattering timber.

64.50 Top of bluff. bears NE. and N. W.

74.00 Descend abruptly.

79.00 Dry wash at foot of bluff. ascend

80.00 Set a limestone 16 x 12 x 10 ins 12 ins in the ground for cor. of secs 22, 23, 26 and 27. marked with 2 notches on S and E edges; dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist and raise a mound of sand 4 ft base 3 ft high N. of cor.

Land mountainous.

Soil stony with rate

Timber pine and cedar.

Mountainous land. Heavily timbered or dense undergrowth on 80.00 chs.

Set on a mountainous line bet. secs. 23 and 26.

[illegible] set temp meander cor.

Intersect present S. line at cor. of secs 22, 23, 26 and 27.

Thence on present

West on a true line bet secs 23 and 26

Cross timber mountainous land

Subdivisions of T38S. R.2.W. continued.

Chains.	
	through heavy timber descending
39.50	Dry wash dis. N. W. ascend
40.00	Deb a sandstone 12×10×6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face. from which
	Cedar 6 in diam bears N 6½° E. 27 lks dist. marked 1/4 S. B.T.
	Cedar 20 ins diam bears S. 75° W. 20 lks dist. marked 1/4 S. B.T.
43.10	Top of ridge 50 ft high descend bs N 55
46.20	Dry wash dis N. W. ascend.
47.00	over rolling land
57.00	Edge of bluff. descend abruptly.
59.00	Dry wash dis N. ascend
62.00	Top of slope
67.00	Descend. abruptly over bluff.
67.50	Foot of bluff along bottom of small canon Dro Westerly
80.00	The cor of sec s. 22, 23, 26 and 27.
	Land mountainous and broken.
	Soil stony 4th rate
	Timber pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs
	May 25: At this cor Decl of 21°06' N. on the d. s. ar: and at 0h00m l. m. t observed the sun on the meridian, the resulting lat. is 37°30' N.
	N 0°01' W. bet secs 22 and 23.
	Over mountainous land through scattering timber. ascend
2.50	Foot of bluff 50 ft high bears E & W. ascend abruptly
4.45	Top of bluff. over broken land
24.26	Edge of perpendicular bluff 100 ft high descend abruptly. bears E & W
24.64	Bottom of dry wash dis N.

Subdivisions of T.38 S. R.2 W. continued

Chains

over rolling land through dense
underground & standing
11.00 Set a candelone 24x6x6 in. 18 in. in
the ground for 1/4 sec. cor. marked
1/4 on N. face & dig pits 18x18x12
in. N. and S. of stone 3 ft. deep
and raise a mound of earth
3½ ft. base 1½ ft. high N. of cor.
11.00 Enter broken land
80.00 Set a candelone 13x10x8 in. 8 in.
in the ground, for cor. of secs.
11, 15, 22 and 23, marked with
3 notches on S. and 2 notches
on E. edge from wh. L.
Cedar Swindam bears N 15½° E. 10 links dist.
marked T.38 S. R.2 W. S.14 B.T.
Cedar Swindam bears S 55½° E 28 links
marked T.38 S. R.2 W. S.23 B.T.
Cedar Swindam bears S 16½° W. 41 links dist.
marked T.38 S. R.2 W. S.22 B.T.
Cedar Swindam bears N 72½° W. 35 links
marked T.38 S. R.2 W. S.15 B.T.
Land mountainous and rolling
Soil sandy and stony in places
Timber pine and cedar.
Mountainous land or dense
underground on 80.00 chs.

East on a random line bet.
secs. 11 and 23.
11.00 Set temp. 1/4 sec. cor.
79.00 Intersect N. and S. line to blk S.
of sec. of Secs 13, 14, 23 and 24
This sec. cor.
Set 1/4 on a true line bet.
secs. 11 and 23
Rolling land through dense
underground.
29.00 Log road bears S. W.
39.00 Log road bears S.

Subdivisions of T38S. R. 2. W. continued.

Chain	
39.95	Set a limestone 12×10×8 ins 8 ins in the ground for 14 sec. cor. marked 14 on N. face; dig pits 18×18×12 ins E and N. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
	Ascend over rolling land
79.90	The cor of secs 14, 15, 22 and 23.
	Land rolling
	Soil sandy loam and rate
	Timber very scattering pine and cedars.
	Dense undergrowth on 79.90 chs
	N. 0° 01' W. bet secs 14 and 15
	Ascend rolling land through dense timber, descend
12.00	Leave dense timber, through dense undergrowth —
39.50	Road bro E and W. ascend
40.00	Set a limestone 12×10×6 ins 8 ins in the ground for 14 sec. cor. marked 14 on N. face; from which
	A red 6 ins diam bears N 45½° E 175 lks dist marked 14 S. B.S.
	A cedar 8 ins diam bears N 41° W. 21 lks dist. marked 14 S. B.S.
52.00	Top ridge ascend bro E and W
70.00	Dry wash bro W.
80.00	Set a sandstone 12×10×6 ins 8 ins in the ground for cor of secs. 10, 11, 14 and 15 marked with 4 notches on S. and 2 notches on E edges from which
	A cedar 19 ins diam bears N 20° E 39 lks dist. marked T38S. R2W. S11, B.S.

Subdivisions of T38 S. R2 W. - Continued.

Chains	
	Pine 7 lns diam bears S.40½° E 32 lks dist. marked T38 S R2 W S14 B.T.
	Pine 16 lns diam bears S.49½° W. 31 lks dist. marked T38 S R2 W S15 B.T.
	Cedar 9 lns diam bears N85° W. 94 lks dist. marked T38 S R2 W S10 B.T.
	Land rolling
	Soil sandy 2nd rate
	Timber pine and cedar
	Heavily timbered or dense undergrowth on 80.00 chs.
	N89°56' E. on a random line bet secs 11 and 14.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 10 lks N. of cor of secs. 11, 12, 13 and 14
	Then S. 9 min
	West on a true line bet secs 11 and 14.
	Over rolling land through dense undergrowth.
40.00	Set a sandstone 12x12x4 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18x18x12 ins E and N. of stone 3 ft. dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
	Ascend butte 100 ft high bears N.W.S
70.00	Descend
80.00	The cor of secs 10, 11, 14 and 15.
	Land rolling and mountainous
	Soil sandy and clayey 2nd and 4th rate.
	No timber.
	Mountainous timbered or dense undergrowth on 80.00 chs.
	May 25, 1907

Chains.	
	N0°01'W bet secs 10 and 11
	Over mountainous land
	ascend through dense timber.
20.00	Descend bears N6°+5W
40.00	Set a sandstone 16×10×8 ins 12 ins
	in the ground for 1/4 sec. cor.
	marked 1/4 on N. face. from
	which
	Open 10 ins diam bears N79½°E 119 lks dist.
	marked 1/4 S.B.T.
	Open 12 ins diam bears S30° W. 82 lks dist.
	marked 1/4 S.B.T.
	over broken land
60.00	leave broken land and dense
	timber.
75.92	Foot of cliffs. To insure the
	permanency of the cor. at this
	point I raise a sandstone
	36×30×18 ins for witness cor to
	cor of secs 2, 3, 10 and 11. marked
	with 5 notches on S and 2 notches
	on E edges with N.C. on N.E face
	from which
	Cedar 20 ins diam bears S79°E. 36 lks dist.
	marked N.C. T38 S. R2 W. S11. B.T.
	Cedar 10 ins diam bears S7°W 60 lks dist.
	marked N.C. T38 S. R2 W. S10. B.T.
	Cedar 8 ins diam bears S58° W. 128 lks dist
	marked N.C. T38 S. R2 W. S10. B.T.
	No other accessories to cor prac-
	ticable.
	Ascend abruptly over sandstone
	ledges
80.00	Set a sandstone 12×8×6 ins 8 ins
	in the ground for cor of secs
	2, 3, 10 and 11 marked with
	5 notches on S and 2 notches on
	E edges. and raise a mound of
	stone 2 ft base 1½ ft high W of
	cor. pits impracticable
	Cor stands on very steep ground.

Description of T31S R2W Continued

Chains	
	Land mountainous and rolling
	Soil stony with rock
	Timber pine and oak
	Mountainous land & dense
	undergrowth on 8000 chs.

May 27. At 9h 00m a.m. l.m.t.
Took ☉ 37°32' on the lat. arc;
21°26' N on the decl. arc; and
determined a true meridian
with the solar at the cor. of secs
2, 3, 10 and 11. Then Drew
East on a random line
bet. secs 2 and 11.

40.00	Set temp. 1/4 sec. cor.
80.06	Intersect N. and S. line 6 chs S.
	of cor. of secs 1, 2, 11 and 12
	Then we Drew
	S 89°57' W on a true line bet
	secs 2 and 11.
	Our rolling land through
	rolling timber and dense undergrowth
	Ascend gradually
10.00	Ascend more abruptly
14.00	Top of ridge 50 ft high bn N and S.
22.00	Descend abruptly
25.00	Course rolling land
40.00	Set a sandstone 12 x 12 x 6 in 8 ins in
	the ground for 1/4 sec. cor. marked
	1/4 on N face; dig pits 18 x 18 x 12 ins
	E and W. of stone 3 ft deep and
	made a mound of earth 3½ ft
	base 1½ ft. high N. of cor.
41.00	Ascend over broken ledges of
	sandstone
50.06	The cor. of secs 2, 3, 10 and 11.
	Land mountainous and rolling
	Soil sandy and stony with rock
	Timber pine and oak.

Chains.	
	Mountainous land or dense undergrowth on 80.06 chs.
	N 0°01' W on a random line between secs 2 and 3.
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N bdy of Tp. 10 lks E of cor of secs 2, 3, 34 and 35
	Thence Drum.
	S 0°05' E on a true line between secs 2 and 3.
	Over very broken land descending from plateau.
40.10	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: and raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
80.10	The cor of secs 2, 3, 10 and 11
	Land mountainous and broken
	Soil stony: 4th-rate
	Timber very scattering, pine and cedar.
	Mountainous land on 80.10 chs
	May 27 1897.
	May 28: At 8 h 00 m. a.m. l.m.t. Sun's bdy of 37°28' N on the lab arc: 21°35' N on the decl. arc: and determined a true meridian at the cor. of secs 34, 33 and 3 on E. Bdy of Tp
	Thence Drum
	N 0°02' W bet secs 33 and 34
	Over rolling land through dense undergrowth - descending
40.00	Set a sandstone 16 x 8 x 6 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pits 18 x 18 x 12 ins

Chains	
	N. and S. of stone 3 ft disk and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
80.00	Set a sandstone 12 x 10 x 8 ins. 8 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
	Cedar 9 ins diam bears N 2½° E 113 lks dist. marked T.38.S.R.2.W. S.27. B.T.
	Cedar 9 ins diam bears N 45° W. 331 lks dist. marked T.38.S.R.2.W. S.28. B.T.
	No other trees within limits
	Dig pits 18 x 18 x 12 ins in each sec. 5½ ft dist and raise a mound of earth 2 ft high 4 ft base W. of cor.
	Land rolling
	Soil sandy loam 1 2nd rate
	Timber very scattering cedars and pine.
	Descending grade on 80.00 chs.

	Each on a random line bet secs 27 and 34
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N. and S. line 4 lks S. of cor. of secs. 26, 27, 34 and 35
	Thence Drain
	S 89° 58' W. on a true line bet secs 27 and 34
	Through dense timber
	Ascending
35.00	Top of ascent over rolling land lbs No. 5
40.05	Set a sandstone 14 x 10 x 3 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Cedar 9 ins diam bears S. 113 lks dist. marked 1/4 S. B.T.

Subdivisions of T.38 S. R.2 W. continued

Chains	
	Cedar 7 in diam bears N 60° W 94 lks dist. marked 14 S. B.T.
	Descend gradually
52.00	leave dense timber, through dense undergrowth
80.10	The cor of secs 27, 28, 33 and 34
	Land rolling
	Soil sandy 2nd rate
	Timber cedar and fence
	Heavily timbered or dense undergrowth on 80.10 chs.
	N 0°02' W. bet secs 27 and 28.
	Over mountainous land through scattering cedars and dense undergrowth
	Ascend abruptly.
6.00	Top of ridge brs E and W.
	Descend gradually
40.00	Set a cedar post 3 ft long 4 ins sq. with marked stone 24 ins in the ground for 14 sec cor. marked 14 S. on W face: dig pits 18 x 18 x 12 ins N. and S. of post 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
51.00	Descend abruptly into gulch
52.50	Bottom of gulch brs N. W. ascend
54.00	Top. descend
65.00	Leave timber
80.00	Set a sandstone 16 x 8 x 5 ins 12 ins in the ground for cor of secs 21, 22, 27 and 28. marked with 2 notches on S. and 3 notches on E edges from which
	Cedar 8 in diam bears S 30° W. 97 lks dist. marked T.38 S. R.2 W. S.28. B.T.
	Cedar 7 in diam bears N. 42° W. 162 lks dist. marked T.38 S. R.2 W. S.21. B.T.
	No other trees within limits.

Chains	
	dig pits 18 x 18 x 12 ins in each sec 3½ ft disk and raise a mound of earth 4 ft base 2 ft high N & cor. Land rolling and mountainous. Soil sandy and stony: 2nd rate. Timber pine and cedar. Mountainous land or dense undergrowth on 80.00 chs.
	N 89°58' E on a random line bet secs 22 and 27
40.00	Pick lemp 1/4 sec cor.
80.00	Intersect N and S. line at the cor of secs 22, 23, 26 and 27 Thence Drum S 89°58' W on a true line bet secs 22 and 27 Over broken land along bottom of canon dis westerly descending
18.00	Dry wash dis N. W. Ascend broken hill side on S. side of canon
40.00	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18 x 18 x 12 ins E and W. of stone 3 ft disk and raise a mound of earth 3½ ft base 1½ ft high N of cor. over rolling land
55.00	Dry wash dis N. W.
80.00	The cor of secs 21, 22, 27 and 28 Land mountainous and rolling. Soil sandy, loam and rocky: 2nd and 4th rate. No timber. Mountainous land or dense undergrowth on 80.00 chs.

Subdivisions of T.38.S. R.2.W. continued

Chains.	
	North 0°02' W. bet. secs. 21 and 22.
	Over rolling land through dense
	undergrowth.
	gradually descending. 2 chs. wide to S.W.
20.00	Opening brought at foot of cliffs.
	access abruptly.
	A corrall and opening 35 chs
	East of this point.
	access abruptly over cliffs.
22.00	Set a limestone 12×10×10 ins 8 ins
	in the ground for 1/4 sec. cor.
	marked 1/4 on W. face from which
	Pecan 8 ins diam bears S.69° E. 17 lks dist.
	marked W.C.B.S.T.
	Cedar 12 ins diam bears S.69° W. 16 lks dist.
	marked W.C.B.S.
45.00	Top of ridge. to East W. drains
	and bottom hills and hollows
70.00	Drains into gulch to S.W.
78.00	Beyond the N. access.
80.00	Set a limestone 12×10×10 ins 8 ins
	in the ground for cor. of secs.
	15, 16, 21 and 22. marked
	38 S on N.E.
	2 Nicks S.E. faces and 3 notches
	on East & edges. from which
	Pine 12 ins diam bears N.12° E. 18 lks dist.
	marked T.38.S. R.2.W. C.B.S.
	Pecan 8 ins diam bears S.N.E. 15 lks dist.
	marked T.38.S. R.2.W. C.22 B.S.
	Cedar 8 ins diam bears S.59° W. 13 lks dist.
	marked T.38.S. R.2.W. C.21 B.S.
	Opens 10 ins diam bears N.30° W. 25 lks dist
	marked T.38.S. R.2.W. C.16 B.S.
	Land mountainous
	Rock strong 4 ch. rate
	Timber scattering pine and
	cedar
	Mountainous land and
	dense undergrowth on 80.00 chs

Continuation of Bid R.R. entering

Rem. N° 86 meandered line left
sec 15 and 22.
0.00 Pick lens. 42 00 cm
5.00 Intersect Mail d. line & Sta N.
of sec of secs 14, 15, 22 and 23.
Thence Down
Mail on a true line left secs
15 and 22
Over rolling land through
scattering timber and dense
undergrowth.
6.00 Pass Sta Mail d
10.00 Pick an darpent 3 ft long min 2 g
21 ins in the ground for 41 00.
cor. marked 41 B on N face:
from which
Open burr oak bears S 62° E. 82 links
marked 41 B.T.
Open white oak bears N 33° W. 1 link dist
marked 41 B.B.
over broken land
8.00 The cor of secs 15, 16, 21 and 22
Land rolling and broken
Soil sandy and loamy 1st
and 4th rate
Timber pine and cedar
Dense undergrowth on south

Magnetic at this cor Decl
off 21° 36' N. on the dist. and ang
the 2 bearings to chainman the
cor on the meandered. The
meandering bal. is 37° 50' N.

North N bal secs 15 and 16
Over rolling land through
scattering timber and thin
undergrowth
.00 Proceed generally over broken
ridges and hollows.

Subdivisions of T38S. R2W. continued.

Chain	
30.00	Dry wash dis N. ascending gradually
40.00	Set a sandstone 12x10x8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18x18x12 ins N. and S. of stone 3 ft dist. and raised a mound of earth 3½ ft base 1½ ft high N. of cor.
80.00	Set a sandstone 20x14x6 ins 15 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 Cedar 10 ins diam bears N 50° E. 132 lks dist. marked T38S. R2W. S.10. B.T. Cedar 20 ins diam bears S 2° E. 22 lks dist. marked T38S. R2W. S.15. B.T. Cedar 18 ins diam bears S. 76⅔° W 264 lks dist marked T38S. R2W. S.16. B.T. Cedar 10 ins diam bears N 42⅔° W. 84 lks dist. marked T38S. R2W. S.9. B.T. Land rolling: soil sandy and stony 2nd rate Timber scattering pine & cedar Dense undergrowth on 80.00 chs.
	East on a random line bet secs 10 and 15.
40.00	Set temp 1/4 sec cor.
80.06	Intersect N. and S. line at cor of secs 10, 11, 14 and 15 Thence Down West on a true line bet secs 10 and 15 Over rolling land through scattering timber and dense undergrowth. Descending gradual
12.00	Dry wash dis S.
38.00	Dry wash dis S.
40.03	Set a sandstone 12x12x8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits 18x15x12 ins E and N. of stone 3 ft dist and raise a mound of earth 3½ ft

Subdivision of T38 S R2 W continued

Chain	
	Base 1½ ft high N of cor
80.06	The cor of secs 9, 10, 15 and 16
	Land rolling
	Soil sandy 2nd rate
	Timber cedar and pine
	Dense undergrowth on 80.06 chs
	N 0°02' W bet secs 9 and 10
	Over mountainous land, ascending gradually through scattering cedar and pine
20.00	Ascend abruptly
30.00	Top of slope descend
40.00	Set a sandstone 13 x 8 x 4 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on N face, dig pits 18 x 18 x 12 ins N and S of stone and raise a mound of earth 3½ ft base 1½ ft high N of cor.
54.00	Foot of descent, as the 1/4 200 cor. falls on steep hillside at this point set a gypsum rock 12 x 12 x 4 ins 8 ins in the ground for witness 1/4 sec. cor. marked W.C. 1/4 on W face from which
	Cedar 15 ins diam bears S 81¾° E 27 lks dist. marked W.C. 1/4 S. B.T.
	Cedar 12 ins diam bears N 67½° W 28 lks dist. marked W.C. 1/4 S. B.T.
	Cor. ridge and hollows.
80.00	Set a gypsum rock 16 x 12 x 4 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
	Cedar 24 ins diam bears S 82¾° E 21 lks dist marked T38 S. R2 W. S.10. B.T.
	Cedar 20 ins diam bears S 78¾° W 36 lks dist. marked T38 S. R2 W. S.9. B.T.

Subdivisions of T38 S. R.2. W. continued

Chains.	Cedar 12 ins diam bears N 85° W 79 lks dist. marked T.38 S. R.2 W. S.4. B.T.
	Cedar 6 ins diam bears N.36½° W 110 lks dist. marked T.38 S. R.2 W. S.4. B.T.
	Land mountainous
	Soil stony 4th rate
	Timber scattering pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs.
	East on a random line bet secs. 3 and 10
40.00	Set 1/4 sec. cor.
80.00	Intersect N and S. line at cor of secs 2, 3, 10 and 11
	Thence Trum
	West on a true line bet secs. 3 and 10
	Over mountainous land descending abruptly
23.00	Top of bluff - through dense brush
40.00	Set a sandstone 20 x 12 x 8 ins 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft deep and raise a mound of earth - 3½ ft base 1½ ft high N. of co.
80.00	The cor of secs 3, 4, 9 and 10. Land mountainous and rolling
	Soil sandy and stony! 2nd and 4th rate.
	No timber
	Mountainous land or dense undergrowth on 80.00 chs.
	N 0°02' W on a random line bet secs 3 and 4

Subdivisions of T.38, R.12.W. continued

Chains.	
40.00	Set temp 1/4 sec. cor.
79.95	Deflection N bdy of Tp. 10 lks E of the cor of secs 3, 4, 33 and 34
	Thence S 0°06' E on a true line bet secs 3 and 4
	Over mountainous land through scattering timber and dense undergrowth.
	Descending from plateau
30.00	Descend abruptly
37.00	Foot of cliff 300 ft high.
39.95	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which
	Pecker 10 ins diam bears N 21° E. 68 lks dist. marked 1/4 S. B.T.
	Pyramid 6 ins diam bears N 61° W. 62 lks dist. marked 1/4 S. B.T.
	Over ridges and hollows.
79.95	The cor of secs 3, 4, 9 and 10
	Land mountainous.
	Soil stony: 4th rate
	Timber pine and cedar.
	Mountainous land or dense undergrowth on 79.95 chs.
	May 28 1894.

For notes of the line between 32 & 33 see notes of north bdy of Tp in book J.

May 29: At 8 h 00 m. a.m. l.m.t. I set off 37° 29' N on the lat arc: 21° 44' W on the dec arc: and determined a true meridian with the sun at the cor of secs 28, 29, 32 and 33.

Thence Drew.

East on a random line bet secs 28 and 33 Over mountainous land thickly covering timber and dense undergrowth

Subdivisions of T.38.S. R.2.W. continued

Chains	
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S line at the cor of secs 27, 28, 33 and 34
	Thence Draw
	West on a true line bet secs 28 and 33.
	Over rolling land through dense undergrowth, ascending
20.00	Top of slope N&S dec end water timber
39.00	Descend into gulch dir N
40.00	Set a sandstone 12 x 12 x 4 ins, 8 ins in the ground for 1/4 sec cor marked 1/4 on N face from which
	Pine 10 ins diam bears N42½°E 66 lks dist marked 1/4 S.B.T.
	Cedar 6 ins diam bears S15¾° W 48 lks dist. marked 1/4 S.B.T.
42.00	Bottom of gulch dir N. ascend
50.00	Top of ascent N&S rolling land
54.00	Ascend
62.00	Top of ascent N&S rolling land
73.00	Descend
80.00	The cor of secs 28, 29, 32 and 33
	Land mountainous and rolling
	Soil sandy loam and stony; 2nd and 4th rate.
	Timber pine and cedar
	Mountainous land or dense undergrowth on 80.00 chs.

	N 0°03' W bet secs 28 and 29
	Over mountainous land through heavy timber and dense undergrowth: descend
3.00	Foot of descent, ascend
13.00	Top of ridge bears N.E. and S.W.
	Descend abruptly into canon
34.00	Bottom of canon bears S 21° W.
	Ascend abruptly.

Subdivisions of T38S. R2 W-continued.

Chains	
40.00	Set a sandstone 13×10×4 in 9 in in the ground for 1/4 sec cor marked 1/4 on W. face and raised a mound of stone 2 ft base 1½ ft high W of cor, pit impracticable.
60.00	Top of ridge brs S30°W and N30°E
	Set a sandstone 12×8×6 in 8 in in the ground for meander cor to 1/4 sec cor. marked M.C. 1/4 on W face from which
	Pine 6 in drain bears S25°E 77 lks dist. marked M.C. 1/4 S.B.T.
	Pine 6 in drain bears N80½°W 77 lks dist. marked M.C. 1/4 S.B.T.
	Descend abruptly.
80.00	Set a sandstone 16×8×6 in 12 in in the ground for cor of secs 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E edges and raised a mound of stone 2½ ft base 2 ft high W. of cor.
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs.

	Esh on a random line bet secs 21 and 28
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S. line at the cor of secs 21, 22, 27 and 28.
	Thence Down
	Nesh on a true line bet secs 21 and 28
	Over mountainous land through dense undergrowth.
	Descend
1.00	gulch drs N. ascend

Subdivisions of T.38 S. R.2 W. continued

Chains	
14.00	Across gulch over rolling land
31.00	Descend abruptly into canon
39.50	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for witness cor. to 1/4 sec cor. marked W.C. 1/4 on N face. and raise a mound of stone 3 ft base 2 ft high N of cor. pits impracticable.
	Ascend abruptly.
40.00	Cor. falls on steep slope and can not be retained in place.
50.00	Foot of perpendicular cliffs ascend abruptly.
53.66	Top of cliff 200 ft high Bear 10 x 8 Euler timber
	Over broken land
72.00	Descend abruptly into Paria canon, leave timber.
80.00	The cor of secs 20, 21, 28 and 29.
	Cor stands 200 feet below top of ridge.
	Land mountainous and rolling.
	Dist along 1/4 ch rate
	Timber pine and cedar.
	Mountainous land or dense undergrowth on 80.00 chs.
	N. 03 W bet secs 20 and 21
	Over broken mountainous land
	Descending.
40.00	Set a sandstone 16 x 10 x 8 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins N and S. of stone 3 ft dist and raise a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
59.00	Cross bend of Paria Creek 20 ft wide. Bear S 57
	ascend gradually
68.00	Set a sandstone 20 x 10 x 8 ins 15 ins in the ground for witness cor.

Chain

Set cor of secs 16, 17, 20 and 21, marked W.P. on N.E. face with 3 notches on S. and 4 notches on Edges. and raise a mound of stone 2½ ft base 2 ft high W. of cor. pits impracticable.

Ascend over cliff 100 feet high.

80.00 Set sandstone 12×10×5 ins, 8 ins in the ground for cor of secs. 16, 17, 20 and 21 marked with 3 notches on S and 4 notches on Edges. and raise a mound of stone 2 ft base 1½ ft high W of cor. Land mountainous and broken Soil sandy loam and rocky 2nd and 4th rate.

Timber very scattering pine and cedar.

Mountainous land or dense undergrowth on 80.00 Chs.

Each on a random line bet secs 16 and 21.

40.00 Set temp 1/4 sec. cor.

80.00 Intersect N and S. line at cor. of secs 15, 16, 21 and 22

Thence Drum West on a true line bet secs 16 and 21

Over very broken land through scattering timber and dense undergrowth.

22.25 Descend into gulch 100 ft deep.

25.00 Bottom of gulch dis N, ascend

[illegible] Across gulch ascend gradually

35.00 Top of ridge bro N. and S. descend

40.00 Set sandstone 16×10×8 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. and raise a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.

Subdivisions of T.38 S. R.2 W. continued

Chains	
43.00	Bottom of gulch 10 ft deep trs N. W. ascend
46.27	Top of ridge trs N. and S. descend
51.00	Dry wash trs S. W. ascend gradually
58.00	Ascend abruptly
80.00	The cor. of secs 16, 17, 20 and 21 Land mountainous. Soil stony 4th rate Timber very scattering pine and cedar Mountainous land and dense undergrowth on 80.00 chs.
	May 29: At this cor. Dech off 21°45' W. on the decl. are and at 0 h. 0 m. 0 s. observed the sun on the meridian, the resulting lat is 37°35' N.
	N. 0°05' W. bet secs 16 and 17. Open mountainous land through scattering timber and dense undergrowth, descending
40.00	Set a sandstone 14 x 9 x 5 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A cedar 10 ins diam bears N. 21½° E. 130 lks dist marked 1/4 S. B. T.
	A cedar 12 ins diam bears S. 65° W. 70 lks dist. marked 1/4 S. B. T.
55.00	Dry wash trs S. W. ascend and leave timber
80.00	Set a cedar post 3 ft long 4 ins sq. with quart of charcoal 24 ins in the ground for cor. of secs. 8, 9, 16 and 17, marked T 38 S. R. 9. on N. E.

Subdivisions of T.38.S. R.2 W. continued

Chains	R.2.W. S.16 on S.E. S.17 on S.W. and S.8. on N.W. faces with 4 notches on S. and E. edges; dug pits 18x18x12 ins in each sec. 5½ ft dist. and raised a mound of earth 4 ft base 2 ft high N. of cor. Land rolling and mountainous Soil sandy loam and stony; 2nd and 4th rate Timber pine and cedar Mountainous land and dense undergrowth on 80.00 chs.
	East on a random line between secs 9 and 16.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 25 lks West of secs 9, 10, 15 and 16 Thence Down S 89°49' W on a true line between secs 9 and 16 ascending through scattering timber and dense undergrowth
40.00	Set a sandstone 12x8x6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, from which Cedar quincunx bears N.78°E. 105 lks dist. marked 1/4 S.B.T. Cedar quincunx bears S.26½°E 87 lks dist. marked 1/4 S.B.T.
[illegible]	Top of ridge bears N. and S. descending
[illegible]	Dry wash bears S.
[illegible]	The cor of secs 8, 9, 16 and 17 Land rolling Soil sandy and stony 2nd and 4th rate Timber pine and cedar Dense undergrowth on 80.00 chs

Subdivisions of T.38, R.2, W. continued

Chains.	
	N 0°03' W bet secs 8 and 9
	Over rolling land thinly scattering timber and dense undergrowth - gradually ascending
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face, from which
	Cedar 12 ins diam bears S 87° E 87 lks dist. marked 1/4 S. B.T.
	Cedar 14 ins diam bears N 57° W 36 lks dist. marked 1/4 S. B.T.
	Enter dense timber and broken lands
80.00	Set a sandstone 14 x 12 x 3 ins 10 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
	Cedar 12 ins diam bears N 52 1/2° E 44 lks dist. marked T.38, R.2, W. S.4, B.T.
	Cedar 10 ins diam bears S 23° 15' E 43 lks dist. marked T.38, R.2 W. S.9, B.T.
	Cedar 8 ins diam bears S 37 1/2° W 86 lks dist. marked T.38, R.2, W. S.8, B.T.
	Cedar 20 ins diam bears N. 77 1/2° W. 24 lks dist. marked T.38, R.2, W. S.5, B.T.
	Land rolling and broken Soil sandy, loam and stony, 2nd and 4th rate
	Timber pine and cedar Heavily timbered of low dense undergrowth - on 80.00 Chs.

	N 89° 49' E on a true com line bet secs 4 and 9
40.00	Set iron p 1/4 sec cor.
80.00	Intersect N and S. line 5 lks W of cor of secs 3, 4, 9 and 10 - Thence Down.

Subdivision of T.38 N. R.2 W. continued

Chains	
	S 89°51' W on a true line bet. secs 4 and 9
	Over mountainous land through scattering timber and dense undergrowth to the second
20.00	Set stone for 1/4 sec. cor.
28.00	Second bearing trees
32.00	Descend
35.00	Second bearing trees
37.00	Descend
40.00	Set a temporary witness corner on the ground for 1/4 sec. cor. month from surface from which
	Cedar witness bear S 87° W. 3 links distant marked W.C. B.T.
	Cedar witness bear N 2½° W. 8 links dist. marked W.C. B.T.
	Second bearing trees
47.50	Descend
51.00	Second bearing trees
55.00	Descend
64.00	Second bearing trees
76.33	Descend
80.00	The cor. of secs 4, 5, 8 and 9.
	Land Mountainous
	Soil stony clay
	Timber pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs.
	N 0°13' W on a random line bet. secs. 4 and 5
40.00	Set temp. 1/4 sec. cor.
80.24	Intersect N bdy. of Tp. 38 N. R. 2 E. of cor. of secs 4, 5, 32 and 33.
	Thence Down
	S 0°06' E on a true line bet. secs 4 and 5
	Over broken land descending

Subdivision of T.38 S. R.2 W. continued

Chains	through dense undergrowth
40.24	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 14 x 12 ins N and S. of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
80.24	The cor of secs 4, 5, 8 and 9. Land broken Soil sandy and rocky; 12 ch and 4 ch rate Timber occasional cedar Dense undergrowth - on 80.24 chs.
	May 29 1897
	To enter the lines of tows 29 & 32 & 30 & 31 see notes of the South Bdy of this Tp in book

May 31 At 8h 00m a.m. set off 37°29' N on the lat. arc; 22°07½' W on the decl. arc; and determined a true meridian with the solar at the cor of secs 29, 30, 31 and 32

Thence Down

N 0°03' W. bet secs 29 and 30

Over mountainous land through scattering timber and dense undergrowth

	Descend
5.50	Bottom of canon dir E. ascend
11.00	Top of ridge, brs E and N. dir ascend
14.00	Bottom of gulch dir E.
20.00	Top of plateau, over rolling land
34.00	Descend abruptly.
40.00	Set a sandstone 13 x 14 x 6 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on N face. and raise a mound of stone 2 ft base 1½ ft high W of cor. pit impracticable.
116.62	Set a sandstone 16 x 12 x 3 ins

Com. 12 rds in the ground for witness
cor. Sec 11 & 12 on marked N.P.
mon. N. 60 links from which
Open Quindecan bears N. 54½° E. 38 links dist.
marked N.P. 11 & 12 B.T.
Cedar 20 rds diam. bears N. 36° W. 13 links dist.
marked N.P. 11 & 12 B.T.
Descend gradually
1100 Descend abruptly
8000 Cor. point falls on edge of
rock, marked a cross on
rock at the exact point
of cor. to sec. 11, 12, 13, 14 with 3 mds. 1 to 5 & 6 of cors. found.
Cedar 15 rds diam. bears N. 75½° E. 92 links dist.
marked T. 38 S. R. 2 W. S. 12 B.T.
Cedar 8 rds diam. bears S. 39° E. 43 links dist.
marked T. 38 S. R. 2 W. S. 12 B.T.
Open 7 rds diam. bears S. 65½° W. 28 links dist.
marked T. 38 S. R. 2 W. S. 31 B.T.
Open 8 rds diam. bears N. 47½° W. 30 links dist.
marked T. 38 S. R. 2 W. S. 19 B.T.
Land mountainous
Soil sandy and stony with rate
timber, pine and cedar.
Mountainous land or dense
undergrowth on 80.00 chs.

East on a random line
bet. secs 20 and 29
1600 Cut drop 14.50 chs.
8000 Intersect Naud Island at the
cor. of secs 20, 21, 28 and 29.
Kinder Drain
Pick up a true line bet. secs
20 and 29 cors
Over mountainous land.
Descend abruptly
1500 Cross creek 20 links dis. R.
Ascend abruptly
4000 Falls on steep mountain side

Chains	Set a sandstone 13 x 10 x 5 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raised a mound of stones 2 ft base 1½ ft high N of cor. Pits impracticable.
48.50	Top of plateau
	Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for meander cor to 1/4 sec. cor. marked M.C. 1/4 on N face from which
	A pine 8 ins diam bears N.18° E. 19 lks dist. marked M.C. 1/4 B.T.
	A cedar 6 ins diam bears S.35° W. 21 lks dist, marked M.C. 1/4 B.T.
	Descend
80.20	The cor of secs 19, 20, 29 and 30
	Land mountainous
	Soil stony 4th rate
	Timber scattering pine and cedar
	Mountainous land and dense undergrowth on 80.20 chs.
	Walk on a random line bet secs 19 and 30
40.00	Set temp 1/4 sec. cor.
78.68	Intersect M. bdy 4 lks S of cor of secs 19, 24, 25 and 30
	Thence Run
	S 89° 58' E on a true line bet secs 19 and 30
	Over rolling land through heavy timber and dense undergrowth, ascend
6.00	Descend gradually
38.68	Set a sandstone 16 x 10 x 5 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which

Subdivisions of T.38 S. R.2 W. continued

Chains	
	Cedar 8 ins. diam. bears N80°E. 17 lks dist. marked 1/4 S.B.T.
	Cedar 10 ins. diam. bears S.22½°E 16 lks dist. marked 1/4 S.B.T.
78.68	The cor. of secs 19, 20, 29 and 30 Land rolling. Soil sandy 1/4th rate Timber pine and cedar. Dense undergrowth or heavily timbered on 78.68 Chs.
	N0°03' W. bet. secs 19 and 20 Over mountainous land through scattering timber and dense undergrowth descending
15.00	Foot of descent, ascend
26.00	Top of ridge brs. E and W.
39.50	Dry wash in bottom of canon brs. S.80°E.
40.00	Set a limestone 12×10×5 ins. 8 ins. in the ground for 1/4 Sec. cor. marked 1/4 on W. face from which
	Cedar 10 ins. diam. bears N29½°E 7 lks dist marked 1/4 S.B.T.
	Cedar 20 ins. diam. bears S72°W. 21 lks dist. marked 1/4 S.B.T.
	Ascend abruptly through dense timber
56.00	Top of plateau brs. E & W
65.00	Land dense timber enter dense undergrowth.
80.00	Set a sandstone 20×8×8 ins. 15 ins in the ground for cor. of secs 17, 18, 19 and 20 marked with 3 notches on S. and 5 notches on E. edges from which
	Pine 8 ins. diam. bears N67⅔°E 92 lks dist. marked T.38 S. R.2 W. S.17 B.T.
	Pine 14 ins. diam. bears S7⅔°E 109 lks dist

Subdivisions of T38S. R2. W. continued

Chains	
	marked T38 S. R2 W. S20 B.T.
	A pine 12 ins diam bears S35⅓° W. 83 lks dist.
	marked T38S. R2. W. S.19. B.T.
	A pine 10 ins diam bears N38⅓° W. 20 lks dist.
	marked T38S. R2. W. S.18. B.T.
	Land mountainous
	Soil sandy and stony: 4th rate
	Timber pine and cedar
	Mountainous land, heavily timbered or dense undergrowth on 80,00 chs.
	May 31. At this cor. I sch off 22°02' N on the sch. arc. and at 0 h 00 m. l. m. t observed the sun on the mer. diam, the resulting lat. is 37°30'
	Esta on a random line bet secs 17 and 20
40,00	Set temp 1/4 sec cor.
80,22	Intersect N and S. line 9 lks N of cor of secs 16, 17, 20 and 21
	Thence I run
	N89°56' W. on a true line bet secs 17 and 20
	Over mountainous land through scattering timber and dense undergrowth;
	descending abruptly.
10,00	Foot of bluff, leave timber
22,00	Pass a creek 20 lks wide dry S.E. ascend bears N 45 E
25,00	Foot of bluff, bears S 45 E
	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for witness cor. to 1/4 sec cor. marked W.C. 1/4 on N face, and raise a mound of stone 2 ft base 1½ ft high
	No for. pits impracticable.

Subdivision of S.35, T. R.2 W. continued

Chain	Ascend abruptly over bluffs
30.00	Top of bluffs, over broken land through rock bearing timber
40.11	Set a sandstone 14x10x4 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N face; dig pits 18x18x12 ins E and W of stone 3 ft dist and raise a mound of earth 3½ ft base 1½ ft high N of cor.
60.00	Ascend abruptly bear N&S
80.22	The cor of secs 17, 18, 19 and 20. Land mountainous and rolling. Soil sandy and stony. 2nd and 4th rate. Timber pine and cedar. Mountainous land or dense underwoods on 80.22 chs.

N 89°58' W on a random line bet. secs 18 and 19

40.00	Set temp 1/4 sec cor.
78.62	Intersect N. bdy of Tp. 10 lks S. of cor of secs 13, 18, 19 and 24. Thence Drain

S 89°54' E on a true line bet. secs 18 and 19.

Over mountainous land, through heavy timber and dense undergrowth, descending over broken land.

30.00	Ascend
38.62	Top of bench bears N&S

Set a sandstone 12x8x6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face. from which

Pine 10 ins diam bears S 20° E 19 lks dist. marked 1/4 S.B.T.

Pine 10 ins diam bears N 54½° W 75 lks dist. marked 1/4 S.B.T.

Subdivisions of T38S. R.2.W. continued

Chains.	
45.60	Descend into canon 50 ft deep
48.75	Bottom of gulch dis S. ascend
55.60	Top of ridge brs. N. and S. descend
60.00	Ascend
75.00	Top of bench bears N+S
78.62	The cor of secs 17, 18, 19 and 20
	Land mountainous and rolling
	Soil stony: 4th rate
	Timber pine and cedar.
	Mountainous land and heavily timbered in dense undergrowth on 78.62 chs.

	N 0°03' W bet secs 17 and 18.
	Over mountainous land through heavy timber and dense undergrowth
	Descend
3.00	Bottom of gulch dis E. ascend
6.75	Top of ridge brs E and W. descend
9.50	Bottom of hollow E ascend
12.00	Ridge brs E and W. descend
17.00	Hollow dis N.E. ascend
22.50	Ridge brs. E. and W. descend
28.00	Hollow dis E. ascend
34.77	Top of ridge. at the 1/4 sec. cor. falls on very steep ground at this point I set a sandstone 12 x 7 x 6 ins 8 ins in the ground for witness cor to the 1/4 sec. cor. marked W.C. 1/4 on W. face from which
	Pine 7 ins diam bears N 55° E 18 lks dist. marked W.C. 1/4 B.T.
	Pine 10 ins diam bears S. 54° W. 80 lks dist. marked W.C. 1/4 B.T.
	Descend into canon
40.00	Set a sandstone 12 x 8 x 6 ins.

Subdivisions of T38 S. R. 2. W. continued

Chains	
	8 lis in the ground for 1/4 sec cor. marked 1/4 on N. face: and raise a mound of stone 2 ft base 1½ ft high W of cor. - pits impracticable
46.00	Bottom of canon 150 ft deep drs E ascend abruptly.
60.00	Top of ridge drs W descend abruptly.
65.00	Bottom of hollow drs E.
75.00	Top of ridge trs E and N. descend abruptly.
80.00	Set a lime stone 15 x 10 x 8 lis 8 lis in the ground for cor. of secs 7, 8, 17 and 18 marked with 4 notches on S. and 5 notches on E edges and raise a mound of stone 2 ft base 1½ ft high W of cor. pits imp. Land mountainous Soil rocky 14 ch rate Timber pine and cedar. Mountainous land, heavily timbered and dense undergrowth on 80.00 chs.
	S. 89°56' E on a random line bet secs 8 and 17
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N and S. line & limits N. of the cor of secs 8, 9, 16 and 17 Thence Run N. 89°54' W on a true line bet secs 8 and 17. Over mountainous land Through dense undergrowth. Ascend abruptly
20.00	Top of sharp ridge trs N and S. 200 feet above cor.
30.00	Gulch drs S. N. ascend abruptly
40.05	Set a sandstone 12 x 8 x 6 lis 8 lis in the ground for 1/4 sec. cor. marked 1/4 on N. face: dig pits.

Subdivisions of S.30.R. 192.W. continued

Chain	18x18x12 ins Cand 21 of Township raise a mound of earth 2½ ft base 1½ ft high Shafer
41.00	Top of sharp ridge descend abruptly, bears N.S
53.50	Foot of steep descent
	Set a limestone 12x8x5 ins sun in the ground for section cor. to Sec. cor. marked N.C. 1/4 on N face from which
	Cedar 10 ins diam bears N.E. 8 lks dist. marked N.C. 1/4 B.T.
	Cedar 12 ins diam bears S.29½ E. 93 lks dist. marked N.C. 1/4 B.T.
	Descend gradually
67.00	Reach creek 18 lks wide bears S.E.
71.00	ascend abruptly
73.00	Top of ridge bears N. and S. 20 ft high
80.10	The cor of secs 7, 8, 17 and 18.
	Land. Mountainous
	Soil sandy and stony, mud and silt rate
	Timber scattering pine and cedar.
	Mountainous land and dense undergrowth on 80.10 chs.
	May 31 1897

	June 1st 1897. At 8 hour a.m. I set Dec. of 37° 31' N on the date and 22° 10' W on the dec. arc and determined a true meridian with the solar at the cor of secs 7, 8, 17 and 18.
	Then we drove
	N 89° 54' W on a random line bet secs 7 and 18.
40.00	Set a temp 1/4 sec. cor.
78.50	Intersect W. bdy of Tp at cor of secs 7, 12, 13 and 18
	Then we drove.

Chains	
	S. 89° 54' E. on a true line bet. secs 7 and 18
	Over mountainous land through scattering timber and dense undergrowth.
	Descending over ridges and hollows.
38.50	Set a sandstone 13 x 8 x 6 ins. quite in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
49.50	Set a cedar post 3 ft long 4 ins sq with marked stone 24 ins in the ground for witness cor to 1/4 sec. cor. marked W.C. 1/4 sec on N. face. from which
	A pine 7 ins diam bears S 40° W. 86 lks dist. marked W.C. 1/4 B.B.T.
	A cedar 10 ins diam bears N 65½° W. 17 lks dist. marked W.C. 1/4 B.B.T.
78.50	The cor of secs 7, 8, 17 and 18.
	Land mountainous
	Soil stony 1/4 ch rate
	Timber scattering pine and cedar.
	Mountainous land and dense undergrowth on 78.50 chs.
	N. 0.03 W. bet secs 7 and 8.
	Over mountainous land
	Ground
10.00	Top of spur slopes E. descending
12.00	Foot of slope with creek bottom and dense undergrowth
18.00	Pass a creek 20 lks under dis S. E. ascend
30.90	Fence brs E and W.
31.00	Road brs E. and W.
40.00	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which

Subdivisions of T. 38 S. R. 2 W. continued

Chains.	
	Cedar 8 in diam bears N 46½° E 104 lks dist, marked ¼ S. B. T.
	Cedar 8 in diam bears S. 38° W. 93 lks dist marked ¼ S. B. T.
	Descended ravine and small bears S 45° W 10 chs. dist.
	ascend bluff over ridge and hollows. through brush and timber
80.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for cor. of secs 5, 6, 7 and 8. marked with 5 notches on S. and E edges. and raise a mound of stone 2 ft base 1½ ft high. Way cor. pits impracticable.
	Land Mountainous and rolling.
	Soil sandy loam and clothing Red and red-rate.
	Timber pine and cedar.
	Mountainous land or dense undergrowth on 80.00 chs.
	S 89° 54' E on a random line bet secs 5 and 8.
40.00	Set temp ¼ sec. cor.
80.00	Intersect N. and S. line 13 lks S. of cor. of secs. 4, 5, 8 and 9.
	Thence Run
	West on a true line bet secs 5 and 8.
	Over mountainous land, ascending through scalloping timber and dense undergrowth —
11.00	Top of ridge bears N and S. over broken land descending.
20.00	Dry wash bears S. ascend abruptly
28.00	Top of plateau. through timber
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for ¼ sec cor.

Subdivisions of T. 35 S. R. 2 W. continued

Chains	
	marked 1/4 on N. face. dig pits 18x18x12 in. East N. of stone 3 ft and raise a mound of earth 3½ ft base 1½ ft high. N. face.
75.00	Descend abruptly.
80.00	The cor. of secs 5, 6, 7 and 8. Land mountainous and rolling. Soil stony 14 ch rate. Timber fine and cedar. Mountainous land or dense undergrowth on 80.00 chs.
	N 89°54' W on a random line bet. secs 6 and 7
40.00	Set temp 1/4 sec cor.
78.41	Intersect W. bdy of Tp 14 lks N. of cor. of secs 1, 6, 7 and 12
	Thence Drun East on a true line bet secs 6 and 7
	Over mountainous land through heavy timber.
17.40	Descend abruptly
28.00	Foot of slope 250 ft high bare timber
38.41	Set a sandstone 12x8x8 ins 8 ins in the ground for 1/4 sec. cor. marked with 1/4 on N. side. dig pits 18x18x12 ins East N. of stone 3 ft distant and raise a mound of earth 3½ ft base 1½ ft high N. of cor.
48.50	Road brs N.W. and S.E
50.50	Pond creek 15 lks wide brs S.
52.00	Ascend abruptly through timber
62.50	Top of ridge brs N. and S.
64.00	Ascend brs N. & S.
68.00	Descend
71.50	Bottom of gulch brs S. ascend
78.41	The cor. of secs 5, 6, 7 and 8. Land mountainous and rolling.

Subdivisions of T.3.S.R.2.W continued

Chain.	Soil sandy loam and stony 2nd and 4th rate. Timber pine and cedar. Mountainous land and dense undergrowth: on 78.41 chs.
	Dist being impracticable to run north bet secs 5 and 6 on account of perpendicular cliffs along the line, therefore from a point 18.00 chs West of the cor of secs 5, 6, 7 and 8 I run N 0°03' W on an offset line 40.00 chs along foot of bluff. Thence East along bottom of gulch which drs West 5.30 chs to a point at foot of steep ascent 12.70 chs W. of the 1/4 sec. cor bet secs 5 and 6.
40.00	Set a temp witness cor for 1/4 sec cor. Thence I continue N 0°03' W on offset line 18.00 chs W of true line Bet secs 5 and 6.
80.00	Intersect N bdy of Tp 18.00 chs W of the cor of secs 5, 6, 31 and 32. Thence I return on offset line and establish temp witness cor to 1/4 sec cor as permanent witness cor to 1/4 sec cor Bet secs 5 and 6 which is 12.70 chs W. of true cor point and is a sandstone 12 x 10 x 8 in 8 in in the ground marked WC 1/4 on W face from which A cedar 12 in diam bears N 71½ E 18 lks dist marked WC 1/4 S B.T. A cedar 12 in diam brs S 8 2/3 W 49 lks dist marked WC 1/4 S B.T.
80.00	To the point 18.00 chs W of cor to secs 5, 6, 7 and 8. Land mountainous. Soil stony 4th rate.

timber scattering pine and cedar.
Mountainous land and dense under-growth on 80.00 chs.

June 1st 1897

General Description.

This township is mountainous and the soil sandy and stony. It is suitable for grazing and is extensively used for this purpose.

A narrow strip of land along the Paria River in the North western part of the township can be cultivated under irrigation but at present none of it is under cultivation except in the center and Eastern portion of sec 6 where Myron Proctor has some plowed land.

The plateau lands are covered with dense scrub pine and cedar.

The bottom lands are covered with dense undergrowth of artemisia grease and rabbit brush.

With the exception of one spring in sec 22 and the Paria river there is no water in the township, and this is very strongly alkaline.

Thomas Levy can not be found.

There is one deserted cabin in sec 7 and one in sec 21.

The Southwestern corner of the township is broken by an impassable canon 1000 feet deep and can not be surveyed.

There are no indications of mineral.

Alfred B. Lewis
U. S. Dep. Sur.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

, United States Deputy Surveyor, d
solemnly swear that in pursuance of a warrant received from
bearing date of the
day of 18 , I have well, faithfully, and truly, in my own
proper person, and in strict accordance with the instructions furnished by the United States Surveyor
General, the Manual of Surveying Instructions, and the laws of the
United States, surveyed and marked the following described

of the
, which are represented in the
accompanying plat, according to the best skill and ability given me by God, and under my direction; and I do further solemnly
swear that the surveys of said public lands 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, and in the specific manner described in the field notes, and the
plat hereunto annexed, original field notes of such surveys; and should any fraud be detected, I will suffer
the penalties of perjury, as set forth in the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 24th, 1907

I hereby approve the subdivisional lines of township
2 South, Range 1 West of the Salt Lake Base and Meridian
Utah.

Forest P. Rees
Chief Clerk

, having been
, the said field notes and the
plat
are
correct.

Forest P. Rees
United States Surveyor General.

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

United States Surveyor General.

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Examined

4—679.

BOOK A-246

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township 37 South, Range 5 West

Of the Salt Lake Base and Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced June 10th, 1897

Survey completed June 14th, 1897

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NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Rodman
Frank L. Goodwin	Flagman

6—151

BOOK A-246

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

.....

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

.....

.....

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

Subdivision T. 37 S. R. 5 W

Survey commenced June 10 1897 and executed with a Strassburger transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah Jan. 26. 1897.

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

On account of precipitous mountains in the South eastern cor of Tp. therefore I begin as follows.

At the cor of sec. 3, 4, 33 and 34 on the E. bdy of T. 37 S. R. 5 W. which is a sandstone 8x10x6 ins above ground firmly set and marked and witnessed as described by the surveyor general in latitude 37°33' N. Longitude 112°27' W. I set off 37°33' N on the lat. arc: 23°07' N on the decl. arc and at 5h 40m p.m. l.m.t. determined with the solar a true meridian and mark a point thereof on a stone firmly set in the ground 5.00 chs N of the cor.

At 14h 04m l.m.t. I observe Polaris

Lains at eastern elongation in accordance with the Manual of Instruction and mark a point in the line thus determined on a plug driven in the ground 3.00 chs N. of my station.

June 10 1897.

June 11: At 9h 30m a.m. l.m.t. I lay off the azimuth of Polaris 1°34' to the west and mark the true meridian thus determined by cutting a small groove in the stone set June 10, on which the true meridian falls 0.3 ins East of the mark determined by the solar.

At 8h 00m l.m.t. I set off 37°33' N on the lat. arc & 23°09' N on the dec. arc and determine a true meridian with the solar which coincides with the true meridian established by the Polaris observations.

The solar apparatus by p.m. observation defines position for true meridian about 0.16" west and by a.m. observation coincides with the true meridian established by observation on Polaris. Therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8.30 a.m. is N 15°-30' W. The angle thus determined, reduced by the table, page 100 gives the mean mag. dec. 15°-25' E.

From the cor already described I run

N 89°45' E on S bdy of sec 34: at 39.93 chs fall 7 lks N of the 1/4 sec cor and at 79.90 chs fall 13 lks N of the

Subdivisions of T. 37 S. R. 5. W. continued

Chains	
	Cor of secs 2. 3. 34 and 35. therefore the line Bears N 89°51 E.
	From the cor of secs 3, 4, 33 and 34 Drum
	S 89°45' W on the S bdy of secs 33. at 39.95 fall 8 lks S of the 1/4 sec cor and at 80.03 fall 13 lks S of the cor of secs 4, 5, 32, and 33. therefore the S bdy of sec 33 bears S 89°51' W.
	I commence at the cor of secs 3, 4, 33 and 34 above described
	Thence Drum
	N 0°02' W bet secs 33 and 34
	Over broken land through dense undergrowth descending.
40.00	Set sandstone 20 x 10 x 8 ins 15 ins in the ground for 1/4 sec cor. marked 1/4 on N. face. and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
46.00	Dry wash dis N. W.
80.00	Set sandstone 18 x 10 x 6 ins 14 ins in the ground for cor. of secs 27, 28, 33 and 34 marked with 1 notch on S and 3 notches on E edges: and raise a mound of stone 2½ ft base 1½ high W of cor. pits impracticable.
	Land broken and rolling.
	Soil sandy loam with gravel and rock: 4th rate
	Timber pawns, bitter brush sage etc.
	Dense undergrowth on 80.00 chs.

The cor of secs 26, 27, 34 and 35 is not set, therefore from the cor of secs 27, 28, 33 and 34 Drum

Subdivisions of T.37.S. R.5.W continued

Chains	
	N. 89°51' E on a true line bet secs 27 and 34
	Over rolling land through dense undergrowth.
15.00	ascend abruptly cut timber
30.00	Top of ridge brs N and S. descend
38.00	Bottom of hollow drs N. ascend abruptly.
40.00	Set a sandstone 12×8×4 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which a yellow pine 30 ins diam bears S 45 1/4° E 100 lks dist marked 1/4 S. B.T.
	Cedar 20 ins diam bears N 26° W. 42 lks dist. marked 1/4 S. B.T.
63.50	It being impracticable to run further East on account of perpendicular breaks therefrom I set a sandstone 18×12×3 ins 14 ins in the ground for w 1/4 cor to cor of secs 26, 27, 34 and 35 marked N.C. on N.E. face with 1 notch on S. and 2 notches on E edges. and raise a mound of stone 2 ft base 1½ ft high with of cor. pits impracticable.
80.00	Falls in perpendicular breaks.
	Land mountainous and rolling Soil gravely and stony 4th rate Timber pine, cedar, sassafras Mountainous land on 63.50 chs. Dense undergrowth on 80.00 chs.

	N 0°02' W bet secs 27 and 28
	Over rolling land through dense undergrowth
40.00	Set a sandstone 16×10×4 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N of cor.

Subdivisions of T.37.S. R.5.W. continued

Chains	
	pits impracticable
80.00	Set a sandstone 16x8x4 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, and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
	Land rolling
	Soil gravelly ich rate
	No timber
	Dense undergrowth on 80.00 chs.
	The cor of secs 22, 23, 26 and 27 is not set, therefore Drain N 89°51' E on a true line bet secs 22 and 27
	Over broken land
18.00	Dry wash drs N.W.
40.00	Set a sandstone 12x10x8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
69.75	Foot of perpetual mountains.
	Set a sandstone 12x10x8 ins 8 ins in the ground for witness cor to cor of secs 22, 23, 26 and 27 marked W.C. on N.E. face with 2 notches on S and 2 notches on E edges from which
	Open 13 ins diam bears S 65° E 78 lks dist. marked W.C. T.37.S. R.5.W. S 26 B.T.
	Open 7 ins diam bears S 62° W. 23 lks dist. marked T.37.S. R.5.W. S 27 B.T.
	Open 12 ins diam bears West 21 lks dist. marked T.37.S. R.5.W. S 27 B.T.
	Open 8 ins diam bears N 10° W. 30 lks dist. marked T.37.S. R.5.W. S 22 B.T.
80.00	Cor falls on cliffs and cannot be set.

Chains.	
	Land broken or mountainous Soil gravelly, and stony 4th rate. Timber none except ah N.P. Dense undergrowth on 80.00 chs. (Mountainous Land)
	June 11: At the witness cor to cor of secs 22, 23, 26 and 27 Deck off 23° 09' N. on the decl. arc: and ah 0h 00m. did not observe the sun on the meridian. the resulting lat is 37°35'39".
	The cor of secs 22, 23, 26 and 27 is not set, therefore from a point 25.00 chs East of the 1/4 sec cor bet secs 22 and 27 Drum N0°01' W on an offset line along foot of mountains. At 40.00 chs Drum East 8.50 chs to a point 6.50 chs west of the point for 1/4 sec. cor. bet secs 22 and 23 at the foot of precipitous ascent of mountains on the E.
40.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for witness cor. to 1/4 sec. cor. marked W.C. 1/4 on W face from which
	A pine 7 ins diam. bears N66°E 75 lks dist marked W.C. 1/4 B.B.T.
	A cedar 20 ins diam bears S46° W 48 lks dist. marked W.C. 1/4 B.B.T.
	Thence I continued N0°01' W on the offset line above described At 80.00 chs Drum East 15.00 chs to the cor of secs 14, 15, 22 and 23
80.00	Set a limestone 16 x 12 x 6 ins 12 ins in the ground for cor of secs 14, 15, 22 and 23 marked each 3 notches on Said 2 notches on E edges from which
	A pine 10 ins diam bears N66°E 55 lks dist

Subdivisions of T.37, R.5, W. continued.

Chains	
	marked T.37, R.5, W. S. 14 B.T.
	A pine 8 ins diam bears S 47 2/3° E 54 lks dist.
	marked T.37, R.5, W. S 23 B.T.
	A pine 4 ins diam bears S 41 1/2° W. 44 lks dist.
	marked T.37, R.5, W. S. 22 B.T.
	A pine 20 ins diam bears N. 6° W. 28 lks dist.
	marked T.37, R.5, W. S 15 B.T.
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar
	Dense undergrowth and mountainous land on 80.00 chs.
	It being impracticable to run E on account of cliffs & ravines.
	N. 0° 10' W. bet sec 10 and 15
	Over mountainous land
	[illegible] abruptly through heavy timber
12.00	Top of ridge bro N.W. and S.E. descending
21.00	Valley cks N.W. ascend
30.00	Top of ridge bro N.W. and S.E. descending
40.00	Set a sandstone 20 x 12 x 8 ins 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which
	A pine 16 ins diam bears N 55 1/2° E. 17 lks dist.
	marked 1/4 S. B.T.
	A pine 18 ins diam bears N 80 1/2° W. 27 lks dist.
	marked 1/4 S. B.T.
45.00	Scant heavy timber descending gradually through dense undergrowth.
80.00	Set a sandstone 18 x 18 x 8 ins 10 ins in the ground for cor of secs 10, 11, 14 and 15. and raise a mound of stone 3 ft base 1½ ft high N of cor. pits impracticable.
	Land mountainous and rolling
	Soil gravelly and stony 4th rate
	Timber pine and cedar.
	Mountainous land 46 chs. heavily timbered and dense undergrowth.
	80.00 chs

Subdivisions of T37N R6W continued

Chains. The cor. of secs 11, 12, 13 and 14 is not set, therefore I run
N 89°51' E on a true line bet secs
11 and 14
Over rolling land; through heavy
timber ascending.
33.00 Descend
36.00 Valley 100 ft below top of slope dis
N.W. ascend
— 40.00 Set a sandstone 16 x 10 x 8 ins 12 ins in
the ground for 1/4 sec. cor. marked
1/4 on N. face from which
A pine 12 ins diam bears N 36½° E 85 lks dist.
marked 1/4 S. B.T.
One mahogany 6 ins diam bears N 84½° E 82 lks dist.
marked 1/4 S. B.T.
44.00 Foot of precipitous mountain.
I abandon the line here.
Land rolling and mountainous.
Soil gravelly and stony of a rate.
Timber pine, cedar, some mahogany.
Heavily timbered land and dense
undergrowth on 40.00 chs.

N 0°01' W bet. secs 10 and 11
Over rolling land through dense
undergrowth
40.00 Set a sandstone 16 x 8 x 6 ins 12 ins in the
ground for 1/4 sec. cor. marked 1/4 on
N. face. dig pits 18 x 18 x 12 ins N and
S of stone 3 ft dist and raise a
mound of earth 3½ ft base 1½ ft high
N of cor.
73.00 Descend
78.00 Dry wash dis N.W. 100 ft deep asceng
enter timber
— 80.00 Set a sandstone 12 x 6 x 8 ins 8 ins
in the ground for cor. of secs 2, 3,
10 and 11, marked with 5 notches on
S and 2 notches on E edge, from which

Subdivisions of T37.R.R5.W. continued

Chains.	Apple 6 ins diam bears N55½° E 32 lks dist. marked T37.R.R5.W. B.2.B.T.
	Apple 6 ins diam bears S57⅔° E. 45 lks dist. marked T37.R.R5.W.B.11.B.T.
	Apple 6 ins diam bears N.28½° W 39 lks dist. marked T37.R.R5.W.B.3.B.T.
	Apple 6 ins diam bears N82° W. 40 lks dist. marked T37.R.R5.W.B.3.B.T.
	Land rolling
	Soil gravelly and stony with rate.
	Timber fine and cedar.
	Dense undergrowth on 80.00 chs.
	The cor of sec 1, 2, 11 and 12 is not set therefore Drum.
	N89°51' E on a true line between 2 and 11
	Over rolling land through dense undergrowth and scattering timber.
40.00	Set a sandstone 13 x 8 x 7 ins 9 ins in the ground for 11 sec cor, marked 11 on N face: dig pits 18 x 18 x 12 ins E and N of stone 3 ft deep and raise a mound of earth 3½ ft base 1½ ft high N of cor.
57.00	Enter heavy timber. ascend abruptly.
62.00	Top of precipitous mountains.
	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for witness cor to cor of secs 1, 2, 11 and 12. marked W.P. on N.E. face with 5 notches on S. and 1 notch on E edge from which.
	Apple 12 ins diam bears N.18° E 38 lks dist. marked W.C. T37.R.R5.W.B.1.B.T.
	Cedar 12 ins diam bears S43° E 73 lks dist. marked W.C. T37.R.R5.W.B.12.B.T.
	Apple 10 ins diam bears S40° W 38 lks dist. marked W.C. T37.R.R5.W.B.11.B.T.
	Apple 10 ins diam bears N.65° W. 60 lks dist

Continuation of T. 37 S. R. 5 W. continued

Chains. Marked W.C. 1/4 T37 S R5 W. B.T. B.T.

14.00 The cor. falls in cliffs and can not be set.

Land mountainous and rolling
Soil stony and gravelly 4th rate
Timber scattering pines and cedars.

Drove underground on 80.11 chs.

From a point 15.00 chs. W. of the 1/4 sec cor. bet secs 2 and 11, I run
N 0° 01' W. on offset random line to
at 14.00 set temp point at 75.80 intersect the N. bdy of Tp. 24.62 chs W of the cor of secs. 1, 2, 35 and 36. Thence from a point 2.50 chs N. of the cor of secs 1, 2, 35 and 36 I run
S 0° 19' E on a true course.
35.80 to a point thence East. 14.00 chs. to a point 11.00 chs W. of the 1/4 sec. cor.
It being impracticable to run further
35.80 E at this point I set a sandstone 14x10x4 in 10 ins in the ground for Witness cor to the 1/4 sec cor. marked W.C. 1/4 on on W. face from which
I run meridian bear S 49° E 15 lks dist
marked W.C. 1/4 S B.T.
I run 18 ins dia bear N 76° W 18 lks dist.
marked W.C. 1/4 S B.T.

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

Land mountainous
Soil rocky 4th rate
Timber Pine and cedar
Mountainous land on 75.80 chs.

Subdivisions of T. 37 S. R. 5 W. continued

Rains	From the cor. of secs 2, 3, 10 and 11
	Drun
	N. 0° 01' W. on a random line bet secs 2 and 3
40.00	Set temp 1/4 sec. cor.
75.74	Intersect the W. bdy of Tp 35 lks E of the cor of secs 2, 3, 34 and 35. which is a sandstone 5'x10'x4' above ground marked and witnessed as described by the surveyor general.
	Thence Drun.
	S. 0° 14' E. on a true line bet secs 2 and 3.
	Over rolling land through dense undergrowth.
35.74	Set a sandstone 12x10x5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high W of cor. pit impracticable.
	Ascend bench 50 ft high trs N.W. and S.E.
39.00	Top of bench.
75.74	The cor of secs 2, 3, 10 and 11
	Land rolling
	Soil gravelly and stony 14 ch rate
	No timber
	Dense undergrowth on 75.74 chs.
	June 11. 1894

June 12: At 7h 00m a.m. Sun t. O set off 37° 35' N on the lat. arc; 23° 13' N. on the decl. arc; and determined a true meridian with the solar at the cor of secs 21, 22, 27 and 28. Thence Drun N. 0° 02' W. bet secs 21 and 22.

Over rolling land, through dense undergrowth.

17.60 Dry wash trs N.W.

Chains	
40.00	Set a sandstone 12×12×4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable
80.00	Set a sandstone 12×8×6 ins 8 ins in the ground for cor of secs 15, 16, 21 and 22 marked 39 S on N.E. angle 5 W. on S.E faces with 3 notches on S. and E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. Land rolling Soil gravelly and stony with rate No timber. Dense undergrowth on 80.00 chs
	N 84°15' E on a random line bet secs 15 and 22.
40.00	Set temp 1/4 sec cor.
79.90	Intersect N and S line 3 lks S of cor of secs 14, 15, 22 and 23 Thence Drain S 89°50' W on a true line bet secs 15 and 22 Over rolling land through heavy timber and dense undergrowth. Descending
28.00	Spring branch 5 lks wide dir N.W.
35.00	Ascend abruptly leave timber
39.00	Top of bench 50 ft high bears N.W. & S.E.
39.95	Set a sandstone 14×8×6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Pecan 8 ins diam bears S 39° E. 136 lks dist. marked 1/4 S. B.T. no other trees within limit. Drains

Subdivision of T37S. R5W. continued.

Chains	a mound of stone 2 ft base 1½ ft high N. of cor. pit impracticable. Descending gradual
79.90	The cor of secs 15, 16, 21 and 22. Land rolling and broken. Soil gravel, and stony Alk rate. Timber pine and cedar. Heavily timbered. ... dense undergrowth on 79.90 chs.
	N 0°02' W bet secs 15 and 16 Over rolling and broken land through dense under growth.
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for ¼ sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
42.00	Descend into gulch 50 ft deep drs N.W.
44.00	Foot of slope. Enter cultivated field in bottom of gulch.
53.00	Irrigating ditch 3 ft wide 1 ft deep. drs N.W.
54.00	Dry wash 10 ft deep leave field ascend wash drs N.W.
76.00	Top of bench 100 ft above bottom.
80.00	Set a sandstone 16 x 10 x 6 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, and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits imp. Land rolling. Soil sandy loam in bottom and gravelly and stony on bench Alk rate. No Timber.

Subdivisions of T. 39 S. R 5 W. continued.

Chains.	Dense undergrowth on 80.00 chs.
	N. 89°56' E on a random line bet secs 10 and 15
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S. line at the cor. of 10, 11, 14 and 15
	Thence S. on
	S 89°50' W on a true line bet secs 10 and 15
	Over rolling land through dense undergrowth.
40.00	Set a sandstone 12 x 12 x 4 ins 8 ins in the ground for 1/4 sec. cor. marked 14 on N. face, and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
60.00	Descend through heavy timber
67.00	Leave timber
80.00	The cor of secs 9, 10, 15 and 16.
	Land rolling
	Soil gravel, and stony 4th rate
	Timber pine and cedar.
	Dense undergrowth on 80.00 chs.
	Heavy timber on 7.00 chs.
	N 0°02' W. bet secs 9 and 10
	Over rolling land through dense undergrowth.
26.00	Enter heavy timber.
40.00	Set a sandstone 14 x 8 x 3 ins 10 ins in the ground for 1/4 sec. cor. marked 14 on N. face from which
	Pine 24 ins diam bears N 7½° E 216 lks dist. marked 14 B.T.
	Cedar 20 ins diam bears N 75½° E. 131 lks dist. marked 14 B.T.
46.00	Descending
51.00	Dry wash dis N. ascend
54.00	Leave heavy timber, top of slope.

Subdivisions of T.37 S. R5 W. continued

Chains	
80.00	Set a sandstone 20×12×6 ins 15 ins in the ground for cor of secs 3, 4, 9 and 10 marked with 5 notches on S. and 3 notches on E edges and raised a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable. Land rolling. Soil gravelly and stony: wh rate Timber pine and cedar. Heavily timbered w. dense undergrowth on 80.00 chs.
	N 89° 50' E on a random line bet secs. 3 and 10.
40.00	Set temp 1/4 sec. cor.
80.16	Intersect N. and S. line at cor of secs 2, 3, 10 and 11.
	Thence I run S 89° 50' W on a true line bet secs 3 and 10
	Descend
4.00	Dry wash 50 ft deep drs N. W.
	Ascend
10.00	Top of bank over rolling land
40.08	Set a sandstone 18×14×4 ins 14 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Open 8 ins diam bears N 71° W 81 lks dist. marked 1/4 S.B.T.
	Open 12 ins diam bears N 89° W. 100 lks dist. marked 1/4 S.B.T.
	Enter dense timber descend
61.00	Leave dense timber: rolling land
80.16	The cor of secs 3, 4, 9 and 10
	Land rolling
	Soil gravelly and stony: wh rate
	Timber pine and cedar
	Heavily timbered w. dense undergrowth on 80.16 chs.

Subdivisions of S.37.B. R.5.W. continued

Chains.	
	N0°03' W on a random line bet secs 3 and 4
40.00	Set temp 1/4 sec. cor.
76.09	Intersect N bdy of Tp at the cor of secs 3, 4, 33 and 34 which is a sandstone 6"x12"x4" above ground marked and witnessed as described by the surveyor general.
	Thence I run S0°03' E on a true line bet secs 3 and 4
	Over rolling land through dense brush
36.09	Set sandstone 12x10x4 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face. dig pits 18x18x12 ins N. and S. of stone 3 ft dist and raised a mound of earth 3½ ft base 1½ ft high N. of cor.
76.09	The cor of secs 3, 4, 9 and 10
	Land rolling.
	Soil gravely and stony: 4th rate
	Timber none
	Dense undergrowth on 76.09 chs.
	June 12, 1897

June 14: At 7h 00m a.m. l.m.t. I set off 37°33' N on the lat. arc: 23°19' N on the decl. arc and determining a true meridian with the Polar at the cor of secs 4, 5, 32 and 33 on S. bdy of Tp.

From this cor. which is a sandstone 6x4x8 ins above ground marked and witnessed as described by the surveyor general. I run

N0°03' W bet secs 32 and 33

Over broken land through dense undergrowth

26.00	Descending into wide gulch 50 ft deep

Subdivisions of T. 37 S. R. 5 W. continued

Chains	
31.00	Dry wash drs N.W.
36.00	Dry wash drs N.W. culls timber
40.00	Set a sandstone 16 x 8 x 5 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Cedar 6 ins diam bears N 62 3/4° E 56 lks dist. marked 1/4 S.B.T.
	Cedar 10 ins diam bears S. 15° E. 175 lks dist. marked 1/4 S.B.T.
	Ascend out of canon.
53.00	Top of ben ch W. 1.50 leave dense timber
80.00	Fall 2.95 chs N. and 1.87 chs E of the old cor of secs 28, 29, 32 and 33. Therefore S
	Set a sandstone 14 x 9 x 8 ins, 10 ins in the ground for N. M. cor of sec 33 & N. C. cor of sec 32 marked with 1 notch on S. and 4 notches on E. edges, and raised a mound of stone 2 ft base 1 1/2 ft high S. of cor. pits impracticable.
	Land rolling and broken
	Soil gravelly and stony; 4th rate
	Timber pinon and cedar
	Heavily timbered and dense under-growth on 80.00 chs.
	N 87° 51' E on a random line bet secs 28 and 33
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S line 20 lks N of cor of secs 27, 28, 33 and 34
	Thence Trav N.
	West on a true line bet secs 28 and 33
	Over rolling land through dense undergrowth.
35.00	Descend into gulch 40 ft deep.
40.00	Set a sandstone 24 x 8 x 6 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound

Subdivisions of T32 S. R5 W. continued

Chains	
	of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Ballow of gulch. Dry wash drs N.W.
59.00	Ascend side of gulch
61.00	Top of bench, N.W. & S.E. ascend gradually
75.00	Top of ridge brs N.W. and S.E.
78.00	Dry wash drs N.W.
80.00	The N.W. cor. of sec 33.
81.87	Intersect N. and S. line bet secs 28 and 29, 2.95 chs N. 26 E. of old cor. Set a sandstone 16×12×6 ins, 12 ins in the ground for closing cor. of secs 28 and 32 marked C C on E face with 1 groove on S. and 4 grooves on E. faces, and raised a mound of stone 2 ft base 1½ ft high E. of cor. pits impracticable.
	Land rolling
	Soil gravel and stony. Timber
	No timber.
	Dense undergrowth on 81.87 chs.

From the cor. of secs 21, 22, 27 and 28. Run

West on a closing line bet secs 21 and 28.

Over rolling land through dense undergrowth.

40.00	Set a sandstone 12×10×6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft base 1½ ft high W. of cor.
81.20	Intersect N. and S. line 3.28 chs N. 29 E. of old cor. to secs 20 & 29
	Set a sandstone 12×10×6 ins 8 ins in the ground for closing cor. to secs 21 and 28 marked C.C. on E. faces with 2 grooves on S.

Subdivisions of T.37.S. R.5.W. continued -

Chains	and 4 grooves on E. faces and raised a mound of stone 2 ft base 1½ ft high East of cor. pits impracticable Land rolling Soil gravelly and stony: 4th rate No timber. Dense undergrowth on 81.20 chs.
	From the cor of secs 15, 16, 21 and 22 Down West on a closing line bet secs 16 and 21 Over rolling land, through dense undergrowth.
40.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
62.00	Descend into Dry wash 30 ft deep.
65.00	Bottom of Dry wash dis N.W.
72.00	Across wash over rolling land
80.45	Intersect N. and S. line 3.39 chs N 0°18' E of cor. to secs 17 & 20
	Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for closing cor. to secs 16 and 21. marked C.C. on E face with 3 grooves on S and 4 grooves on E faces. from which Open 4 ins diam bears S 88° E. 68 lks dist marked C.C. T.37.S. R.5.W. S.21. B.T. Open 4 ins diam bears S 80° E. 86 lks dist. marked C.C. T.37.S. R.5.W. S.21. B.T. Land rolling Soil gravelly and stony: 4th rate No timber. Dense undergrowth on 80.45 chs.

Subdivisions of T37 S. R5 W. continued—

June 12

Chains. At this cor I set up 23-19 N on the div line and at 0h 00m 0s observe the sun on the meridian the resulting lat is 37°36'

From the cor of secs 9, 10, 15 and 16
I run
West on a closing line bet secs. 9 and 16. over
Over rolling land through dense undergrowth and scattering timber
Ascend
8.00 Foot of slope leave timber bears N 77° W 56
30.00 across flat. ascend " " "
35.00 Top of slope. over rolling land bears N 77° W 56
40.00 Set a sandstone 12 x 12 x 3 ins 3 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
I find pine 16 ins diam bears N 13° E, 18 lks dist marked 1/4 S. B. T.
a pine 8 ins diam bears N 8° W. 46 lks dist. marked 1/4 S. B. T.
— 79.66 Intersect N and S line 4.27 chs
N 26 lks to lost cor. to secs 8 & 7
Set a sandstone 12 x 8 x 6 ins. 8 ins in the ground for closing cor to secs 9 and 16 marked 1/4 on E face with cut & grooved on S and 4 grooves on E face and raised a mound of stone 2 ft base 1½ ft high E of cor.
Pits impracticable
Land rolling
Soil gravelly and stony 4th rate
Timber pine and cedar.
Dense undergrowth on 79.66 chs

From the cor of secs. 3, 4, 9 and 10
I run West on a closing line bet secs 4 and 9.
Over rolling land through dense undergrowth

Subdivisions of T.37 S. R.5 W. continued

Chains.	
29.00	Descend into gulch 40 ft deep
32.00	Gulch dis N. W. Dry wash
35.00	Across gulch ascend
38.00	Descend gradualy
40.00	Set a sandstone 18×9×8 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Cedar 10 ins diam bears S 3½° E 76 lks dist. marked 1/4 S.B.T.
	Apple 16 ins diam bears S. 60° E. 21 lks dist. marked 1/4 S.B.T.
42.00	Foot of slope
60.00	Road bears N. N and S. E.
79.00	Intersect N. and S. line 41.0 chs
	To 1/16 of. alt cor. to sec 5 & 8
	Set a sandstone 16×8×6 ins 12 ins in the ground for closing cor. to secs 4 and 9 marked C.P. on E face with 5 grooves on S. and 4 grooves on E. faces. from which
	Cedar 6 ins diam bears N 21° E 103 lks dist marked C.P. T.37 S. R.5 W. S.4. B.T.
	Cedar 10 ins diam bears S. 23° E. 162 lks dist, marked C.P. T.37 S. R.5 W. S.9. B.T.
	Land rolling
	Soil gravelly and stony 4th rate.
	Timber pine and cedar
	Dense undergrowth on 79.00 chs.

June 14th 1899

Replacement of Township & Section lines T37S R5W

Chains	
	From the cor of secs 4, 5, 32 and 33 on the S bdy of T.37.S. R5.W. I run S89°48'W on a replacement line bet secs 5 and 32
40.25	The 1/4 sec cor
80.41	The cor of secs 5, 6, 31 and 32
	Thence North bet secs 31 and 32
39.50	The 1/4 sec cor.
77.30	The cor of secs 29, 30, 31 and 32
	Thence S89°55'E bet secs 29 and 32
39.10	The 1/4 sec cor.
78.05	The cor of secs 29 and 32. I destroy all markings pertaining to secs 28 and 33 & 32
	Thence I run N0°26'E bet secs 28 and 29
2.95	Intersect Closing cor for secs 28 and 32.
39.86	The 1/4 sec cor.
79.67	The cor of secs. 20 and 29 I destroy all marks pertaining to secs 21 and 28
	Thence N.0°26'E bet secs 20 and 21
3.28	Intersect Closing cor for secs 21 and 28
39.90	The 1/4 sec. cor.
79.87	The cor. of secs 17 and 20. I destroy all markings pertaining to secs 16 and 21
	Thence I run N0°31'E bet secs 16 and 17
3.39	Intersect the Closing cor for secs 16 and 21
39.60	The 1/4 sec. cor.
79.12	The cor of secs 8 and 17. I destroy all markings pertaining to secs 9 and 16.
	Thence I run N0°26'E bet secs 8 and 9
4.27	Intersect Closing cor of secs 9 and 16

Replacement of Township & Section lines Tp. 37 S. R. 5 W.

Chains	
40.10	The 1/4 sec. cor
80.17	The cor of secs 5 and 8. Destroy all marking pertaining to secs 4 and 9
	Thence Drum
	N 0°11' E bet secs 4 and 5
4.10	Intersect the closing cor of secs 4 and 9.
40.07	The 1/4 sec. cor.
80.15	The cor of secs 4, 5, 32 and 33 on N. bd. of Tp
	Thence Drum
	S 89°50' E bet secs 4 and 33 along N bdy of Tp
38.75	The 1/4 sec cor.
78.76	The cor of secs 3, 4, 33 and 34

Volume
#
R0246

General Description

This township is rolling and mountainous. The eastern part lays in perpendicular cliffs which cannot be surveyed.

The land is suitable for grazing but with the exception of a few acres in sec 15 and 16 is not suitable for cultivation.

The land is covered with dense and scattering scrub pine and cedars and dense artemisia rabbit and service brush.

The only water found is a small spring branch in sec 15.

There is a small field of cultivated land in secs 15 and 16 and a deserted cabin in sec 9.

Alfred B Lewis
U.S. Dep Sur.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

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

SEAL

.....

.....

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

[illegible] United States Deputy Surveyor, do [illegible] of [illegible] bearing date of the [illegible] 18[illegible], I have well, faithfully, and truly, in my own [illegible] the surveys so furnished by the United States Surveyor [illegible] the Manual of Surveying Instructions, and the laws of the [illegible]

[illegible] of the [illegible] which are represented in the [illegible] by me or under my directions, and I do further solemnly [illegible] established and perpetuated in strict accordance with [illegible] the special written instructions of the United States Surveyor [illegible] and in the exact manner described in the field notes, and that [illegible] such surveys, and should any fraud be detected, I will suffer [illegible] provided for Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

[illegible] and sworn to before me [illegible]
[illegible] 18[illegible]

[illegible]

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

[illegible] 18[illegible]

[illegible] boundary lines of [illegible] Springs [illegible] the [illegible] Utah

Approved by me [illegible] Surveyor [illegible] 18[illegible] in the [illegible] and examined the said field notes, and the [illegible]

[illegible]
United States Surveyor General.

[illegible] the [illegible] and [illegible] from original [illegible] in this office.

United States Surveyor General.

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4—679.

BOOK A-246

No. 3. B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township 36 South, Range 6 West

Of the Salt Lake Base and Meridian,

In the State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced June 15th, 1897

Survey completed June 25th, 1897

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Subdivisional Lines — 59-55-57 ✓
Lines — 8-20 ✓
Chainage — 1-05-36 ✓

Chainage — 5-76-56 ✓
" 6-03-68 ✓
" 6-00-80 ✓
18.01.94

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Monumentman
Frank L. Goodwin	Flagman

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BOOK A-246

INDEX DIAGRAM.

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

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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 th
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; tha
we will report the true distances to all notable objects, and the true lengths of all lines that we assist i
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey o
.....

..... *Chainman*

..... *Chainman*

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

SEAL

.....

.....

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

.....

.....

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

..... *Axman.*

..... *Axman.*

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

SEAL

.....

.....

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

..... *Flagman.*

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

SEAL

.....

.....

Subdivision of T. 36 S. R. 6 W.

Survey commenced June 15 1897 and executed with an L. R. Gurley transit with a solar attachment.
The horizontal limb is provided with two double verniers placed opposite to each other reading to 30" of arc, which is also the least count of the verniers of the latitude and declination arcs
The instrument was examined, tested on the true meridian at Salt Lake found correct and was approved by the surveyor general of Utah Jan. 26, 1897.
Examined the adjustments of the transit and corrected the line and collimation errors then to test the solar apparatus, by comparing its indications resulting from solar observations, made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceeded as follows.
At the cor of Tps 36 and 37 S. Rs 5 and 6 W. latitude 37°38' N. longitude 112°30 W.
Took off 37°35' N on the lat. arc: 23°22' N on the decl. arc and at 4h 00m p.m. l.m.t. determined with the solar a true meridian and mark a point thereon on a stone firmly set in the ground 5.00 chs N. of the cor.
At 1h 45m A.M. I observed Polaris at Eastern elongation in accordance with Manual of Instructions and mark a point in the line thus

Chain determined on a peg driven in the ground 5.00 chs N of my station
June 15. 1897

June 16: At 6h 30m a.m. l.m.t. I lay off the azimuth of Polaris 1°34' to the west, and mark the true meridian thus described by cutting a small groove in the stone set June 15 on which the true meridian falls 0.5 ins E of the mark determined by the solar.
At 7h 00m a.m. l.m.t. I set off 37°38' N on the lat. arc: 23°25' N on the decl. arc: and mark a point in the true meridian determined with the solar by a cross on the stone already set 5.00 chs N of my station. This mark falls 0.6 ins East of the true meridian established by the Polaris observation.
The solar apparatus by p.m. and a.m. observation defines positions for true meridians respectively about 25" west and 24" East of the meridian established by the Polaris observation: therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at 8h 00m a.m. is N 15°23' E. The angle thus determined reduced by the table page 100 gives the mean mag. decl. 15° 17' E.

Retracement of South and East bdys of T 36 S R 6 W.

Knowing that the South and East bdy's of the Tp are defective in alignment and measurement I go to the cor of T's 36 and 37 S R's 6 and 7 W which is a sandstone 8 x 10 x 6 ins firmly set in the ground and marked and witnessed as described by the Surveyor General, and retrace the S bdy as follows.

East bet secs 6 and 31

36.75 The 1/4 sec cor.

76.75 Intersect the cor of secs 5, 6, 31 and 32

Thence I run

East bet secs 5 and 32

39.80 The 1/4 sec cor.

79.65 Intersect the cor of secs 4, 5, 32, and 33

Thence I run.

East bet secs 4 and 33

39.80 The 1/4 sec cor.

79.70 Intersect the cor of secs. 3, 4, 33, and 34.

Thence I run.

N 89° 28' E Bet secs 3 and 34

39.50 The 1/4 sec cor.

78.84 Intersect the cor of secs 2, 3, 34, and 35

Thence I run

S 88° 26' E bet secs 2 and 35

39.85 The 1/4 sec cor.

79.76 Intersect the cor of secs 1, 2, 35, and 36

Thence I run.

S 88° 35' E Bet secs 1 and 36

41.75 The 1/4 sec cor.

81.87 Intersect the cor of T's 36 and 37 S R's 5 and 6 W. Granite 17 x 10 x 10 ins as described by the Sur Gen.

Therefore I find the southing of the S bdy to be 3.49 chs which is more than 50 lbs. to the mile.

Thence from the cor of T's 36 and 37 S R's 5 and 6 W I run North on the East bdy of the Township bet secs 31 and 36

40.05 The 1/4 sec cor bears E 14 lks. dist

80.05	The cor of secs 25, 30, 31 and 36 which is a sandstone 18x14x10 ins 6 ins above the ground firmly set and witnessed as described by the Surveyor General. brs E 28 lks The course of the line is therefore N0°12'E Thence from the cor I run N0°12'E Bet secs 25 and 30.
39.90	The 1/4 sec cor.
79.89	Intersect the cor of secs 19, 24, 25 and 30 which is a sand stone 14x12x8 ins 4 ins above ground firmly set, marked and witnessed as described by the Surveyor General. Thence I run N 0°12' E bet secs 19 and 24.
39.93	The 1/4 sec cor.
79.86	Intersect the cor of secs 13, 18, 19, and 24 which is a Porphyry 17x10x10 ins 5 ins above ground firmly set marked and witnessed as described by the Surveyor general. Thence I run N0°12' E bet secs 13 and 18.
39.95	The 1/4 sec cor.
79.94	Intersect cor of secs 7, 12, 13 and 18. which is a granite 17x12x6 ins 5 ins above ground firmly set, marked & witnessed as described by the Surveyor General. Thence I run. N0°12'E bet secs 7 and 12.
40.03	The 1/4 sec cor.
80.14	Intersect the cor of secs. 1, 6, 7 and 12. which is a granite. 18x12x12 ins 6 ins above ground firmly set marked and witnessed as described by the Surveyor General. Thence I run, N0°12'E bet secs 1 and 6
39.95	The 1/4 sec cor
83.80	Intersect the CC cor of secs 1 and 6 T36 S Rs 5 and 6 W

Retracement of the West Bdy of T 36 S R 6 W.

Knowing that the West bdy of the Tp. is defective in both alignment and measurement I go to the corner of Ts 36 and 37 S, Rs 6 and 7 W, which is a sandstone 8 x 10 x 16 ins 4 ins above ground marked and witnessed as described by the Surveyor General and retrace the West bdy as follows.

North bet secs 31 and 36.

40.00 Fall 9 lks West of 1/4 sec cor.

80.00 Fall 18 lks West of cor to secs 25, 30, 31 and 36 which is a limestone 14 x 10 x 6 ins 4 ins above ground firmly set and witnessed as described by the Surveyor General. Course of line is therefore N 0° 08' E

Thence from the corner I run N 0° 08' E Bet secs 25 and 30.

39.76 The 1/4 sec cor.

79.52 Intersect the cor of secs 19, 24, 25 and 30 which is a limestone 14 x 10 x 8 ins 4 ins above ground firmly set and witnessed as described by the Surveyor General.

Thence I run N 0° 08' E Bet secs 19 and 24.

39.80 The 1/4 sec cor.

79.60 Intersect the cor of secs 13, 18, 19 and 24, which is a lava stone 16 x 10 x 6 ins 5 ins above ground firmly set and witnessed as described by the Surveyor General.

Thence I run N 0° 08' E Bet secs 13 and 18.

39.79 The 1/4 sec cor.

79.59 Intersect the cor of secs 7, 12, 13 and 18 which is a lava stone 15 x 8 x 4 ins 5 ins above ground firmly set and witnessed as described by the Surveyor General.

Thence S 0mm
N 0° 08' E Bet secs 7 and 12.

40.20 The 1/4 sec cor.

80.39 Intersect the cor of 1, 6, 7 and 12 which is a lava stone 16 x 10 x 6 ins 6 ins above ground firmly set and witnessed as described by the Surveyor General.

Thence S 0mm
N 0° 08' E Bet secs 1 and 6.

40.00 The 1/4 sec cor.

81.70 Intersect the CC cor of secs 1 and 6 which is a sand stone 14 x 10 x 4 ins 4 ins above ground firmly set and witnessed as described by the Surveyor General.

In conformity with the instructions in Manual page 76 fig 7 I establish a sectional correction line as follows.

From the cor of secs 25, 30, 31 and 36 I run N 0° 12' E 3.49 chs which is equal to the omitting of the S bdy of Tp and establish a temp cor to secs 25 and 36. Thence I run W on a random line bet secs 25 and 36 setting temp 1/4 sec and sec cors at intervals of 40.00 chs and at 5 miles 76.32 chs intersect the W bdy of Tp at the cor of secs 25, 30, 31 and 36

Thence I run
East on a true sectional correction line bet secs 30 and 31.

Are mountainous land through heavy timber and dense undergrowth.

Ascend gradually

10.00 Ascend slightly.

22.00 Top of knob 200 ft high bro N and S descend.

27.00 Bottom of small canon dry S.W. Ascend.

30.00 Set a limestone 12 x 10 x 10 ins 8 ins in the ground for 1/4 sec cor.

Subdivisions of T36N. R6W. continued.

Chains marked "14 on N face from which
Pine 30 ins diam bears S. 10½° E 213 lks dist.
marked "14 S.B.S."
Pine 28 ins diam bears N 51½° W 10 lks dist.
marked "14 S.B.S."

47.00 Top of hill 200 ft high
Descend abruptly

54.00 Foot of hill over broken land
bare heavy timber

62.00 Ascend abruptly.

76.32 Set a sandstone 14x12x3 ins 10 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
Pine 16 ins diam bears N 19½° W 32 lks dist.
marked T36N. R6W. S.31, B.T.
no other trees within limits.
Erase a mound of stone 2 ft
base 1½ ft high W of cor. pits
impracticable.
Land mountainous
Soil stony 4th rate
Timber Yellow pine, aspen
cedar
Mountainous land and dense
undergrowth on 76.32 chs.
Heavily timbered on 54.00 chs
June 17-1897

June 18: At 8h 40m a.m. L.M.T.
Set off 37°39' N on the lat. arc
23°27' W on the decl. arc and
determined a true meridian
with the solar at the cor. of
secs 29, 30, 31 and 32.
Thence Drew
East bet secs 29 and 32
Over mountainous land
ascending abruptly through
scattering timber and dense

Subdivisions of T36S. R6W. continued

Chains	
	undergrowth
22.00	Top of plateau 500 ft high
	Over rolling land
40.00	Reset a sandstone 12 x 9 x 5 ins 8 ins
	in the ground for 1/4 sec cor.
	marked 1/4 on N face from which
	Aspen 24 ins diam bears N 59° E 9 lks dist.
	marked 1/4 S.B.T.
	Aspen 30 ins diam bears S 29° W 15 lks dist.
	marked 1/4 S.B.T.
58.00	Small gulch bas N 60° E.
62.00	Aspen 6 ins diam on line marked 2 notches on E & W sides
80.00	Set a sandstone 12 x 8 x 6 ins 8 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
	Aspen 30 ins diam bears N 62½° E 34 lks dist
	Marked T36S. R6W. S 28 B.T.
	Aspen 24 ins diam bears S. 4½° E 18 lks dist.
	marked T36S. R6W. S 33 B.T.
	Aspen 16 ins diam bears S. 3½° W. 53 lks dist.
	marked T36S. R6W. S 32 B.T.
	Aspen 24 ins diam bears N. 37⅔° W. 90 lks dist
	marked T36S. R6W. S 29. B.T.
	Land mountainous and rolling
	Soil stony & shrate.
	Timber yellow pine and aspen
	Mountainous land or dense
	undergrowth on 80.00 chs.

	East bet secs 28 and 33.
	Over mountainous land
	through dense undergrowth and
	scattering timber.
16.00	Edge of plateau descend abruptly.
40.00	Set a limestone 12 x 10 x 6 ins. 8 ins in
	the ground for 1/4 sec cor.
	marked 1/4 on N. face from
	which

Subdivisions of T36S. R6W. continued.

Chains	
	Pine 18 ins diam bears S.80° E 20 lks dist, marked ¼ S. B.T.
	Pine 18 ins diam bears S.65° W. 74 lks dist, marked ¼ S. B.T.
63.00	A willow swamp 2 chs wide bears S 2.00 chs dist.
	Ascend
70.00	Top of ridge bears N and S.
	Descend abruptly 200 ft.
74.00	Foot of abrupt slope, descending gradually.
80.00	Set a limestone 13 x 10 x 6 ins 9 ins in the ground for cor of secs 27, 28, 33 and 34 marked with 1 notch on S. and 3 notches on E edge from which
	Pine 14 ins diam bears N 17⅔° E 84 lks dist. marked T36 S. R6 W. S. 27. B.T.
	Pine 12 ins diam bears S 78° E. 8 lks dist. marked T36, S. R6 W. S 34 B.T.
	Pine 12 ins diam bears S 83° W. 65 lks dist. marked T36 S. R6 W. S. 33 B.T.
	Pine 10 ins diam bears N 14½° W 65 lks dist. marked T36 S. R6 W. S. 28. B.T.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine aspen & cedar
	Mountainous land and dense undergrowth on 80.00 chs.
	Each bet secs 27 and 34
	Over mountainous land through dense undergrowth
	Descending
30.00	Dry wash in valley, bears N 70° E.
33.00	Spring and Hatches Shearing pens bears N 6.00 chs dist.
	Ascend
40.00	Top of ridge 75 ft high bears N and S.

Subdivisions of T.36 S. R.6 W. continued

Chains	
	Set a limestone 12 x 10 x 8 ins. 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which a pine 30 ins diam bears N 20½° E 147 lks dist marked 1/4 S. B.T.
	a pine 32 ins diam bears S 52½° E 133 lks dist marked 1/4 S. B.T.
	Descend
66.00	Spring branch 2 lks wide, dir S 70° E
	Ascend over broken land
80.00	Set a sandstone 12 x 12 x 8 ins 8 ins in the ground for cor of secs. 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
	Land mountainous
	Soil sandy loam and rocky
	2nd and 4th rate
	Timber a few scattering pines.
	Mountainous land and dense undergrowth on 80.00 chs.
	June 18: At this cor I set off 28° 26' N on the decl. arc and at 0 hr 00 m l.m.t observed the sun on the meridian the resulting lat. is 37° 39' N.

	East bet secs 26 and 35
	Over mountainous land through dense undergrowth and timber
	Ascend abruptly
27.00	Top of ridge brs N and S. descend
30.00	Gulch 100 ft deep dir S. ascend
35.00	Top of ridge brs N and S.
	Descend
40.00	Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for 1/4 sec. cor.

Subdivisions of T. 36 S. R. 6 W. continued

Chains.	
	marked 1/4 on N. face. and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
44.00	Gulch 100 ft deep drs S ascend
50.00	Top of ridge brs N and S. descend
60.00	Gulch drs S. 200 ft deep. ascend
65.00	Descend
70.00	Gulch drs S., ascend
77.00	Ridge brs N. and S.
80.00	Set a limestone 1½ x 12 x 6 ins 8 ins in the ground for cor. of secs 25, 26 35 and 36 marked with 1 notch on S and E edges and raise a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable. Land mountainous Soil stony with rate. Timber pine and cedar Dense undergrowth on 80.00 Ch Mountainous land on 80.00 chs.
	East bet secs 25 and 36 Over mountainous land through Timber and dense undergrowth. Descend abruptly.
11.00	Hollow - ascend drs S.
15.00	Ridge brs N and S.
18.00	Hollow ascend drs S.
22.00	Top of hill
28.00	Descend abruptly
40.00	Set a sandstone 14 x 8 x 5 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
59.00	Top of hill 300 ft high. Ascend over low hill leave timber

Subdivisions of T. 36 S. R. 6 W. continued

Chains	
71.00	Descending gradually
80.00	Intersect E. bdy of Tp. 3.19 chs
	N 0°12' E of cor to secs 25, 30, 31 and 36
	Set a sandstone 12 x 10 x 8 ins. 8 ins in the ground for closing cor to secs 25 and 36 marked CC on W. face with 1 groove on E and 5 grooves on W. faces, and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
	Blazing all markings on old cor. pertaining to secs 25 and 36.
	Land mountainous
	Soil stony & thin rate.
	Timber pine and cedar
	Mountainous land and dense undergrowth on 80.00 chs.
	June 18, 1897

June 19: At 8 hrs 00 m. a.m. L.M.T. Deck off 37°39' N on the lat. arc 23°27' N on the decl. arc; and determined a true meridian with the solar at the cor of secs 25, 26, 35 and 36

Then I ran

S 0°11' W. on a random line bet secs 35 and 36

40.00	Set temp ¼ sec cor.
81.80	Intersect S. bdy of Tp 1.87 chs
	S 88°35' E of old cor to secs 1, 2, 35 and 36
	Set a limestone 12 x 10 x 4 ins. 8 ins in the ground for closing cor. for secs 35 and 36 marked with CC on N face 1 groove on E and 5 grooves on W faces, and raised a mound of stone 2 ft base 1½ ft high on line N of cor. pits impracticable.

Chains	
	I destroy all marks on old cor pertaining to secs 35 and 36
	Thence Down
	N 0°11' E on a true line bet secs 35 and 36
	Over mountainous land through timber and dense undergrowth.
	Descend into gulch 75 ft deep drs S.E.
5.00	Bottom of gulch ascend
13.00	Top of ridge bears S.E. descend
22.00	Dry wash in bottom of canon drs S.E. ascend
30.00	Top of ridge brs E and W
41.80	Set a quartzite 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W. face, and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
42.00	Road bears E and W from Hatch Town to Hatches sheep shearing pens.
	Ascend over broken land
81.80	The cor of secs 25, 26, 35 and 36 which is about 400 feet above the 1/4 sec cor.
	Land mountainous
	Soil sandy and stony 2nd and 4th rate
	Timber, scattering pine and cedar.
	Mountainous land and dense undergrowth on 81.80 chs

	Thence Down
	N 0°11' E. bet secs 25 and 26
	Over mountainous land through timber and dense undergrowth.
	Descend abruptly into gulch
4.10	Bottom of gulch 150 ft deep drs N.E. ascend abruptly.

Subdivisions of T. 36 S. R. 6 W. continued

Chains	
18.50	Top of ridge 300 ft high trs N.E. and S.W. descend abruptly
24.00	Bottom of gulch trs N.E. ascend
29.00	Top of ridge trs N.E. and S.W.
30.00	Hollow ascend trs N.E.
37.00	Ridge trs N.E. & S.W.
40.00	Set a sandstone 12×8×8 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face and raised a mound of stone 3 ft base 1½ ft high W of cor. pits impracticable
45.00	Small gulch trs N.E. ascend abruptly
60.00	Top of ridge 300 ft high trs N.E. and S.W. descend abruptly
69.00	Small gulch trs N.E. ascend abruptly
75.00	Top of ridge trs N.E. and S.W. Descend abruptly
80.00	Set a sandstone 16×10×8 ins 12 ins in the ground for cor of secs 23, 24, 25 and 26 marked with two notches on S. and 1 notch on E. edges and raised a mound of stone 3 ft base 1½ ft high W of cor. pits impracticable
	Land mountainous.
	Soil stony loam
	Timber pine and cedar very scattering on N. ½ mile
	Dense undergrowth and mountainous land on 80.00 chs.

East on a random line bet secs 24 and 25

40.00	Set temp 1/4 sec cor
80.20	Intersect E bdy of Tp 360 chs

N 0°12' E cor of secs 19, 24, 25 and 30 as heretofore established

Set a sandstone 12×8×6 ins 8 ins in

Subdivision of T.36 S. R.6 W. continued.

Chains	
	The ground for closing cor. To secs 24 and 25 marked with C.C. on W. face, with 2 grooves on S. and 4 grooves on W. faces, and raise a mound of stone 2 ft. base 1½ ft high W. of cor. pits impracticable
	Adjoining all markings on old cor. pertaining to secs 24 and 25
	Thence Down
	West bet secs 24 and 25
	Over mountainous land through dense undergrowth
	Descending.
20.00	Descend abrupt the 20 c feet
33.00	Foot of abrupt descent over rolling land across valley
40.10	Set a conglomerate 12x10x10 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable
44.00	Ascend Road brs N.W. & S.E.
65.00	Top of ridge brs N.E. descend
72.00	Gulch 150 ft deep brs N.E. ascend
77.00	Top of ridge brs N.E. and S.W.
80.20	The cor. of secs 23, 24, 25 and 26
	Land mountainous
	Soil sandy and stony 2nd and 4th rate
	Timber a few pine and cedars.
	Mountainous land and dense undergrowth on 80.20 chs.
	North E. bet secs 23 and 24
	Over mountainous land through dense undergrowth
	Descend
13.50	Gulch brs N.E. over broken land.

Subdivision of 936 A. R.C.M. continued

Chains

11.00 Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for the SE cor. marked 1/4 on W. face and raise a mound of stone 3 ft base 1½ ft high W of cor. pits impracticable.

12.00 Ascend abruptly

13.00 Top of spur 250 ft high slopes E descend abruptly.

63.10 Road from Hatchtown to timber lands brs E and W.

64.50 Gulch with dry wash in bottom brs S 70° E. ascend abruptly.

78.00 Top of plateau 300 ft above gulch

80.00 Set a lava stone 14 x 8 x 6 ins. 10 ins in the ground for cor of secs 13, 14, 23 and 24, marked with 3 notches on S and 1 notch on E edges and raise a mound of stone 3 ft base 1½ ft high W of cor pits impracticable

Land mountainous

Soil stony & shrate

Timber scattering pinus ponderosa

Mountainous land and dense undergrowth on 80.00 chs.

June 14: At this cor I set off 20°27' N on the decl and at 1.00 S. on I observed the sun on the meridian the resulting lat is 37°10' N.

Thence Due

East on a random line bet secs 13 and 24

00.00 Set temp W cor.

00.00 Intersect E bdy of Tp 37 N. chs

NOTE If the cor to secs 13, 18, 19 and 24 as heretofore described.

Subdivisions of 136 P. P. G. T. - continued.

Chains	
	Set a sandstone 12 x 12 x 4 ins 8 ins in the ground for closing cor to secs 13 and 24 marked C.P on W face with 3 grooves on N and S faces and raise a mound of stone 2 ft. base 1½ ft high N of cor. pits impracticable. Obliterating all markings of the old cor. pertaining to secs 13 and 24
	Thence Drain
	West bet secs 13 and 24
	Over mountainous land through dense undergrowth
	Ascend
30.00	Top of hill. descend into gulch
35.50	Bottom of gulch 80 ft deep dis N 20° E. ascend abruptly.
40.12	Set a sandstone 14 x 8 x 8 ins 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
	Descend from ridge brs N.E. and S.W.
61.00	Bottom of valley dis N 15 E.
	ascend
80.24	The cor of secs 13, 14, 23 and 24.
	Land mountainous
	Rock strong 4th rate
	No timber.
	Dense undergrowth - and mountainous land on 80.24 chs.
	N. 0° 11' E bet secs 13 and 14
	Over mountainous land through dense undergrowth ascending
12.00	Ascend abruptly
14.50	Road brs E and W.
20.00	Top of hill 200 ft high

Subdivisions of T.36.S. R.6W. continued

Chains	
	Descend abruptly.
29.00	Hollow. Ascend
37.00	Descend enter yellow pine timber
40.00	Set a quartzite 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W. face and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
51.00	Foot of hill leave timber
55.00	Road from Hatchtown to the grazing lands bis E. and W.
55.50	Spring branch 3 lks wide bis N 80° E.
	Ascend
80.00	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for cor of secs 11, 12, 13 and 14 marked with 4 notches on S. and 1 notch on E edges and raised a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.
	Land mountainous
	Soil stony 4th rate.
	Timber. pine
	Mountainous land and dense undergrowth on 80.00 chs.

East on a random line bet secs 12 and 13

40.00	Set temp 1/4 sec. cor.
80.46	Intersect E. bdy of Tp. 3.80 chs N 0° 12' E of old cor of secs 7, 12, 13 and 18 as heretofore described.
	Set volcanic rock 12 x 8 x 8 ins 8 ins in the ground for closing cor to secs 12 and 13 marked CP on W. face with 4 grooves on S. and 2 grooves on N. faces and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable

Subdivisions of T.36 S. R.6 W. continued

Chains	
	I destroy all markings on old corner pertaining to secs 12 and 13.
	Thence I run
	West bet secs 12 and 13
	Over mountainous land through dense undergrowth
	Descend into large canon
	200 ft deep dir S.E.
5.00	Across bottom of canon
35.00	Road brs N.W and S.E.
39.00	Road brs N.W and S.E both roads runs from Hatch Town to the grazing lands.
40.23	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft base 1½ ft high. N. of cor. pits impracticable. Ascend
73.00	Top of hill descend bears E & W
79.00	Dry wash dir S.E. ascend
80.46	The cor of secs 11, 12, 13 and 14
	Land mountainous and rolling
	Soil stony with rate
	No timber
	Mountainous land or dense undergrowth on 80.46 chs.
	June 19-1897

June 21: At 8h 00m a.m. l.m.t. I set of 37°41' on the lat. and 73°27' W on the decl. and determined a true meridian with the solar at the cor of secs 11, 12, 13 and 14. Thence I run

	N 0°11' E bet secs 11 and 12
	Over mountainous land through dense undergrowth and timber
.50	Dry wash dir S.E. ascend abruptly
14.00	Top of hill 250 ft high descend
40.00	Set a limestone 14 x 14 x 12 ins 10 ins

Subdivisions of T.36 S. R.6 W. continued

Chains	
	in the ground for 1/4 sec. cor. marked 1/4 on N face from which
	Ap. tree 15 mis diam. bears S. 87½° E. 156 lks dist. marked 1/4 S.B.T.
	Ap. tree 15 mis diam. bears N. 21° W. 143 lks dist. marked 1/4 S.B.T.
48.50	Dry wash dis S. E.
	Ascend
77.00	Descend
80.00	Set a sandstone 12 x 10 x 8 mis 8 mis in the ground for cor. of secs 1. 2. 11 and 12 marked with 5 notches on S. and 1 notch on E edges and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable. Land mountainous. Soil stony sh rate Timber pine and cedar Mountainous land and dense undergrowth on 80.00 chs.
	East on a random line bet secs 1 and 12
40.00	Set temp. 1/4 sec. cor.
80.36	Intersect E bdy of Tp 3.66 chs
	No 12 E of old cor to secs 1. 6. 7 and 12 as hereto fore described
	" Set a volcanic stone 14 x 8 x 6 mis 10 mis in the ground for closing cor to secs 1 and 12. marked C.C. on N. face with 5 grooves on the S and 1 groove on N faces and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
	Destroy all markings of old cors pertaining to secs 1 and 12
	Thence Over
	West bet secs 1 and 12
	Over mountainous land though

Subdivisions of T. 36. S. R. 6. W. continued.

Chains	
	dense undergrowth
	descending
27.00	cross small ravine drs S. E. ascend
40.18	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable
70.00	Top of ridge trs N. W. and S. E. descend.
80.00	Bottom of ravine drs S. E.
80.36	The cor of secs 1, 2, 11 and 12
	Land mountainous.
	Soil stony ultirate
	No timber.
	Mountainous land and dense undergrowth on 80.36 chs.

	N 0° 11' E on a true line bet secs 1 and 2
	Over mountainous land through dense undergrowth.
	descend
1.00	Ravine drs S. E ascend
7.00	Top of bench, over ridges and hollows N. W. and S. E.
40.00	Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
79.65	Intersect N bdy of Tp. 12.13 chs E of the standard cor to secs 35 and 36, Sandstone 19 x 16 x 15 set as described by Sur Gen
	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for closing cor to secs 1 and 2 marked C.C on S. face with 1 groove on E and 5 grooves on W faces, and raise

Chains a mound of stone 2 ft base 1½ ft high S. of cor. pits impracticable. Land mountainous and broken. Soil stony 4th rate.
No Timber
Mountainous land and dense undergrowth on 79.65 chs.
June 21.

June 22: At 7 h 00 m a.m. l.m.t. Took off 57 39' on the lab. and 28°28' N on the decl. arc and determined a true meridian with the solar at the cor of secs 26, 27, 34 and 35
Thence Down /
S 0° 11' W on a random line bet secs 34 and 35
40.00 Set temp 1/4 sec. cor.
19.24 Intersect S. bdy of T.p 1.53 chs S 88°25' E of the cor of secs 2, 3, 34 and 35
Set a limestone 12 x 10 x 6 ins 8 ins in the ground for closing cor to secs 34 and 35. marked C.P. on N. face with 2 grooves on E and 4 grooves on W. faces from which
Pine 12 ins diam bears N 6° E 38 lks dist. marked C.P. T36S. R6W. S 35-B.T.
Pine 12 ins diam bears N 17⅔° W. 32 lks dist. marked C.P. T36S. R6W. S 34. B.T.
Identify all markings of old cor pertaining to secs 34 and 35.
Thence Down
N 0° 11' E bet secs 34 and 35
Over mountainous land thickly dense undergrowth and timber. Ascending
39.20 Set sandstone 12 x 8 x 8 ins 6 ins in

Subdivision of 936 A.P.C.W. continued

Chains	
	The ground for 14 sec cor. marked 14 on N. face and raised a mound of stone 2 ft base 1½ ft high N of sec. pits impracticable.
	Top of ridge bears E and W
17.00	Descend abruptly
63.00	Ravine bears E.
70.00	Road from Natchtown to Shearing pens. bears N.W. and S.E.
71.15	Spring branch 3 lks wide dis S.E.
	ascend abruptly.
79.24	The cor of secs 26. 27. 34 and 35.
	Land mountainous.
	Coal showing 4 ft vein.
	Timber pine and cedar.
	Mountainous land and dense undergrowth on 79.24 chs.

	Meas E. bet secs 26 and 27
	Cross mountainous land through dense undergrowth.
	Ascending
16.00	Top of open slope S.W.
17.00	Cross head of ravine bears S.W.
	ascend abruptly
30.00	Top of hill 100 feet above cañon.
40.00	Set a candelabra 16×10×8 ins 12 ins in the ground for 14 sec cor marked 14 on N face, and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
45.00	Descend abruptly
50.00	Cross bears N70°E ascend abruptly
60.00	Ridge bears N.E and S.W. descend
80.00	Set a sandstone 12×10×4 ins 8 ins in the ground for cor of secs 22. 23. 26 and 27 marked with 2 notches on S. and E edges from which

Subdivisions of T.36.S.R.6.W. continued

Chain.	A pine 8 in diam bears N87°E 178 lks dist. marked T.36.S.R6.W. S.23 B.T.
	A pine 28 in diam bears S21°E 106 lks dist. marked T.36.S.R6.W. S.26 B.T.
	A pine 24 in diam bears S18½° W 77 lks dist. marked T.36.S.R6.W. S.27 B.T.
	A pine 10 in diam bears N29½° W 53 lks dist. marked T.36.S.R6.W. S.22 B.T.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine and cedar scattering.
	Mountainous land and dense undergrowth on 80.00 chs.
	Each on a random line bet. secs 23 and 26.
40.00	Set temp 1/4 sec. cor.
80.06	Intersect N and S. line 20 lks W of cor of secs 23, 24, 25 and 26
	Then by Drum
	N 89°51' W on a true line bet secs 23 and 26
	Over mountainous land through scattering timber and dense undergrowth
	Descend
15.00	Bottom of gulch dir N65°E ascend
30.00	Top of ridge 350 ft above gulch descend
40.03	Set a sandstone 12 x 8 x 8 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	A pine 30 ins diam bears N48°E 57 lks dist. marked 1/4 S. B.T.
	A pine 30 ins diam bears S81½° W. 100 lks dist. marked 1/4 S. B.T.
41.00	Bottom of gulch dir N65°E ascend abrupt bluff
70.00	Top of ridge 350 ft above bottom of canon descend

here N.E.

Subdivisions of 9.36.S. R6.W. continued

Chains	
75.00	Bottom of small gulch dis N.E. ascend
80.06	The cor of secs 22, 23, 26 and 27
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar.
	Mountainous land and dense undergrowth on 80.06 chs.
	N 0°11' E bet secs 22 and 23
	Over mountainous land through dense undergrowth and scattering timber.
	descend
2.00	Small gulch dis N E ascend
11.00	Top of ridge 200 ft above gulch bs N.E
30.00	Gulch dis N.E. ascend
40.00	Set a sandstone 14×14×4 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Apple 30" diam bears S. 41° E. 127 lks dist. marked 1/4 S. B.T.
	Apple 30" diam bears S. 66° W 24 lks dist. marked 1/4 S. B.T.
44.00	Road bears E and W. ascend abruptly.
56.00	Top of hill 300 ft above 1/4 sec. cor.
61.50	Road to grazing lands bs E and W
72.00	Descend abruptly
80.00	Set a sandstone 18×14×4 ins 14 ins in the ground for cor of secs 14, 15, 22 and 23 marked with 3 notches on S. and 2 notches on E edges and raised a mound of stone 2 ft base 1½ ft high
	W 1/4 cor. pits impracticable.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine and cedar.
	Mountainous land and dense undergrowth on 80.00 chs.

Subdivisions of T. 36 S. R. 6 W. continued

Chains	
	S. 89°51' E on a random line bet. secs 14 and 23.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. true lines
	S of cor of secs 13, 14, 23 and 24
	Thence S. run
	N 89°54' W on a true line bet. secs 14 and 23.
	Over mountainous land through dense undergrowth and scattering timber descending
40.00	Set a volcanic rock 14 x 12 x 6 ins 10 ins in the ground for 1/4 sec cor.
	marked 1/4 on N. face from which
	A pine 12 ins diam bears N 50° E 127 lks dist.
	marked 1/4 S. B. T.
	No other trees within limits
	Erect a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
80.00	The cor. of secs 14, 15, 22 and 23.
	Land mountainous
	Soil stony white rate.
	Timber pine.
	Mountainous land and dense undergrowth on 84.00 chs.

June 22. At this cor. Deck of 23°27' W on the decl. arc; and at 0h 00m. l.m.t. observe the sun on the meridian the resulting lat. is 37°40' N.

	N 0°11' E bet. secs 14 and 15
	Over mountainous land through dense undergrowth and scattering timber, descending
16.00	Log fence bro E and W.
24.00	Log fence bro E and W.

Subdivision of T.36.S. R.6.W. continued

Chains.	
	Small spring 70 lks W of line
29.00	Log fence brs E and W.
40.00	Set a sandstone 15×8×8 ins. 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face, and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
43.80	Road to grazing lands bears E and W.
44.10	Dry wash drs E
	Ascend out of valley
80.00	Set a volcanic stone 14×10×6 ins 10 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
	Open 12 ins drain bears N87°E 150 lks dist.
	Marked T.36.S. R.6.W. B.11, B.T.
	No other trees within limits & raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
	Land mountainous
	Soil stony and gravelly with scattered
	Dense undergrowth and mountainous land on 8000 chs
	S 89°54' E on a random line bet secs 11 and 14
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 12 lks W of cor of secs 11, 12, 13 and 14
	Thence Drain:
	N 89°59' W on a true line bet secs 11 and 14
	Over mountainous land through dense undergrowth and scattering timber.
	Ascending.
6.00	Ridge descend brs N.W. and S.E.
11.00	Ravine ascend drs S.E.
17.00	Enter timber
26.30	Cliffs. bears S.E.
30.00	Descend leave timber

Subdivision of T.36.S. R.6.W. continued

Chains

3900 Ravine dry S.E. ascend

4000 Set a volcanic stone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable. Descend

4400 Ravine dry S.E. ascend

5300 Descend over small ridges and hollows

— 8000 The cor of secs 10, 11, 14 and 15

Land mountainous

Soil stony 4th rate.

Timber pine

Mountainous land and dense undergrowth on 80.00 chs.

No 11 E bet secs 10 and 11

Over rolling land through dense undergrowth

Descending.

4100 Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft base 1½ ft high W of cor. pit impracticable.

7100 Descend

— 8000 Set a sandstone 12 x 8 x 6 ins 9 ins in the ground for cor. of secs 2, 3, 10 and 11. marked with 5 notches on S and 2 notches on E edge and raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.

Land rolling and mountainous

Soil stony 4th rate

No timber.

Dense undergrowth on 80.00 chs

Subdivision of T.36, S. R.6.W. continued

Chains.	
	S 89°59' E on a random line bet sec 2 and 11
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N and S line at cor of secs 1, 2, 11 and 12
	Thence S run N 89°59' W on a true line bet secs 2 and 11
	Over mountainous land through dense undergrowth and scattering timber.
10.00	Ridge bes N.W. and S.E. descend
25.00	Ascend enter timber
28.00	Descend
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which
	A pine 16 ins diam bears N 43° E 31 lks dist. marked 1/4 S.B.T.
	A pine 18 ins diam bears S 29° W 107 lks dist marked 1/4 S.B.T.
	Leave timber.
50.00	Dry wash drs S.E.
80.00	The cor. of secs 2, 3, 10 and 11
	Land mountainous.
	Quite stony 4th rate
	Timber pine.
	Mountainous land and dense undergrowth - on 80.00 chs.

	N 0°11' E on a closing line bet secs 2 and 3
	Over mountainous land through dense undergrowth.
17.00	Descend
34.00	Dry wash drs S.E.
40.00	Set a sandstone 16 x 10 x 8 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base

Subdivisions of T. 36 S. R. 6 W. continued.

Chains	
	1½ ft high W. of cor. pits impracticable.
	Ascend
60.00	Top of hill descend
79.78	Intersect N. bdy of Tp. 12.10 chs E of standard cor to secs 34 and 35 Sandstone 16 x 8 x 6 ins set as described by Sur Gen. Set a lavastone 15 x 12 x 8 ins 10 ins in the ground for closing cor to secs 2 and 3 marked C.C on S. face with 2 grooves on E and 4 grooves on W faces, and raised a mound of stone 2 ft base 1½ ft high S of cor. pits impracticable. Land mountainous. Soil stony 4th rate. No timber. Mountainous land and dense undergrowth on 79.78 chs.
	June 22 1897

June 23: At 8h 00m a.m. l.m.t. Took off 37°39' N on the lat. arc: 23°27' W on the decl arc. and determined a true meridian with the solar at the cor. of secs 27, 28, 33 and 34.

Thence Run

S 0°10' W on a random line bet secs 33 and 34

40.00	Set temp ¼ sec cor.
80.00	Intersect S. bdy of Tp. 12 lks E of the cor of secs 3, 4, 33 and 34 which is a volcanic rock 10 x 8 x 4 ins above firmly set and marked and witnessed as described by the surveyor general.

Thence Run

N 0°15' E on a true line bet.

Subdivisions of T36 S. R6 W. continued

Chains	
	Secs 33 and 34
	Over mountainous land through
	dense undergrowth
	Ascending abruptly
36.00	Top of ridge 400 ft above cor. bear
	N.E. and N. descend abruptly
40.00	Set a limestone 12 x 8 x 8 ins 8 ins
	in the ground for 1/4 sec cor. marked
	1/4 on N. face and raised a mound
	of stone 2 ft base 1½ ft high N of
	cor. pits impracticable.
69.50	Dry wash in bottom of canon
	dir N.E. ascend abruptly.
74.00	Enter heavy timber.
80.00	The cor of secs 27, 28, 33 and 34
	Land mountainous
	Soil stony 4th rate
	Timber pine and cedar.
	Mountainous land and dense
	undergrowth on 80.00 chs
	Heavily timbered on 60 chs.

	Thence Drain
	N 0° 10' E bet secs 27 and 28
	Over rolling mountainous
	land through scattering timber.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in
	the ground for 1/4 sec. cor. marked
	1/4 on N face and raised a mound
	of stone 2 ft. base 1½ ft. high N. of
	cor. pits impracticable.
80.00	Set a sandstone 12 x 10 x 8 ins
	8 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
	Pine 10 ins diam bears N 51½° E 73 lks dist.
	marked T36 S. R6 W. S 22 B.T.
	no other trees within limits I
	raise a mound of stone 2 ft base
	1½ ft high N of cor. pit impracticable

Subdivision of T36 A R6 W. continued

Chains	
	Land rolling and mountainous
	Soil stony 4th rate
	Timber pine
	Dense undergrowth on 8000 chs
	East on a random line bet secs 22 and 27
40.00	Set temp 1/4 sec cor.
79.90	Intersect N and S line 20 lks N of cor of secs 22, 23, 26 and 27
	Thence Down
	N 89° 57' W on a true line bet secs 22 and 27
	Over rolling land through dense undergrowth and rattling timber
39.95	Set a sandstone 13 x 8 x 6 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Open 30 in diam bears S. 64° E 107 lks dist. marked 1/4 B. B. T.
	Open 16 in diam bears N 20° W. 32 lks dist. marked 1/4 B. B. T.
79.90	The cor of secs 21, 22, 27 and 28
	Land rolling
	Soil stony 4th rate
	Timber scattering pine
	Dense undergrowth on 7990 chs
	N 0° 10' E bet secs 21 and 27
	Over mountainous land through dense undergrowth and scattering timber
	ascend
12.00	over rolling land
30.00	descend
40.00	Set a sandstone 13 x 8 x 6 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Open 12 in diam bears N 16° E 101 lks dist

Subdivisions of T.36.S. R.6.W. continued:

Chains	
	marked 1/4 S.B.T.
	Pine 14 ins diam bears S.68¾° W. 189 lks dist.
	marked 1/4 S.B.T.
72.00	Enter rolling land
75.00	Cross old road brs E. and W.
80.00	Set quartzite rock 12 x 10 x 8 ins 8 ins in the ground for cor. of secs 15, 16, 21 and 22 marked.
	36 S. on N.E
	6 W. on S.E. faces with 3 notches on S. and E. edges and raised a mound of stone - 2 ft base 1½ ft high. W. of cor. pits impracticable
	Land mountainous
	Soil stony 4th rate
	Timber pine
	Mountainous land and dense undergrowth - on 80.00 Chs
	S. 89°51' E on a random line bet secs 15 and 22
40.00	Set temp. 1/4 sec cor.
80.06	Intersect N. and S. line at cor of secs 14, 15, 22 and 23
	Thence I run
	N 89°51' W on a true line bet secs 15 and 22
	Over mountainous land through dense undergrowth - and scattering timber.
40.03	Set a quartzite 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	A pine 10 ins diam bears S. 69° E 78 lks dist.
	marked 1/4 S.B.T.
	A pine 24 ins diam bears N. 3° W. 114 lks dist.
	marked 1/4 S.B.T.
	Through dense timber
57.00	Leave dense timber

Subdivisions of T. 36 S. R. 6 W. continued

Chains.	
18.00	Pass and enter dense timber
70.00	Leave dense timber ascend
73.00	Descend
80.06	The cor of secs 15, 16, 21 and 22
	Land mountainous
	Soil stony rich
	Timber pine &
	Heavily timbered on 22.97 chs
	Mountainous land or dense undergrowth on 80.06 chs.

June 23. At the cor Sect 14 23°26' N on the declination arc. and at 6 h. 0 m. 0 s. observe the sun on the meridian the resulting lat is 37°40' N

N 0°10' E bet secs 15 and 16
Over rolling land through dense undergrowth descending
40.00 Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
44.75 Cross from Hatchetown to grazing land bears N 10° W.
53.00 Encounter dense 18° E. ascend
70.00 Set sandstone 12 x 8 x 7 ins 8 ins in the ground for cor of secs 9 10 15 and 16. marked with 4 notches on S. and 3 notches on E. angle and raised a mound of stone 2 ft base 1½ ft high N. for pits impracticable.
Hard rolling
Soil stony and gravelly Timber

Subdivision of 9.30 A. R. M. continued

Chains	No timber
	Trees undergrowth on 8.00 chs
	S 89°31' E on a random line bet secs 11 and 15
40.00	Set temp meas cor
80.10	Intersect N and S line between secs 10, 11, 14 and 15
	Thence Drain
	N. 89°31' W. on a true line bet secs 10 and 15
	Over mountainous land through dense undergrowth and timber ascending.
5.00	Over rough broken land
40.05	Set a sandstone 3x9x6 in quiver in the ground for 1/4 sec cor, marked 1/4 on N. face from which
	Open wing drain bears N. 24° E. 12 links distant marked 1/4 A. B. S.
	Open wing drain bears S. 19½° W. 46 links distant marked 1/4 A. B. S.
	Proceed
16.00	Over rolling land through dense undergrowth
80.00	The cor of secs 9 & 10, 15 and 16
	Land mountainous and rolling but along W. bnd
	Timber pine and oak
	Mountainous land heavily timbered and dense undergrowth on 8.00 chs.
	N. 89° E. bet secs 9 and 10
	Over rolling land through dense undergrowth
16.00	Set a limestone 12x8x4 in. cor in the ground for 1/4 sec cor marked 1/4 on W. face and

Chains.	
	raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
50.00	Ascend abruptly through timber.
80.00	Set a limestone 12 x 8 x 8 ins 8 ins in the ground for cor. of secs 3, 4, 9 and 10 marked with 3 notches on S. and 3 notches on E edges and raised a mound of stone 2 ft. base 1½ ft high W. of cor. pits impracticable.
	Land rolling and mountainous. Soil gravely and stony 4th-rate. Timber pine and cedar. Mountainous land on 30.00 chs. Dense undergrowth on 80.00 chs.
	S 89°51' E on a random line bet secs 3 and 10
40.00	Set temp 1/4 sec. cor.
80.08	Intersect N. and S. line 16 lks S. of cor of secs 2, 3, 10 and 11
	Thence Drun
	N 89°58' W. on a true line bet secs 3 and 10
	Over rolling land through dense undergrowth.
	Ascending.
40.04	Set a sandstone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor pits impracticable.
80.08	The cor of secs 3, 4, 9 and 10.
	Land rolling
	Soil stony 4th rate
	No timber
	Dense undergrowth on 80.08 chs

Subdivisions of T. 31 N. R. 17 W. continued

Chains.

No. 10 E on a true line bet secs 3 and 4
Over mountainous land descending through dense undergrowth.
40.00 Set sandstone 12 x 4 x 8 ins. pits in the ground for 1/4 sec. cor. marked 1/4 on N. face, and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
79.90 Intersect N. bdy of Tp 12.20 chs E of the standard cor. of secs 33 and 34 Sand stone 16 x 12 x 6 ins set as described by section.
Set a volcanic stone 12 x 6 x 6 ins pits in the ground for closing cor. to secs 3 and 4. marked C.C. on S. face with 3 grooves on E and N. faces and raised a mound of stone 2 ft base 1½ ft high S. of cor. pits impracticable.
Land mountainous and rolling soil stony sch 1 ale.
No line trees.
Have undergone on 79.90 chs
June 2 3. 1897

June 24th 97 At 8 h 00 m. a.m. from I. Dey of 37°39' N on the lat. and 23°25' N on the decl. arc and observed a true meridian with the solar at the cor of secs 28, 29, 32 and 33.
Thence run
2009' on a random line bet. secs 32 and 33
40.00 Set temp 1/4 sec. cor.
80.00 Intersect S. Bdy of Tp. 20 lks N. of cor of secs 4, 5, 32 and 33 which is a Sandstone 12 x 6 x 8 ins above

Subdivisions of T36 N. R6 W. continued

Chains.	
	grounds marked and witnessed as described by the surveyor general.
	Thence Down
	N. on a true line bet secs 32 and 33
	Over mountainous land, through dense undergrowth.
	Ascending abruptly.
35.00	Top of ridge 400 ft above cor. to S. E and N. descend abruptly, inter timber.
40.00	Set a limestone 12 x 8 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Open 20 ins diam bears S. 20½° E. 14 lks dist. marked 1/4 S. B.T.
	Open 18 ins diam bears N. 60¾° W. 38 lks dist. marked 1/4 S. B.T.
43.00	Bottom of canon 200 ft deep drs N. 70° E. ascend abruptly, and leave timber.
58.00	Enter - heavy pine timber.
70.00	Top of bench
80.00	The cor of secs 28, 29, 32 and 33
	Land mountainous.
	Soil stony sh rate.
	Timber of all kinds suitable for lumber.
	Mountainous land and dense undergrowth - on 80.00 chs
	Heavily timbered on 22.00 chs.
	Thence Down
	N. 0°09' E bet secs 28 and 29
	Over mountainous land through dense undergrowth and timber
	Descend
9.00	Bottom of gulch drs N. E. ascend
20.00	Ridge bs N. E and S. W. descend
33.00	Gulch drs N. E ascend

Subdivisions of T. 36 S. R. 6 W. continued

Chains	
40.00	Set limestone 12 x 8 x 7 ins 8 ins in the ground. for 1/4 sec cor. marked 1/4 on W. face, and raised a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.
	Leave timber
50.00	Top of hill enter timber descend
71.00	Ascend. leave timber.
76.00	Top of bench.
80.00	Set a limestone 13 x 8 x 6 ins qui in the ground for cor of secs 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.
	Land mountainous.
	Soil stony 4th rate.
	Timber yellow pine suitable for lumber.
	Mountainous land and dense undergrowth on 80.00 chs
	Heavily timbered on 61.00 chs.
	East on a random line bet secs 21 and 28.
40.00	Set temp 1/4 sec cor.
80.16	Intersect N. and S. line at cor of secs 21, 22, 27 and 28
	Thence Drum
	West on a true line bet secs 21 and 28
	Over mountainous land through dense undergrowth and scattering timber
	Descend
5.00	Bottom of gulch dis N. E. ascend
16.00	Ridge bet N.E. and S.W. descend gradually.

Chains.	
49.08	Set a sandstone 12 x 12 x 18 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which
	Open sandstone bears N 70° E 169 lks dist. marked 1/4 B.T.
	Open sandstone bears S 56° E. 77 lks dist marked 1/4 B.T.
55.00	Top of ridge bears N.E. and N.W. descend
57.50	Pass in N.E. a small Spruce tree
66.00	Top of hill overlooking lake
80.16	The line of secs 20, 21, 28 and 29 land mountainous and rolling. Soil stony not rich. Timber spruce fir suitable for timber. Mountainous land and dense underbrush on 80.16 chs
	N 0°-9' E bet secs 20 and 21 Over mountainous land & through dense underbrush and rolling timber.
	Descending
30.00	Valley across drain E
40.00	Ridge bears E and W.
	Set a limestone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which
	Cedar sandstone bears N 17° E. 55 lks dist. marked 1/4 B.T.
	Spruce sandstone bears N 53½ W. 50 lks dist. marked 1/4 B.T.
	descend
60.00	Enter flat bearing timber.
80.00	Set a volcanic rock 14 x 10 x 8 ins 10 ins in the ground for cor of secs 16, 17, 20 and 21 marked with 3 notches on S and 4 notches on E edges and raised a mound

Subdivision of T.36 S. R.6 W. continued

Chains.	
	of stone 2 ft base 1½ ft high N. of cor. pits impracticable. Land mountainous and rolling Soil gravely and stony 2nd and 4th rate Timber pine and cedar. Mountainous land on 6000 chs Dense undergrowth on 8000 chs.
	Each on a random line bet secs 16 and 21
40.00	Set temp 14 sec. cor.
80.00	Intersect N and S. line at the cor. of secs 15, 16, 21 and 22
	Thence Drun
	West on a true line bet secs 16 and 21
	Over ridges and hollows through dense undergrowth
40.00	Set a volcane rock 12x8x8 ins 8 ins in the ground for 14 sec. cor. marked 14 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
80.00	The cor. of secs 16, 17, 20 and 21 Land rolling or broken Soil stony and gravely 2nd and 4th rate No timber Dense undergrowth on 8000 chs.
	June 24: At this cor. I set off 23°25' N on the dec. arc, and at 0h.00 m. l. m. t observe the sun on the meridian the resulting lat is 37°40' N.

Chains	
	N.10°09' E. bet. secs 16 and 17.
	Over mountainous land through dense undergrowth and scattering timber.
	Course
57.00	Ridge brs E. and W. descends.
25.00	Road brs E. and W.
40.00	Set a limestone 18×12×6 ins 14 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which
	Ash 14 ins diam bears N.26½° E. 22 lks dist. marked 1/4 S. B.T.
	Ash 22 ins diam bears S.19° W. 50 lks dist, marked 1/4 S. B.T.
44.00	Road from Cameron Dam Wisconsin to Hatch town brs N.E. and S.W.
54.50	Enter flat. Leave timber
55.00	Road from Hatch town to Pauquitch Lake brs E. and W.
59.80	Road from Hatch town to Pauquitch Lake brs E. and W.
61.70	Leave flat. ascend abruptly.
72.00	Bay wash due Easterly.
80.00	Set a limestone 14×6×6 ins 10 ins in the ground for cor of secs 8, 9, 16 and 17 marked with 4 notches on S. and 4 notches on E. edges, and raised a mound of stone 2 ft base 1½ ft high. W. of cor. pits impracticable.
	Land mountainous and rolling. Soil stony and sandy loam.
	Timber yellow pine suitable for lumber.
	Round quarters heavily timbered or dense undergrowth on 80.00 chs
	East on a random line bet. secs 9 and 16

Subdivision of T. 36 S. R. 6 W. continued

Chains	
40.00	Set temp 1/4 sec cor
80.00	Intersect N. and S. lines at the cor of secs 9, 10, 15 and 16
	Here is Drum
	West on a true line bet secs 9 and 16
	Over ridges and gullys, through dense undergrowth and timber ascending
20.00	Descend
40.00	Set a sandstone 12 x 8 x 7 ins in 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Pine 8 in diam bears S 80° E 70 lks dist. marked 1/4 S. B. T.
	Pine 8 in diam bears S 34 2/3° W 16 lks dist. marked 1/4 S. B. T.
46.00	Leave timber into flat.
52.00	Dry wash trs south.
61.00	Road from Cameron's mill to Tanguitch bts N. and S.
80.00	The cor of secs 8, 9, 16 and 17
	Land mountainous and rolling. Soil sandy loam and stony and 4th rate.
	Timber pine and cedar.
	Dense undergrowth on 80.00 chs
	Heavily timbered and mountainous on 46.00 chs

	N. 0°09' E bet secs 8 and 9
	Over mountainous land through dense undergrowth
8.00	Ascend abruptly
32.00	Top of ridge bts E and W descend
40.00	Set a lava stone 14 x 8 x 4 ins 18 ins in the ground for 1/4 sec cor.

Subdivisions of T36 S. R6 W. continued

Chains.	
	marked 14 on N. face and mound of stones 2 ft base 1½ ft high N. of cor. pits impracticable.
62.00	Enter heavy timber.
65.00	Ascend abruptly.
80.00	Set a sandstone 13x7x6 ins 9 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 north.
	Reference meridian bears N 61½° E 51 lks dist. marked T36 S R6 W. S 4, B. T.
	Spruce 8 ins diam bears S 17° E 16 lks dist. marked T36 S R6 W. S 9, B. T.
	Pine 14 ins diam bears S. 59° W. 31 lks dist. marked T36 S R6 W. S 8, B. T.
	Spruce meridian bears N. 25 ⅓° W. 48 lks dist. marked T36 S R6 W. S 5, B. T.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine spruce cedar.
	Mountainous land and dense undergrowth on 80.00 chs.
	Heavily timbered on 1800 chs.
	East on a random line bet secs 4 and 9.
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S line at cor of secs 3, 4, 9 and 10.
	Thence Down
	West on a true line bet secs 4 and 9.
	Over mountainous land through dense undergrowth and timber.
	Descend abruptly.
31.60	Road from Cannon Mill to Tangiulch bys N. and S.
32.00	Dry wash dir S. ascending
40.00	Set a sandstone 12x10 x8 ins 8 ins in

Subdivisions of T.36 S. R.6 W. continued

Chains.	
	the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Pine 16 in. diam. bears N 61½° E 84 lks dist. marked 1/4 S.B.T.
	Pine 18 in. diam. bears S. 36½° E 45 lks dist. marked 1/4 S.B.T.
	Ascend abruptly
80.00	The cor. of secs 4, 5, 8 and 9
	Land mountainous.
	Soil stony 4th rate.
	Timber pine and cedar.
	Mountainous land and dense undergrowth - on 80.00 lks.
	N 0°09' E on a true line bet secs 4 and 5
	Over mountainous land through heavy timber and dense undergrowth.
	Ascending abruptly
95.0	Top of mountain ridge 600 ft above valley, descending abruptly, brs East & W.
30.00	Bottom of valley drs Easterly.
	Ascend
36.00	Ridge brs E and W. descend
40.00	Set lava stone 12 x 12 x 10 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Pine 24 in. diam. bears N 35° E. 63 lks dist. marked 1/4 S.B.T.
	Pine 30 in. diam. bears N 37¾° W. 52 lks dist. marked 1/4 S.B.T.
48.00	Small canon drs N. E. ascend
60.00	Descend
76.50	Bottom of canon drs E
79.90	Intersect N. bdy of Tp 12.07 chs E of the standard cor to secs 33 and 34 volcanic rock 15 x 12 x 12 as directed by surveyor.
	Set a lava stone 18 x 8 x 8 ins 15 ins in the ground for closing cor to secs 4 and 5. marked C.C. on S.

Subdivisions of T36, S.R.6.W. continued

Chain

face with 4 grooves on E and 2 grooves on N. faces from which
Pine 24 inches diam. bears S.76° E. 101 lks dist.
marked C.C. T36.S.R6.W. S.4 B.T.
Pine 18 inches diam. bears S.65° W. 237 lks dist.
marked C.C. T36.S.R6.W. S.5. B.T.
Land mountainous
Soil stony, rich rate.
Timber pine, mahogany, cedar
Mountainous land and dense under-growth on 79.90 chs.
June 24 1897

June 25: At 7 h 00 m a.m. l.m.t.
I set off 37°39' N on the lat arc, 23°24' N on the declare and determined a true meridian with the solar at the cor of secs 29, 30, 31 and 32
Thence I run
S 8°09' W. on a random line
Set secs 31 and 32
40.00 Set temp 1/4 sec cor.
80.00 Intersect S. Bdy of Tp 29 lks N. of cor of secs 5, 6, 31 and 32
Thence I run
N 0°03' W on a true line Set secs 31 and 32
Over mountainous land through dense undergrowth.
Ascend abruptly
8.00 Top of ridge bro N 70° E and S 70° W.
Descend through scalling timber
40.00 Set sandstone 12x10x10 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
Pine 30 ins diam bears N 88½° W 149 lks dist.
marked 1/4 S.B.T.
No other trees within limits
Drain a mound of stone 2 ft

Subdivisions of T36 N. R6 W. continued

Chains	base 1½ ft high N. of cor. pits impracticable
44.00	Bottom of gulch 200 ft deep dis Easterly ascend
80.00	The cor of secs 29, 30, 31 and 32 land mountainous. Soil stony 4th rate. Timber yellow pine Mountainous land and dense undergrowth on 8000 chs.
	Thence Drum N 0°09' E. bet secs 29 and 30 Over rolling land through dense undergrowth and scattering pines.
40.00	Set sandstone 13 x 8 x 5 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable. Descend abruptly
80.00	Foot of hill 200 ft high Set a sandstone 4 x 8 x 4 ins 10 ins in the ground for cor. of secs 19, 20, 29 and 30. marked cut 2 notches on S. and 3 notches on Edges. from which 1 pine 22 ins diam bears S 41 W 12 links dist. marked T36 S R6 W. S 30 B.T. no other lines within limits Raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable Land mountainous and rolling Soil stony 4th rate. Timber yellow pine Mountainous land on 4000 chs Dense undergrowth on 80.00 chs

Chains.	
	East on a random line bet secs 20 and 29
40.00	Set a temp 1/4 sec. cor.
80.00	Intersect N and S line at cor of secs 20, 21, 28 and 29
	Thence Run
	West on a true line bet secs 20 and 29
	Over mountainous land through dense undergrowth and scattering timber.
40.00	Set limestone 12 x 10 x 7 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	A pine 20 ins diam bears S. 52° E. 52 lks dist marked 1/4 S. B. T.
	A pine 17 ins. diam bears N 48° W. 95 lks dist. marked 1/4 S. B. T.
50.00	Descend abruptly into valley
78.00	~~to a pine~~ bus N 6 W.
80.00	The cor of secs 19, 20, 29 and 30
	Land mountainous and broken
	Soil stony 4th rate.
	Timber pine spruce
	Dense undergrowth on 80.00 chs.

	West on a random line bet secs 19 and 30
40.00	Set temp 1/4 sec cor.
76.43	Intersect W. bdy of Tp. 52 lks N 0° 05' E of cor of secs 19, 24, 25 and 30 as retraced and disturbed.
	Set a limestone 12 x 8 x 6 ins 8 ins in the ground for closing cor. to secs 19 and 30 marked C. on E face with 2 grooves on S and 4 grooves on N faces and raised a mound of stone 2 ft base 1½ ft high
	E of cor. pits unprestorable. Identified making on old cor pertaining to secs 19 and 30
	East on a true line bet secs 19 and 30
	Over rolling land through heavy timber
36.43	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor.

Subdivisions of T36 A.R.6 W. continued

Chains	
	marked 1/4 on N. face from which
	Open 14 lks diam bears N 27° E. 6 lks dist.
	marked 1/4 S.B.T.
	Open 16 lks diam bears S. 40 1/3° W 52 lks dist.
	marked 1/4 S.B.T.
41.50	Leave heavy timber. bottom of ravine dis N.
42.00	Road from Mammoth Creek to
	Pangutch brs N and S.
	Ascend gradually through scattering
	timber and dense undergrowth
50.00	Descend
55.00	Ravine dis N.
61.00	Ridge brs N. and S.
76.43	The cor of secs 19, 20, 29 and 30
	Land rolling and mountainous
	Soil stony 4th rate
	Timber yellow pine suitable for
	lumber.
	Heavily timbered on 41.50 chs
	Dense undergrowth on 34.43 chs.
	Mountainous or heavily timbered land
	on 76.43 chs.
	N 0°09' E bet secs 19 and 20
	Over mountainous land through
	dense undergrowth
	Ascending
24.00	Top of ridge slopes N.
	descend through scattering timber.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins
	in the ground for 1/4 sec cor. marked
	1/4 on N. face from which
	Open 14 lks diam bears S. 7° E 136 lks dist.
	marked 1/4 S.B.T.
	Open 20 lks diam bears S. 31 1/3° W 118 lks dist.
	marked 1/4 S.B.T.
50.00	Leave timber
55.30	Road from Mammoth Creek
	to Pangutch brs N. and S. N.
	ascend
63.00	Enter heavy timber
	descend gradually

Twin
80.00 Set limestone 13 x 9 x 8 ins. 9 ins in the ground for cor of secs 17, 18, 19 and 20 marked with 3 notches on S and 3 notches on E edges
From which
Open 20 ins diam bears N 68½° E 22 lks dist. marked T36 S. R6 W. S 17. B.T.
Open 12 ins diam bears S 47° E 44 lks dist. marked T36 S. R6 W. S. 20. B.T.
Open 14 in diam bears S. 23° W 156 lks dist. marked T36 S. R6 W. S 19 B.T.
Open 30 ins diam bears N 82° W 84 lks dist. marked T36 S. R6 W. S. 18. B.T.
Land rolling and mountainous.
Soil stony red rate.
Timber yellow pine suitable for lumber.
Heavily timbered & our 17.00 chs
Mountainous or dense undergrowth on 80.00 chs

June 25: At this cor Decl of 23° 23' W on the decl arc and at 8 h 00 m S.M.T observed the sun on the meridian. The mean true lat is 37° 40' N

Ent on a random line bet secs 17 and 20
1000 Set 1 ft of 1000 cor.
1000 Intersect N and S line at cor of secs 16, 17, 20 and 21
Chains Down
Ent on a true line bet secs 17 and 20
Cross mountainous land
Straight dense undergrowth on rolling timber.
Chains Down

Subdivisions of T. 36 S. R. 6 W. continued

Chains.	
12.00	Ridge brs N.E. and S.W. descend
19.00	Valley drs N30°E ascend
40.00	Set a sandstone 14 x 12 x 6 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face, and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable
46.00	Top of ridge brs N.E and S.W. descend
60.00	Road from Mammoth creek to Tanguitch brs N.E. and S.W. ascend
63.00	Enter heavy timber
73.00	Top of hill 150 ft above cor.
80.00	The cor of secs 17, 18, 19 and 20

Land mountainous.
Soil stony of ch rate.
Timber yellow pine suitable for lumber.
Heavily timbered on 17.00 chs.
Mountainous land and dense undergrowth on 80.00 chs.

Mesh on a true line bet secs 18 and 19
Over mountainous land through heavy timber

20.00	Edge of canon 150 ft deep. descend abruptly.
24.00	Foot of abrupt descent leave heavy timber
30.00	Road from Mammoth creek to Camerons New Saw mill brs N and S. Ascend enter heavy timber
37.00	Top of spur sloping north. descend abruptly
40.00	Set sandstone 12 x 8 x 4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which

Subdivisions of T.36 S. R.6 W. continued

Chains.	
	A pine 12 ins diam bears N 71½° E 81 lks dist. marked 14 S.B.T.
	A pine 12 ins diam bears S. 5½° E 18 lks dist. marked 14 S.B.T. Ascend abruptly
43.00	Cameron's Sawmill bears N 17.00 chs dist.
60.00	Top of hill 150 ft high descend
76.35	Intersect N. bdy of Tp. 88 lks N 0° 08' E of cor of secs 13, 18, 19, and 24 as heretofore described Set a sandstone 12 x 9 x 4 ins 8 ins in the ground for closing cor to secs 18 and 19. marked C.C on E face with 3 grooves on S and N. faces and raised a mound of stone 2 ft base 1½ ft high E of cor. pits impracticable. I destroy all marking of old cor pertaining to secs 18 and 19. Land mountainous Soil stony 4th rate. Timber yellow pine suitable for lumber. Heavily timbered on 70.35 chs Mountainous land on 76.35 chs.
	N 0° 09' E bet secs 17 and 18 Over mountainous land through heavy timber. descending
6.00	Bottom of gulch bears N 20° E ascend
10.00	Ridge bears N 20° E and S. 20° W. descend
14.00	Bottom of gulch bears N 20° E. ascend
34.00	Top of ridge bears N 70° E and S 70° W. Descend abruptly.
40.00	Set a limestone 12 x 8 x 6 ins 8 ins in the ground for 14 sec. cor. marked 14 on N. face from which A pine 16 ins diam bears N. 87½° E 80 lks dist. marked 14 S.B.T. A pine 12 ins diam bears S 85½° W. 30 lks dist marked 14 S.B.T.

Subdivision of T.36 S. R.6 W. continued

Chains.	
42.00	Foot of steep hill.
	Road from Cameron saw mill to Hatchtown and Panguitch brs N70°E and S.70°W.
42.30	Log fence brs N70°E and S.70°W.
	Leave heavy timber
	Enter pasture probably belonging to Joseph Houston
	Joseph Houstons dairy house brs N75°W. about 35.00 chs dist
49.00	Dry wash ins Easterly.
50.50	Across pasture land ascend abruptly over rough lava rock
70.00	Top of ridge of lava rock brs E and W.
	Descend abruptly through scattering timber
80.00	Set a lavastone 12×10×8 ins 8 ins in the ground for cor of secs 7, 8 17 and 18 marked with 4 notches on S. and 5 notches on N. edges from which
180/820	Open 16 ins diam bears N17°E 128 lks dist. marked T.36 S. R.6 W. S.8. B.T.
	Open 8 ins diam bears S27°E 16 lks dist. marked T.36 S. R.6 W. S.17. B.T.
	Open 14 ins diam bears N46½°W 93 lks dist. marked T.36 S. R.6 W. S.7. B.T.
	Open 10 ins diam bears N87½°W 189 lks dist. marked T.36 S. R.6 W. S.7. B.T.
	Land mountainous and rolling
	Soil sandy loam and stony
	1st and 4th rate.
	Timber yellow pine suitable for lumber.
	Heavily timbered on 42.00 chs
	Mountainous and dense undergrowth on 71.80 chs.

Subdivisions of T.36, S.R.6.W. - continued

Chains	
	East on a random line between sections 8 and 17
40.00	Set temp 1/4 sec. cor.
80.00	Intersect N. and S. line 20 lks S of cor of secs 8, 9, 16 and 17.
	Thence S. run S 89°51' W on a true line between sections 8 and 17
	Over rolling land through dense undergrowth.
120.00	Dry wash ass S.E. ascend
180.00	Road from Hatchtown to Panguitch lake bns N.W. and S.E.
	Ascend more abruptly.
300.00	Enter scattering timber.
400.00	Set lava stone 12 x 8 x 5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Pine 15 ins diam bears N 71° W 92 lks dist. marked 1/4 S.B.T.
	No other trees within limits to raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
800.00	The cor. of secs 7, 8, 17 and 18.
	Land mountainous and rolling
	Soil stony and sandy loam
	2nd and 4th rate.
	Timber yellow pine
	Dense undergrowth on 80.00 chs.

	West on a true line between sections 7 and 18
	Over rolling land through dense undergrowth and heavy timber
40.00	Set a lava stone 12 x 8 x 5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Pine 14 ins diam bears N 28° E. 40 lks dist marked 1/4 S.B.T.
	Pine 30 ins diam bears S 26½° W 98 lks dist.

Subdivisions of T.36 S. R.6 W. continued

Chains	
	marked 114 B.B.T.
76.23	Intersect W bdy of Tp 129 chs N 0°08' E of cor of secs 7, 12, 13 and 18, as heretofore described
	Set a sandstone 13 x 8 x 7 ins 9 ins in the ground for closing cor. to secs 7 and 18. marked C.C. on E face with 4 grooves on S and 2 grooves on N faces.
	from which
	Pine 31 ins diam bears N 40½° E 41 lks dist. marked C.C. T.36 S.R.6 W. S.7. B.T.
	Pine 30 ins diam bears S. 58° E 47 lks dist. marked C.C. T.36 S.R.6 W. S.18. B.T.
	Identify all marking of old cor pertaining to secs 7 and 18
	Land rolling
	Soil stony
	Timber yellow pine suitable for lumber.
	Heavily timbered and dense undergrowth on 76.23 chs.
	June 25

	June 26: At 8 h 00 m a.m. l.m.t. Dec of ☉ 3.7°41' N Hour lat are 23 h 22' N Hour decl arc: and determined a true meridian with the solar at the cor of secs 7, 8, 17 and 18.
	Thence Drum N 0°09' E bet secs 7 and 8
	Over mountainous land through dense undergrowth and heavy timber
	Descend abruptly
6.00	Top of steep descent. descend gradually
14.50	Road brs E and W from Hatchtown to Tanguet Lake
16.00	Dry wash dis Easterly leave heavy timber, ascend

Chains	
30.00	Ascend
40.00	Set a lava stone 12x10x8 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on W. face and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
50.00	Top of ridge 30.1 feet above cor. descend
56.00	Enter flat
70.00	Ascend abruptly. Enter timber
80.00	Set limestone 12x8x8 ins 8 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 18 ins diam bears N 45 2/3° E 43 lks dist. marked T.36 S. R.6 W. S.5 B.T.
	A pine 20 ins diam bears S 73 1/3° E 28 lks dist. marked T.36 S. R.6 W. S.5. B.T.
	A pine 13 lks diam bears S. 78° W 43 lks dist marked T.36 S. R.6 W. S.7. B.T.
	A pine 12 ins diam bears N 49 1/2° W 33 lks dist. marked T.36 S. R.6 W. S.6. B.T.
	Land mountainous
	Soil stony 4th rate
	Timber pine
	Mountainous land a dense undergrowth on 80.00 chs

	N 89°51' E on a random line bet secs 5 and 8
40.00	Set temp 1/4 sec. cor.
80.10	Intersect N and S. line 6 lks S. of cor. of secs. 4, 5, 8 and 9
	Thence Down
	S 89°49' W on a true line bet secs 5 and 8
	Over mountainous land through dense undergrowth and heavy timber

Subdivisions of T.36 S. R.6 W. - continued

Chains	
	Descending
30.00	Leave heavy timber, through dense undergrowth
40.05	Set a limestone 12 x 10 x 8 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Ascend
60.00	Enter heavy timber
80.10	The cor of secs 5, 6, 7 and 8.
	Land mountainous
	Soil stony 4th rate.
	Timber scrub pine
	Heavily timbered on 50.10 chs
	Dense undergrowth and mountainous land on 80.10 chs.

	Next on a true line bet secs 6 and 7.
	Over broken mountainous land along side of ridge through heavy timber and dense undergrowth ascending
20.00	descend over ridges and gulches.
35.00	Leave heavy timber.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
76.30	Intersect W bdy of Tp 90 lks N 70° 08' E of the cor of secs 1, 6, 7 and 12 as hereto fore described.
	Set a lava stone 12 x 9 x 8 ins 8 ins in the ground for closing cor to secs 6 and 7 marked C.C. on E face with 5 grooves on S. and 1 grooves on N face and raised a mound of stone 2 ft

Chains

base 1½ ft high E of cor. pits impracticable
Destroy all markings of old cor. pertaining to secs 6 and 7.
Land mountainous.
Soil stony 4th rate.
Timber pine (scrub)
Heavily timbered on 35.00 chs.
Mountainous land and dense undergrowth on 76.30 chs.

N 0°09' E on a true line bet secs 5 and 6.
Over mountainous land through heavy timber and dense undergrowth.
Ascending abruptly.

18.00 Top of bench 200 ft above cor. ascend.

32.00 Bottom of gulch drs S 70° E. ascend abruptly

40.00 Set a limestone 14 x 10 x 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
A pine 14 ins diam bears S 52½° E 28 lks dist. marked 1/4 S.B.T.
A pine 12 ins diam bears N 49½° W. 40 lks dist. marked 1/4 S.B.T.

45.00 Top of high mountain ridge 400 ft above 1/4 sec cor. drs E and W. Descend abruptly.

60.00 Bottom of valley, drs Easterly. Ascend

80.15 Intersect N. bdy of Tp 11.58 chs E of the standard cor to secs 31 and 32. volcanic rock 18 x 12 x 12 as described by Surveyor.
Set a sandstone 16 x 10 x 8 ins 12 ins in the ground for closing cor to secs 5 and 6, marked C.Cor on S. face with 5 grooves on E and 1 grooves on W faces from which

Subdivisions of 4.36 S. R.6 W. continued

Chains

Pine 12 in diam bears S 44 2/3° E 71 lks dist
marked C.C. T.36 S. R.6 W. S.5. B.2.
Pine 14 in diam bear S.48° W. 84 lks dist.
marked C.C. T.36 S. R.6 W. S.6. B.2.
Land mountainous
Soil stony & thrate.
Timber pine.
Mountainous land, heavily timbered and dense undergrowth on 80.15 chs.

June 25. 1897

General Description.

This township is rolling and mountainous. The soil is stony but well adapted to grazing for which it is extensively used.

In the western part there are forests of pine timber suitable for lumber. The eastern part is generally covered with scrub pine cedar and dense undergrowth of oak artemesia sarons, aspen and rabbit brush.

The township is watered only by a few springs.

There is a sheep shearing ranch and spring of water in sec 27. A sawmill and two settlers in sec 18. There is also some cultivated land in sec 36 but no other improvements.

I did not find desert entryman No 4130 John Crofts nor desert entryman No 4287 Samuel J Bunkhurst.

There were no indications of mineral.

Alfred B. Lewis.
U.S. Dep Sur.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

Subscribed and sworn to before me this .....
day of ....., 180

.....

SEAL

.....

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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 ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 30, 1898

The foregoing field notes of the survey of Subdivisions of Township 2 South, Range 1 West of the Salt Lake Base and Meridian, Utah

.....

.....

.....

.....

executed by Alfred B. Lewis under his contract No. 211, dated October 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair

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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Examined

4—679.

BOOK A-246

K.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Sub-division Lines

of

Township 37 South, Range 7 West

Of the Salt Lake Base & Meridian,

In The State of Utah

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced July 5th, 1897

Survey completed July 15th, 1897

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Sub-Divs. m. chs. lks.
22 - 20 - 46

Contingent.
S Bdry — 1 - 70 - 12
N " " 6 - 05 - 93
" " Clos — 9 - 15
N - Bdry — 1 - 78 - 60

NAMES AND DUTIES OF ASSISTANTS.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Moundsman
Frank L. Goodwin	Flagman

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BOOK A-246

INDEX DIAGRAM.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

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

.....

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

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

.....

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

Subdivision of T37 S. R7 W.

Survey commenced July 5th 1897 and executed with an L.R. Gras buyers transit with solar attachment fully described and listed as shown in the field notes of the survey of the subdivision of T36 S. R6 W. Dated June 15 1897. see book "M"

July 5: At 8 h 00 m a.m. l.m.t. Took off 37°33' N on the latitude: 22°45' N on the declination arc and determined a true meridian with the solar at the cor of secs 4.5.32 and 33 on S. bdy of Tp. which is in lat 37°32' N. longitude 112-37 W. Var 15° 30' E

Before commencing to subdivide the remainder of the Tp I set the boundary as follows.

S 89°58' W along S bdy of Tp bet secs 5 and 32

40.00 114.00 cor.

80.00 The cor of secs 5.6.31 and 32 which is a lava stone 5x20x10 above ground, firmly set and marked and witnessed as described by the surveyor general.

Thence S continue S 89°58' W bet secs 6 and 31

40.00 114.00 cor.

70.12 Intersect the cor of T37 and 38 S. R7 and 8 W. which is a lava stone firmly set, 10x8x6 ins above ground, marked and witnessed as described by the surveyor general.

Thence I run N 0°11' W along W. bdy of Tp bet secs 31 and 36

40.00 Found 1/4 sec cor standing.
80.00 Found cor of secs 25, 30, 31 and 36 standing
Thence Dram
N 0° 11' W bet secs 25 and 30
40.00 Found 1/4 sec cor standing.
80.00 Found cor of secs 19, 24, 25 and 30 standing.
Thence Dram
N 0° 11' W bet secs 19 and 24
40.00 Found 1/4 sec cor standing
80.00 After diligent search I can not find cor of secs 13, 18, 19 and 24
Therefore I establish a cor as follows.
Set a lava stone 14 x 10 x 8 ins 10 ins in the ground for cor of secs 13, 18, 19 and 24 marked with 3 notches on N and E edges
from which
A fir 8 ins diam bears N 82½° E 54 lks dist. marked T. 37 S. R. 7 W. S. 18 B. T.
A fir 12 ins diam bears S 70° E 43 lks dist. marked T. 37 S. R. 7 W. S. 19, B. T.
no other trees within limits
Drave a mound of stone 2 ft base 1½ ft high W of cor pits impracticable
Land broken lava beds rolling.
Soil stony sch rate
Timber aspen, fir, pine
Brush underwood or broken lava rock on 80.00 lks.
July 6th 1897

July 6: At 8 h 00 m. a.m. l.m.t. I set off 37° 36' N on the lat. arc; 22° 39' N on the dec arc; and determined a true meridian with the solar at the cor of secs 13, 18, 19 and 24

Chains	Thence Down
	North on a random line selling 1450 acres and set corner at intervals of 40.00 chs. Such found no bounds of said corn.
	At 479.80 chs. corner cor to Ts. 37 and 38 N Rs 7 and 8 W. I cross a well blazed line but can find no cor corners
	At 487.80 chs S fall 8.95 chs E of cor of Ts 36 and 37 N Rs 7 and 8 W.
	Set temp closing cor
	Thence Sgo to the closing cor. to sections 5 on the N. bdy of the Sp which is a limestone ledge set 8 x 10 x 5 above ground marked and witnessed as described by the survey or general
	Thence Down
	N 89 45' W on a relocation line between 5 and 33.
0.71	The cor of secs 32 and 33.
	Thence on the same course bet secs 5 and 32.
40.51	The 1/4 sec cor.
80.40	The cor of secs 5, 6, 32 and 33.
	Thence Down
	N 89 45' W bet secs 5 and 32
39.78	The 1/4 sec cor. which is a relocation not found set 8 x 8 x 5 in a bed ground marked and witnessed as described by the survey general.
	Thence S continue
	N 77° 36' W
73.20	Intersect the cor of Ts 36 and 37 N R 7 and 8 W. which is a standard set 6 x 8 x 18 in above ground firmly set, marked and witnessed as described by the survey general.
	Therefore all the intermediate

Resurvey of West boundary of T37S R7W.

Chains

of the random line through T. 37 S. bet. Rs. 7 and 8 W., and the N bdy of the Tp, which point is S 77° 56' E. 9.15 chs dist from the old Tp cor. Set a lava stone 12 x 8 x 8 ins 8 ins in the ground for closing cor to Ts 37 S. Rs 7 and 8 W. marked C.P. on S with 6 grooves on S. E and W. faces from which.

C 1 fir 10 ins diam bears S 49½° E 38 lks dist. marked T37S R7W. S.6. B.T.

C 1 fir 14 ins diam bears S 41½° W. 69 lks dist. marked T37S R8W. S 1 B.T.

In each pit drove a pine stake 2 ft long 2 ins sq, 12 ins in the ground marked C.P. T37S. on S.
R7W S.6 on E. and
R8W. S.1 on W face
with 6 grooves on S. E. and W faces
I destroy all markings of old cor pertaining to Ts 37 S. Rs 7 and 8 W. I also destroy temporary closing cor for T 37 S Rs 7 & 8 W. previously set 8.95 chs E of cor to Tp 36 Rs 7 & 8 W

July 6 1897

July 8: At 8 h 00 m a.m. l.m.t. I set off 37° 38' N on the lat arc: 32.26 on the decl arc, and determine a true meridian with the solar at the closing cor above described, thence I run South bet Secs 1 and 6.
Over rolling land through heavy timber and dense undergrowth

.50 Spring branch 4 lks wide dir N. E.
Ascend abruptly.

3.00 Top of bench over rolling land,

40.93 Set a lava stone 12 x 8 x 7 ins 8 ins.

Resurvey of West boundary of T37 S. R7 W. contin-

in the ground for 1/4 sec cor. marked
1/4 on W face from which
Open 6 in sidehill bears N54½° E 81 lks dist.
marked 1/4 S.B.T.
Open 8 in sidehill bears S9° W 84 lks dist
marked 1/4 S.B.T.
- 85.93 Set a lava stone 12 x 8 x 6 in 8 in
in the ground for cor of secs
1, 6, 7 and 12 marked with
5 notches on S and 1 notch on
W edges from which
Open 9 in sidehill bears N43½° E 40 lks dist
marked T37 S R7 W S.6 B.T.
Open 10 in sidehill bears S80° E 75 lks dist.
marked T37 S R7 W S.7 B.T.
Open 30 in sidehill bears S18½° W 100 lks dist.
marked T37 S R8 W S.12 B.T.
Open 6 in sidehill bears N81½° W 42 lks dist
marked T37 S R8 W S.1 B.T.
Land rolling.
Soil clayey wheat.
Timber fine suitable for
lumber.
Heavily timbered and dense
underground on 85.93 chs.

Sandstone bot secs 7 and 12
Over Mountainous land
through heavy timber and
dense undergrowth
Descend
5.00 Bottom of gulch dir E ascend.
10.00 Ridge bet E and W descend abrupt.
30.00 Foot of abrupt descent over
ridges and bottoms
35.00 Spring branch 2 chs wide in
head of large canon 200 ft deep
dir E. ascend abruptly.
40.00 Set a limestone 12 x 8 x 7 in 8 in
in the ground for 1/4 sec cor.

Resurvey of West boundary of T37S.R7W. continued

Chain	
	marked with 114 on W face from which
	An aspen 4 ins diam bears S.59°E. 9 lks dist. marked 114 S.B.T.
	Aspen 10 ins diam bears N54°30'W 72 lks dist. marked 114 S.B.T.
58.00	Top of spur slopes Easterly, descend into clay slide almost impassable. Course of spur N.E. & S.W.
61.00	Bottom of wash dis N.E. ascend abruptly
63.00	Top of bench, over-rolling land along brow of bluff faces E.
80.00	Set a limestone 13 x 10 x 6 ins 9 ins in the ground for cor of secs 7, 12, 13 and 18. marked with 4 notches on S. and 2 notches on N edges from which
	Aspen 16 ins diam bears S.65°E. 57 lks dist. marked T37S.R7W. S.18. B.T.
	Aspen 24 ins diam bears S.10½°W 73 lks dist. marked T37S.R8W. S 13. B.T.
	Aspen 8 ins diam bears West 89 lks dist. marked T37S.R8W. S.12. B.T.
	No other trees within limits.
	Drake a mound of stone 2 ft base 1½ ft high W. of cor.
	pits impracticable
	Land mountainous and rolling
	Soil stony, clay and gravel 4th rate
	Timber fine, for aspen, of commercial value
	Mountainous land on 63.00 chs.
	Heavily timbered and dense undergrowth on 80.00 chs.

South bet secs 13 and 18.
Over mountainous land through heavy timber and dense undergrowth.
Descending abruptly

Resurvey of West boundary of 9.37 S.R.7.W. cont.

Chains	
16.00	Bottom of canon 300 ft deep. Creek 8 lks wide dis N.E. Ascend abruptly
40.00	Top of bench 300 ft above creek Set a lava stone 14x10x8 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which Pfine 14 ins diam bears N 70° E 42 lks dist marked 1/4 S.B.T. Pfine 9 ins diam bears S 29° W 28 lks dist marked 1/4 S.B.T. Over rolling lava rocks very rough and broken, through dense aspen and scattering fine.
80.00	The cor of secs 13, 18, 19 and 24 which I reestablished heretofore. Land mountainous and rolling. Soil stony and gravel, on N side of creek and broken lava beds on S side of creek. Timber fine fir and aspen. Heavily timbered or dense undergrowth on 80.00 chs. Mountainous land on 40.00 chs

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Subdivisions of T37 S. R7 W.

Chains. Survey commenced July 10, 1897 and executed with an L. R. Gurley Burger transit with solar attachment fully described and tested as shown in the field notes of the survey of the subdivisions of T. 36, S. R 6 W. Dated June 15 1897, see book "M"

July 10. At 8h 00m a.m. L.m.t. I set off 37°33' N on the lat arc 22°11' N on the dec arc and determined a true meridian with the solar at the cor of secs 4, 5, 32 and 33.

Thence Drew

No° 12' W bet secs 32 and 33 and at 40.00 chs intersect the 1/4 sec cor. and at 80.05 intersect the cor of secs 28, 29, 32 and 33. Therefore the line bears N0°12' W.

The S. bdy of Tp bet secs 5 and 32 I have retraced heretofore

---

I commence at the cor of secs 28, 29, 32 and 33 which is a sandstone 10x7x8 - ins above ground firmly set and marked and witnessed as described by the surveyor general.

Thence Drew

No°12' W bet secs 28 and 29

Over mountainous land through dense undergrowth and heavy timber

Descend

6.00 Bottom of gulch dry Easterly

Ascend

11.00 Ridge bears E and W. descend

Subdivisions of T37S R7W continued

Chains	
18.00	Hollows dry E.
	Entri broken lava bed
31.00	Leave heavy timber, entri aspen
38.00	Entri heavy timber.
40.00	Set a volcanic rock 14x10x8 ins 10 ins in ground for 1/4 sec cor, marked 1/4 on W. face from which
	An aspen 10 ins diam bears S. 10½° W. 31 lks dist, marked 1/4 S.B.T.
	A pine 30 ins diam bears N 18° W 62 lks dist marked 1/4 S.B.T.
75.40	Intersect pine 14 ins diam and mark with 2 notches on N and S. sides.
80.00	Set a lava stone 14x8x7 ins 10 ins in the ground for cor of secs 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E edges from which
	A aspen 6 ins diam bears N 41° E 95 lks dist. marked T37S R7W S21 B.T.
	A pine 10 ins diam bears S. 13° E 123 lks dist. marked T37S R7W S28 B.T.
	A pine 10 ins diam bears S. 62° W. 54 lks dist marked T37S R7W S29 B.T.
	A pine 28 ins diam bears N 57° W 184 lks dist marked T37S R7W S20 B.T.
	Land mountainous and rolling soil stony, and lava bed
	Timber aspen spruce pine.
	Mountainous land or broken lava bed on 80.00 chs.
	Heavily timbered on dense undergrowth on 80.00 chs.

East on a random line bet secs 21 and 28

40.00	Set temp 1/4 sec cor.
80.10	Intersect N and S line at chs

cor of secs 21, 22, 27 and 28 which is a limestone 5" x 12" x 6' above ground marked and witnessed as described by the surveyor general. Thence Drum West on a true line bet secs 21 and 28.
Over mountainous land through heavy timber ascending abruptly.
11.00 Top of ridge brs N and S. descending gradually
40.05 Set a limestone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
A pine 10 ins diam bears S 66° W 93 lks dist. marked 1/4 S. B. T.
A pine 12 ins diam bears N 26½° W 44 lks dist. marked 1/4 S. B. T.
48.50 Small gulch 30 ft deep. drs N.
Enter broken lava bed.
80.10 The cor. of secs 20, 21, 28 and 29.
Land rolling and broken
Soil sandy and gravelly loam and broken lava bed. 4th rate
Timber pine spruce and aspen
Heavily timbered on 80.10 chs.

July 10. At this cor I set off 22°08' N on the decl. arc and at 0 h 00 m. l. m. t. observed the sun on the meridian. The resulting lat is 37° 35' N.

No 12 W bet secs 20 and 21.
Over mountainous land through heavy timber. ascending
4.00 Hollow. drs Easterly
5.00 Leave heavy timber, enter dense

Subdivisions of T37 S. R7 W continued

Chains	
	undergrowth and ascend abruptly
16.00	Enter Heavy timber
25.00	Top of cinder hill 350 ft. high bearing E and W. descend abruptly.
40.00	Set lava stone 13 x 8 x 8 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	Open 6 ins diam bears S 72½° E 53 lks dist. marked 1/4 S. B.T.
	Open 9 ins diam bears N. 53° W 36 lks dist marked 1/4 S. B.T.
42.00	Bottom of hill.
	Over broken lava bed.
80.00	Set a lava stone 14 x 8 x 8 ins 10 ins in the ground for cor of secs 16, 17, 20 and 21 marked with 3 notches on S. and 4 notches on E edges from which
	Open 30 ins diam bears N 78¾° E 34 lks dist. marked T37 S. R7 W. S.16. B.T.
	Open 12 ins diam bears S 62½° E 67 lks dist. marked T37 S. R7 W. S.21. B.T.
	Open 10 ins diam bears S. 89½° W 123 lks dist. marked T37 S. R7 W. S 20. B.T.
	Open 10 ins diam bears N 22½° W. 54 lks dist. marked T37 S. R7 W. S17 B.T.
	Rough mountainous and broken Soil lava rock
	Timber pine aspen
	Mountainous land on 42.00 chs.
	Heavy timbered and dense undergrowth on 80.00 chs.

East on a random line bet secs 16 and 21

10.00	Set temp 1/4 sec cor
20.00	Intersect Hand S. line at the cor of secs 15, 16, 21 and 22 which is a volcanic rock 5 x 12 x 6 above ground marked and witnessed

Subdivisions of T37 S. R7 W. continued

Chains	
	as described by the surveyor general.
	Thence Dist.
	North on a true line bet. secs 16 and 21
	Over very broken lava bed through dense undergrowth.
	Ascending gradually.
39.00	Leave rough lava bed & enter heavy timber.
40.10	Set a lava stone 14 x 10 x 8 ins 9 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which
	A pine 14 ins diam bears N76° E 55 lks dist. marked 1/4 S.B.T.
	A pine 16 ins diam bears S9 3/8° E 177 lks dist marked 1/4 S.B.T.
80.20	The cor of secs 16, 17, 20 and 21
	Land rolling, broken lava bed
	Soil lava rock
	Timber pine and aspen.
	Heavily timbered on 41.20 chs
	Dense undergrowth on 80.20 chs
	No 12 W bet secs 16 and 17
	Over rolling lava bed through dense undergrowth and timber.
40.00	Set a lava stone 13 x 9 x 8 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W face from which
	A pine 14 ins diam bears N33 5/8° E 133 lks dist. marked 1/4 S.B.T.
	A pine 22 ins diam bears N38° W 81 lks dist. marked 1/4 S.B.T.
80.00	Set a volcanic rock 14 x 10 x 9 ins 10 ins in the ground for cor of secs. 8, 9, 16 and 17 marked with 4 notches on S. and E. edges

Subdivisions of T37 S. R7 W. continued

Chains. from which

Spruce 15 in. diam. bears S 7½° E 78 lks dist. marked T37 S. R7 W. S. 16. B.T.

Spruce 18 in. diam. bears S 71½° E 62 lks dist. marked T37 S. R7 W. S. 16. B.T.

Spruce 45 in. diam. bears S 20½° W 131 lks dist. marked T37 S. R7 W. S. 17. B.T.

Spruce 11 in. diam. bears N 35½° W 119 lks dist. marked T37 S. R7 W. S. 8. B.T.

Land rolling

Soil broken lava bed.

Timber pine and aspen.

Brush undergrowth and heavy timber.

80.00 chs.

July 10

July 12: At 8 h. 00 m. a.m. l.m.t. set off 37°36' North lat. are: 2°50' W. on the dial arc and determined a true meridian with the solar at the cor. of secs. 8, 9, 16 and 17.

Thence Drew

East on a random line bet. secs. 9 and 16.

40.00 Set temp. ¼ sec. cor.

80.16 Intersect Naud's line at the cor. of secs. 9, 10, 15 and 16 which is a limestone 5" x 5" x 18" above ground marked and witnessed as described by the surveyor general.

Thence Drew

West on a true line bet. secs. 9 and 16.

Open rolling land through heavy timber.

2.00 Road from Benj. Cameron to head of Mammoth creek.

2.00 Enter burn sheds

40.00 Set a lava stone 14" x 10" x 4" in 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face from which

Spruce 8 in. diam. bears S 86½° E 45 lks dist.

Subdivisions of T37 S. R 7 W continued

Chains	
	marked 1/4 S.B.T.
	Pine 20 in diam bears S 86½° E 57 lks dist. marked 1/4 S.B.T.
— 80.16	The cor of secs 8, 9, 16 and 17
	Land rolling.
	Soil broken lava bed and stony ground.
	Timber pine and aspen
	Heavily timbered and dense undergrowth on 80.16 chs.
	N 0°12' W on a random line bet secs 8 and 9.
40.00	Set temp 1/4 sec cor.
80.00	Intersect the cor of secs 4, 5, 8 and 9, a limestone 6"x6"x6" above ground marked 1/4 as described by surveyor. Thence
	S 0°12' E on a true line bet secs 8 and 9.
	Over mountainous land through heavy timber and dense under growth.
	Ascend abruptly.
25.00	Top of hill, rolling lava bed.
40.00	Set a volcanic rock 12"x10"x10" 8" in the ground for 1/4 sec cor, marked 1/4 on N. face from which
	Pine 14 in diam bears N 85° E 137 lks dist. marked 1/4 S.B.T.
	Pine 16 in diam bears S 60° W 33 lks dist. marked 1/4 S.B.T.
— 80.00	The cor of secs 8, 9, 16 and 17.
	Land mountainous and rolling.
	Soil stony and gravelly on N end of line and lava rock on S end of line 4th rate
	Timber aspen and pine
	Mountainous land on 25.00 chs.
	Heavily timbered and dense undergrowth on 80.00 chs.
	July 12, 1897.

July 13. At 8h 00m a.m. I set off 37°33' N on this lat and 31°46' N on this del and determined a true meridian with the solar at the cor of secs 5, 6, 31 and 32 on the S. bdy of Tp hereinafter described

Thence Drew

N 0°12' W. bet secs 31 and 32

Over rolling land through heavy timber and dense undergrowth

40.00 Set a sandstone 12 x 10 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which

A pine 12 ins diam bears N 6½° E 26 lks dist, marked 1/4 S.B.T.

A pine 15 ins diam bears N 82½° W 33 lks dist, marked 1/4 S.B.T.

76.00 Descend abruptly bears N 10° E

80.00 Set a sandstone 13 x 8 x 7 ins 9 ins in the ground for cor. of secs 29, 30, 31 and 32 marked with 1 notch on S and 5 notches on E edge from which

A spruce 20 ins diam bears N 88° E 48 lks dist, marked T.37 S. R.7 W. B.29. B.T.

An aspen 8 ins diam bears S 36° E 80 lks dist, marked T.37 S. R.7 W. B.32 B.T.

A pine 18 ins diam bears S 53⅔° W 95 lks dist, marked T.37 S. R.7 W. B.31. B.T.

A spruce 10 ins diam bears N 37⅔° W 32 lks dist, marked T.37 S. R.7 W. B.30 B.T.

Land rolling

Soil sandy and gravelly loam with sandstone 3d rate.

Timber pine aspen spruce.

Heavily timbered and dense undergrowth on 80.00 chs.

Subdivisions of T37S. R7W. continued

Chains	
	N 89°58' E on a random line bet secs 29 and 32.
40.00	Set temp 1/4 sec cor.
80.00	Intersect cor of secs 28, 29, 32 and 33, Thence S run S 89°58' W on line line bet secs 29 and 32 Over mountainous land through heavy timber and dense undergrowth. Ascending
14.75	Intersect pine 18 in diam marked two notches on E and W sides.
34.00	Valley drs S.E. ascend
40.00	Set a sandstone 12 x 12 x 10 ins 8 ins in the ground for 1/4 sec cor, marked 1/4 on N face, from which Spruce 18 ins diam bears N 16 1/2° W 108 lks dist marked 1/4 S.B.T. Spruce 18 ins diam bears N 33° W 31 lks dist marked 1/4 S.B.T.
50.00	Ridge trs N and S. descend
55.00	Hollow drs S.E. ascend
58.57	Spruce 24 ins diam on line 2 links E of W
69.00	Top of ridge 100 ft high trs N and S.
73.80	Spruce 30 ins diam on line 2 links E of W Descend
80.00	The cor of secs 29, 30, 31 and 32. Land rolling and mountainous. Soil sandy and gravelly loam with sand stone Timber pine spruce and aspen. Heavily timbered and dense underwood on 80.00 chs.
	N 89°38' W on a random line bet secs 30 and 31
40.00	Set temp 1/4 sec cor.

chains

70.05 Intersect N. bdy of Tp. & the S. bdy of cor. of secs. 25, 36, 31 and 36 which is a lava stone 6x8x10 ins above ground, marked and witnessed as described by the surveyor general.

Thence Down

S. 89° 58' E. on a true line between 30 and 31.

Over rolling broken lava bed through dense underground and scattering timber.

30.05 Set a lava stone 14x10x8 ins 10 ins in the ground for 1/4 Sec cor. marked 1/4 on N. face from which

A pine 30 ins diam bears N. 49° E. 186 lks dist. marked 1/4 S.B.T.

An aspen 8 ins diam bears S. 80° E. 105 lks dist. marked 1/4 S.B.T.

55.00 Same broken lava bed

60.00 Foot of hill ascend abruptly

63.00 Top of hill bears N. and S. descend

70.05 The cor. of secs. 29, 30, 31 and 32

Land rolling.

Land broken lava bed and gravelly loam 4th rate.

Timber aspen spruce & pine

Dense underground on 70.05 chs.

July 13 At this cor. Sect. 29 and 32 on the declination and at 6.00 o'clock P.M. I observed the sun on the meridian the mean solar time is 37° 32' N.

Meas. N. bet secs. 29 and 30

Over broken lava bed through dense underground timber and scattering

Subdivision of T.37.S. R.7.W. continued

Chains	Timber
8.14	Intersect pine 30 ins diam mkd 2 notches S & S
11.50	leave timber and dense un-
	dergrowth.
	Enter very broken lava bed
40.00	Set a lava stone 20 x 12 x 10 ins 15 ins
	in the ground for 1/4 sec cor.
	marked 1/4 on W. face, and
	raised a mound of stone
	4 ft base 4 ft high W. of cor.
	pits impracticable.
73.00	pine 24 ins diam on line marked two sides enter timber
80.00	Set a lava stone 13 x 10 x 8 ins
	9 ins in the ground for cor of
	secs 19, 20, 29 and 30 marked
	with 2 notches on S and
	5 notches on E edges
	from which
	A pine 16 ins diam bears S 63° W 30 lks dist
	marked T.37.S. R.7.W. S.30 B.T.
	A pine 16 ins diam bears N 27° W 14 lks dist
	marked T.37.S. R.7.W. S.19 B.T.
	no other trees within limits &
	raised a mound of stone 2 ft
	base 1½ ft high W of cor.
	pits impracticable
	Land rolling and broken
	Soil lava bed.
	Timber aspen pine spruce.
	Heavily timbered or dense
	undergrowth on 18.50 chs.
	Very rough broken lava bed on 61.50 chs.

	N 89°58' E on a random line
	bet secs 20 and 29
40.00	Set temp 1/4 sec cor.
80.12	Intersect N and S line. 5 lks
	N of cor to secs 20, 21, 28 and 29
	Thence S run
	West on a true line bet

	secs 20 and 29
	Over rolling land through
	heavy timber and dense undergrowth.
10.00	Top of hill bears N and S.
35.00	Land heavy timber.
40.06	Set a lava stone 14x10x12 ins 10 ins
	in the ground for 1/4 sec cor.
	marked 1/4 on N. face and raised
	a mound of stone 2 ft base 1½ ft
	high N. of cor. pits impracticable.
76.20	Stone in 18 inches on line 9x14x2 ins 6 ft N
	Entire heavy timber.
80.12	The cor. of secs 19, 20, 29 and 30
	Land rolling and broken
	Soil lava bed very rough
	Timber aspen pine spruce
	Dense undergrowth and very
	rough lava rock on 80.12 chs
	Heavily timbered on 1392 chs

	N 89°58' W on a random line bet
	secs 19 and 30
40.00	Set Temp 1/4 sec. cor.
70.20	Intersect W. bdy of Tp 20 lks
	S of cor to secs 19, 24, 25 and 30
	Thence Down
	S 89°49' E on a true line between
	19 and 30
	Over rolling lava bed, through
	dense undergrowth and timber
30.20	Set lava stone 14x10x8 ins 10 ins
	in the ground for 1/4 sec cor. marked
	1/4 on N. face from which
	A pine 30 ins diam bears N 76⅔° E 61 lks dist
	marked 1/4 S. B. J.
	A pine 14 ins diam bears S 19⅓° W 28 lks dist
	marked 1/4 S. B. J.
70.20	The cor of secs 19, 20, 29 and 30
	Land rolling
	Soil broken lava bed.

Chains. Timber aspen, pine and spruce
Dense undergrowth on 70.27 chs.
July 13 1897

July 14: At 8 h. 00 m. a.m. l.m.t.
I set off 37°35' N on the lat. arc:
21°37' W on the decl. arc: and determined a true meridian with the solar at the cor of secs 19, 20, 29 and 30
Thence I run
N 0°12' W. bet secs 19 and 20
Over very broken lava bed through dense undergrowth and scalling timber.
40.00 Set a lava stone 14 x 10 x 6 ins 10 ins in the ground for 1/4 sec cor marked 1/4 on W face, and raised a mound of stone 2 ft base 1½ ft high Mpcor pits impracticable.
80.00 Set a lava stone 14 x 12 x 10 ins 10 ins in the ground for cor of secs 17, 18, 19 and 20 marked with 3 notches on S and 5 notches on E edges from which
A pine 15 ins diam bears N 70½ E 85 lks dist. marked T37S. R7W. S 17 B.T.
A spruce 14 ins diam bears S 36½ E 107 lks dist. marked T37S. R7W. S. 20. B.T.
A pine 40 ins diam bears N 2°40' W 30 lks dist marked T37S. R7W. S. 18. B.T.
A pine 15 ins diam bears N 36½ W 45 lks dist. marked T37S. R7W. S. 18. B.T.
Land very broken lava bed
Soil lava rock
Timber aspen spruce pine.
Dense undergrowth on 80.00 chs.

Subdivision of T37 S. R7 W continued,

Chain	
	East on a random line bet secs 17 and 20
40.00	Set temp 1/4 sec cor.
80.00	Intersect the cor of secs 16, 17 20 and 21
	Thence Down West on a true line bet secs 17 and 20
	Over very broken lava beds through dense undergrowth and timber,
	Ascending
20.00	Enter almost impassable lava bed
40.00	Set a lava stone 12 x 10 x 10 ins 8 ins above the ground for 1/4 sec cor. marked 1/4 on N face from which
	Aspen 14 ins diam bears S 1/2 W 33 lks dist. marked 1/4 S. B. T.
	Aspen 12 ins diam bears N 1/2 W 14 lks dist. marked 1/4 S B T.
48.00	Lava bed not so rough and broken
80.00	The cor of secs 17, 18, 19 and 20
	Land rolling broken lava bed
	Soil lava rock & sand
	Timber aspen fir and spruce
	Dense undergrowth and very broken lava bed on 80.00 chs.
	N 89°49' W on a random line bet secs 18 and 19.
40.00	Set temp 1/4 sec. cor.
70.00	Intersect W. bdy of Tp 23 lks N of cor to secs 13, 18, 19 and 24 which I left heretofore.
	Thence Down East on a true line bet secs 18 and 19
	Over broken lava bed through dense undergrowth and timber

Chains	
30.00	Set a lava stone 12×10×10 ins. 8 ins in the ground for 1/4 Sec cor. marked 1/4 on N. face from which
	A spruce 24 ins diam bears S 25 1/2° E 119 lks dist marked 1/4 S.B.T.
	A spruce 8 ins diam bears N 59 2/3° W 89 lks dist, marked 1/4 S.B.T.
70.00	The cor. of secs 17, 18, 19 and 20. Land broken lava bed and lava stone 4 ch rate. Timber aspen pine and spruce Dense undergrowth and heavily timbered on 70.00 chs.
	July 14: At this cor. I set off 21°35' N on the declinat: and at 0 h 00 m l.m.t observed the sun on the meridian the resulting lat is 37°36' N.
	M 0°12' W. bet secs 17 and 18 Over mountainous land through dense undergrowth and timber.
	Ascending
10.00	Ascend abruptly over west side of conical cinder mountain.
23.00	Top of rim of crater, Crater 6.00 chs wide and 100 ft deep.
	Descend abruptly.
40.00	Set a lava stone 14×10×8 ins 18 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which
	1 hemlock 14 ins diam bears N 17 1/4° E 16 lks dist

Subdivisions of T.37 S. R.7 W. continued

Chains	
	marked 1/4 S. B. T.
	A hemlock 32 in. diam. bears S39 1/3° W. 26 lks dist.
	marked 1/4 S. B. T.
41.00	Sub. very broken lava bed almost
	impassable peak of mountain
80.00	Set a lava stone 11 x 10 x 10 ins. 10 ins.
	in the ground for cor of secs
	7, 8, 17 and 18 marked with 4
	notches on sand 3 notches on
	Edges from which
	A pine 12 ins. diam. bears S15 1/2° E 55 lks dist.
	marked T.37 S. R.7 W. S.17. B.T.
	An aspen 15 ins. diam. bears S85 1/3° W. 10 lks dist.
	marked T.37 S. R.7 W. S.18. B.T.
	An Aspen 12 ins. diam. bears N44° W 63 lks dist.
	marked T.37 S. R.7 W. S.7. B.T.
	no other trees within limits
	raise a mound of stone 2 ft base
	1 1/2 ft high W. of cor. pit, impracticable
	Land mountainous and
	rolling.
	Surf lava cinders and rock
	4 ch rate
	Timber aspen pine hemlock
	spruce.
	Mountainous land on 41.00 Chs
	Dense undergrowth and very
	rough broken lava rock on 80.00 Chs.
	East on a random line bet
	secs 8 and 17
40.00	Set temp 1/4 sec cor
80.10	Intersect the cor of secs 8, 9, 16
	and 17.
	Thence Drum
	West on a true line bet secs
	8 and 17
	Over mountainous land
	through dense undergrowth and
	timber ascend cliff

Subdivisions of T37S. R7W. continued.

Chains	
.50	Top of cliff 30 ft high brs N.E and S.W. Lava Cliff
	Ascend
36.50	Top of volcanic ridge brs N and S.
	descend
40.05	Set a lava stone 14x10x8 ins 10 ins in the ground for 1/4 Sec cor marked 1/4 on N. face from which Pine 8 ins diam bears N5½°E 14 lks dist. marked 1/4 S.B.T.
	Pine 12 ins diam bears S45½°W. 20 lks dist marked 1/4 S.B.T.
	Over very broken lava bed descending
80.10	The cor of secs 7, 8, 17 and 18
	Land mountainous
	Soil lava rock.
	Timber aspen, pine, spruce
	Mountainous land and dense undergrowth - on 80.10 chs.
	West on a random line bet. secs 7 and 18
40.00	Set temp 1/4 Sec cor.
69.80	Intersect W. bdy of Tp at the cor of secs 7, 12, 13 and 18 which I set heretofore. Thence I run
	East on a true line bet secs 7 and 18
	Over mountainous land through scattering timber and dense undergrowth.
	Descend abruptly.
10.00	Bottom of gulch 300 feet below cor. brs N40°E. ascend
25.00	Top of ridge brs N.E. and S.W.
	Descend abruptly.
29.80	Set a sandstone 14x12x7 ins 10 ins

Chains

in the ground for 1/4 sec. cor.
marked 1/4 on N. face from which
A spruce 12 ins diam bears S 30½° E 22 lks dist.
marked 1/4 S.B.T.
A spruce 12 ins diam bears N 25½° W 10 lks dist.
marked 1/4 S.B.T.

32.80 Creek 10 lks wide drs N.E.
Ascend abruptly over lava rock.

33.80 Wagon trail trs N.E and S.W. from
Mammoth creek to Davis ranch

69.80 The cor. of secs 7.8.17 and 18.
Land mountainous.
Soil sandstone and gravel on
west of creek and lava stone
east of creek. Sh-rate.
Timber Aspen pine spruce.
Mountainous land and dense
undergrowth on 69.80 chs.

July 14.

July 15: At 8h 00m a.m. l.m.t.
Sch off 37°36' N on the lat. arc &
21°27' N on the decl arc and determined a true meridian with
the solar at the cor of secs
7.8.17 and 18.
Thence Drs
N 0°12' W bet secs 7 and 8.
Over mountainous land through
dense undergrowth and timber.
Descend abruptly.

30.50 Creek 14 lks wide drs N.E, ascend
40.00 Set a sandstone 12 x 10 x 6 ins 8 ins
in the ground for 1/4 sec. cor. marked
1/4 on N. face from which
A pine 12 ins diam bears N 45½° E 107 lks dist
marked 1/4 S.B.T.
A pine 14 ins diam bears S 38½° E 87 lks dist.
marked 1/4 S.B.T.
Descend gradually

Chains.	
72.00	Dry wash drs E. ascend a small gulch through heavy timber.
80.00	Set a limestone 14×12×4 ins 10 ins in the ground for cor of secs. 5.6.7 and 8. marked with 5 notches on S and E edges from which
	A pine 18 ins diam bears N 81½° E. 52 lks dist marked T.37 S. R.7 W. S.5 B.T.
	A pine 14 ins diam bears S 10° E 118 lks dist. marked T.37 S. R.7 W. S.8. B.T.
	A pine 22 ins diam bears S.59° W. 25 lks dist. marked T.37 S. R.7 W. S.7 B.T.
	A pine 18 ins diam bears N 2½° W. 42 lks dist. marked T.37 S. R.7 W. S. 6 B.T.
	Land mountainous and rolling. Soil lava rock 4th rate
	Timber aspen, pine, spruce. Mountainous land on 38.50 chs. Dense undergrowth on 80.00 chs.

	East on a random line bet secs 5 and 8.
40.00	Set temp 1/4 sec cor.
80.00	Intersect cor of secs 4.5.8. and 9. Thence I run West on a true line bet secs 5 and 8. Over mountainous land through heavy timber and dense undergrowth. Descend
5.00	Small gulch drs N. ascend
10.00	Ridge Brs N. and S. descend abruptly.
20.00	Bottom of gulch 150 ft deep drs N. ascend abruptly.
30.00	Ridge brs N.E. and S.W. descend
40.00	Set a lava stone 12×8×6. 8 ins. 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	A pine 10 ins diam bears N 47½° E 34 lks dist

Subdivision of G.L.O. R.7 W. [illegible]

Sam. marked W.B.B.J.
Open iron dam bears S.50° W. 9 links dist.
marked W.B.B.J.
11.00 Crest of ridge dec. N.E. ascend
12.00 Top of open slope South 200 ft.
along crest descend along ridge.
7.00 Bottom of gulch dec South ascend
8.00 The cor. of Secs. 5.6.7 and 8.
Land mountainous.
Soil stony calcareous.
Timber pine, aspen, and spruce.
Mountainous land, heavily timbered
and dense undergrowth on 8.00 chs.

July 15. At the cor. Sect. off 2120 ft. N.
on the dec. Sect. and ch. shown.
S.m.t. observed the sun on the
meridian, the resulting lat. is
37°38' N.

West on a random line bet.
Secs. 6 and 7
10.00 Set temp. W.S.C.C. cor.
6.66 Deliver ch. N. bdy. of Tp. at the cor.
of secs. 1.6.7. and 12. where I dash
therefore.
Thence Down
East on a true line bet. secs.
6 and 7.
Over mound covered land through
heavy timber and dense undergrowth
2.00 Descend along ridge.
2.50 Bottom of gulch dec. S. ascend
7.66 Set a limestone 18x8x6 in. 18 in.
in the ground for 1/4 sec. cor.
marked 1/4 on N. face from which
Open iron dam bears N.3° E. 8 links dist.
marked 1/4 B.J.B.J.
Open iron dam bears S.3° E. 19 links dist.

Chains.	
	marked 114 S.B.T.
35.50	Top of ridge brs N. and S. descend
48.50	Gulch brs S. ascend
54.00	Ridge brs N and S. descend
59.50	Gulch 100 ft deep brs S.
63.00	Ridge brs N. and S. descend
69.66	The cor of secs 5.6.7. and 8.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine spruce aspen.
	Mountainous land, heavily timbered and dense undergrowth.
	on 69.66 chs.

	N 0°12' W on a random line between secs 5 and 6.
40.00	Set temp 114 sec cor.
80.07	Intersect N. bdy of Tp 30 lks E of the cor of secs 5.6.31 and 32 which is a lava stone 6×8×8 ins above ground, marked and witnessed as described by the surveyor general.
	Thence Diam
	S. 0°25' E on a true line between secs 5 and 6.
	Over mountainous land through heavy timber and dense undergrowth.
	ascending abruptly.
28.00	Top of hill slopes easterly.
	descend hill brs NE & SW
38.50	Gulch 200 ft deep brs N. 80° E.
	ascend
40.07	Set a lava stone 18×12×4 ins 14 ins in the ground for 114 sec cor.
	marked 114 on N. face from which
	A spruce 12 in diam bears N 34° E 30 lks dist.
	marked 114 S.B.T.
	A spruce 10 in diam bears S 46° W. 18 lks dist.

Subdivisions of T37 S. R7 W.

Chains	marked as S.B.S.
4450	Top of ridge 200 ft high brs N.E. and S.W. descend
6000	Bottom of gulch brs N.E. ascend
7200	Top of ridge brs N 70° E and S 70° W. descend through ravine.
8007	The cor of secs 5, 6, 7 and 8.

Land mountainous
Soil stony, ch rate
Timber pine aspen, spruce.
Mountainous land, heavily timbered and dense undergrowth on 8007 chs.

General Description.
This township is very rough and mountainous and of a lava formation. There is no land suitable for cultivation but it is well adapted to grazing. The Northern and Eastern parts are covered with good timber suitable for lumber and the remainder is densely covered with Aspen timber saplings brush etc. Two small creeks flow across the North western part.
The land is valuable for its timber. There are no indications of mineral.

Alfred B Lewis
U. S. Dep Surv.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

.....

United States Deputy Surveyor.

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

SEAL

.....

.....

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30th, 1898

The foregoing field notes of the survey of the subdivision lines of Township 3 South, Range 7 West of the Salt Lake Base and Meridian, Utah

executed by Alfred B. Lewis under his contract No. 211, dated October 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob Tittsworth

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-246

FIELD NOTES

H.3.B.

OF THE SURVEY OF

South End West Boundary

of

Township 39 South, Range 8 West

Of the Salt Lake Base and Meridian,

In the State of Utah.

AS SURVEYED BY

Alfred B Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced August 5th, 1897

Survey completed August 10th, 1897

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South Boundary Trees Chs 5-76.45
West " " 5-73.00
5-79.00

Names and Duties of Assistants.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Monumentman
Frank L. Goodenow	Flagman

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BOOK A-246

INDEX DIAGRAM.

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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 ....., 189

SEAL

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

South boundary of T 39 S. R 8 W.

Survey commenced August 5 1897 and executed with an L.R. Strassburger transit with solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other reading to 30" of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general of Utah Jan. 26, 1897

It being impracticable to test the instrument by observation on Polaris at the cor of T 39 and 40 S. R 7 and 8 W. on account of distance from camp therefore at my camp which is 1.00 ch N. of Rand Jolly's house and 2 miles 26.00 chs W. of the T 39 cor. I make a point on stone firmly set in ground from which to make my observations, and witness it by an oak stake 3 ft long 2 ins sq driven in ground 1 foot W of point marked D. end. of meridian.

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

August 5 At the point above

South boundary of T39S. R8W. continued

Chains described. Latitude 37°23' N longitude 112° 12' W., at 4h 00m p.m. l.m.t. I set off 37°23' N on the lat. arc. 16°44' N on the decl arc., determine with the solar a true meridian and mark a point thereon on a stone firmly set in the ground 5.00 chs N. of the station.

At 10h 26m p.m. l.m.t. I observe Polaris at Eastern elongation in accordance with the Manual of instructions and mark a point on the line thus determined on a plug driven in the ground 5.00 chs N of my station.

August 5 1897

August 6: At 7h 00m a.m. l.m.t. I lay off the azimuth of Polaris 1°33½' to the West and mark the true meridian thus determined by cutting a small groove in the stone set August 5th on which the true meridian coincides with the mark determined by the solar.

At 7h 30m a.m. l.m.t. I set off 37°23' N on the lat arc: 16°33' N on the decl arc. and mark a point in the true meridian determined with the solar which coincides with the true meridian established by the Polaris observation. Therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 a.m. is N 15°23' W. the angle thus determined, reduced by the table, pag 100 gives the mean mag. decl 15°17' E.

South boundary of T. 39 S. R. 8 W. - continued.

Chains	
	I begin at the cor of Ts 39 and 40 S. Rs 7 and 8 W. which is a sandstone 10 x 8 x 6 ins above ground marked and witnessed as described by the surveyor general.
	Thence Drain West bet secs 1 and 36 with the line. Over mount among 1 and through dense under growth as ending
12.60	Top of ridge brs N. W. and S. E. 200 ft above cor. Descend abruptly.
25.00	Head of canon 300 ft deep brs S. ascend abruptly.
33.00	Top of sharp ridge brs N and S.
40.00	Set a sandstone 15 x 8 x 7 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
57.70	Bottom of deep canon 1000 ft below top of mountain. canon brs S 30° E. ascend abruptly.
79.50	Top of ridge 500 ft above canon Ridge brs. N 30° W and S. 30° E. descend
80.00	Set a sandstone 24 x 16 x 8 ins 18 ins in the ground for cor of secs 1, 2, 35 and 36 marked with 1 notch on E and 5 notches on W. edge from which
	A pine 10 ins diam bears N 71° E 19 lks dist. marked T 39 S. R 8 W. S. 36. B. T.
	A pine 6 ins diam bears S. 35° E. 45 lks dist. marked T. 40 S. R. 8 W. S. 1. B. T.
	A cedar 18 ins diam bears S. 7° E 40 lks dist. marked T. 40 S. R. 8 W. S. 1. B. T.
	A pine 10 ins diam bears S. 32½° W. 48 lks dist.

South boundary of T.39 S. R.8 W. continued

Chains	
	marked T.40 S. R.8 W. S.2. B.T.
	Land mountainous
	Soil stony 4th rate
	Timber pine cedar, sawyer, mountain mahogany
	Mountainous land and dense undergrowth - on 80.00 chs
	August 6: At 3h 30m p.m. l.m.t. Took off 37°23'N on the lat. arc 16°27'N on the decl arc and determined a true meridian with the solar at the cor of secs 1, 2, 35 and 36. Then in Drum Mech bet secs 2 and 35 true line Over mountainous land through dense undergrowth and timber
	Descend abruptly
16.50	Bottom of gulch 500 ft deep drs South: ascend abruptly.
32.50	Top of ridge 200 feet high bns N 20° E and S. 20° W. descend
40.00	Set a sandstone 12 x 8 x 4 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which Apine 7 ins diam bears N 33½° E 34 lks dist. marked 1/4 S.B.T. Apine 16 ins diam bears S 32½° E 101 lks dist marked 1/4 S.B.T.
46.00	Enter bottom of canon 200 feet below 1/4 sec cor. drs South. thence over meadow land and through dense brush.
49.00	Creek 2 lks wide drs S.
50.00	Across bottom ascend abruptly. This bottom land is occupied by Frank Stephens who lives about 1½ mile South in sec 2.

South boundary of T39S R8W. continued

Chains	
60.30	Top of sharp ridge brs N20°W and S.20° E descend
66.00	Cross head of canon brs S.
69.00	Top of spur slopes South descend
80.00	Set a sandstone 18×7×4 ins 11 ins in the ground for cor. of secs 2. 3. 34 and 35 marked with 2 notches on East & notches on Westedges. from which Aspen pine 24 ins diam bears N20°W 165 lks dist. marked T39S. R.8. W B.34 B.T. no other trees within limits I raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
	Land mountainous and rolling. Soil stony and sandy loam 1st and 4th rate.
	Timber pine cedar, willow, sarvis and mahogany. Dense undergrowth and Mountainous land on 80.00 chs.
	Aug 6. 1897.

August 7: At 7 h 00 m. a.m. l.m.t. I set of 37°23' N on the lat. arc: 16°17' N on the decl arc and determined a true meridian with the solar at the cor of secs 2. 3. 34 and 35. thence run West, bet secs 3 and 34 on the line Over mountainous land through dense undergrowth

	Ascend
5.00	Top of hill slopes S. descend
8.00	Enter Rent. Jolly's cultivated field in bottom of Cardwell canon
11.00	leave field, ascend through dense undergrowth.

South boundary of T.39 S. R.8 W. continued.

Chains

21.00 Pass Jolly's springs and house bears N. 2.00 chs dist.

34.50 Top of hill on S side of canon descend

40.00 Set a sandstone 12 x 8 x 7 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high. N of cor. pits impracticable. Ascend over ridges and hollows along S. side of canon.

60.00 Descend

70.00 Enter bottom of canon ascend gradually

79.00 Ascend abruptly.

80.00 Set a sandstone 16 x 6 x 5 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 pine 30 ins diam bears N 62½° E 108 lks dist. marked T.39 S. R.8 W S 34 B.T. no other trees within limits. Raise a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable.

Land mountainous and rolling. Soil stony and sandy loam 1st and 4th-rate.

Timber oak, juni, cedar, pinus mountain mahogany

Mountainous land and dense undergrowth on 77.00 chs.

West bet secs 4 and 33 mountainous

Over mountainous land through dense undergrowth and timber

Ascending abruptly over very broken ridges and hollows.

South boundary of T.39 S. R.8 W. continued.

Chains	
18.40	Top of ridge brs N and S. 500 ft above cor. descend abruptly.
24.00	Head of canon drs N. ascend abruptly.
38.00	Top of ridge 1000 ft above cor. Ridge bears N.W. and S.E.
40.00	Set a sandstone 16 x 12 x 4 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. Descend
52.00	Head of canon drs South. Ascend abruptly
66.00	Top of ridge 1000 ft above cor 1 mile East. brs N. N and S.E. Descend into head of deep canon draining west.
80.00	Set a sandstone 16 x 10 x 8 ins 12 ins in the ground for cor of secs 4, 5, 32 and 33 marked with 4 notches on E and 2 notches on N edges and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits unmarkable.

Land mountainous
Soil stony 4th rate
Timber. cedar pine. scrub oak
Mountainous land and dense undergrowth on 80.00 chs.

August 7: At this cor I set off 16°13' N on the decl arc and at 0 h 00 m 0 s m t observed the sun on the meridian the resulting lat. is 37°23' N

South boundary of T39S. R8W. continued

Pass	West bet. sec. 5 and 32 with
	Dense mountainous land through
	dense undergrowth
	Descending along side of canon
32.00	Ascend and cross clump of
	large yellow pines
40.00	Set a sandstone 18×16×6 ins 14 ins
	in the ground for 1/4 sec. cor.
	marked 1/4 on N. face from which
	Pine 25 in diam bears N37°E 37 lks dist.
	marked 1/4 S.B.T.
	Pine 36 in diam bears S40°W 41 lks dist.
	marked 1/4 S.B.T.
42.00	Pass clump of yellow pines
50.00	descend
55.00	Gulch drs. N. with trees in
	bottom ascend abruptly
67.00	Top of ridge drs N and S. descend
	abruptly.
74.00	Bottom of gulch drs N. ascend
	abruptly.
80.00	Set a sandstone 22×6×6 ins 17 ins
	in the ground for cor. to secs
	5, 6, 31 and 32 marked with 5
	notches on E and 1 notch on
	N edge from which.
	Pine 30 in diam bears N9°E 196 lks dist
	marked T39S. R8W. S.32. B.T.
	Pine 18 in diam bears S32½°W 136 lks dist
	marked T39S. R8W. S.6. B.T.
	no other trees within limits, 8
	rocks 3 mound of stone 2 ft
	base 1½ ft high N of cor. pits
	on proportionable.
	Land mountainous
	and strong soil
	timber pine, cedar, scrub oak
	Heavily timbered on 7.00 chs
	Mountainous land and dense
	undergrowth on 81.00 chs.

South boundary of T39S. R8W continued

Chains	Magnetic
	Mesh, bet secs 6 and 31
	Over mountainous land through dense undergrowth and timber
	The sec cor stands on top of ridge brs N.10° W and S.10° E
	Descend abruptly into large canon
24.00	Foot of steep descent; descend gradually through willow brush and bare timber
29.00	Dry wash drs S.60° W. ascend gradually
31.00	Ascend talus of cliffs on N side of canon, through dense undergrowth and timber.
	Set a sandstone 13×8×8 ins 9 ins in the ground for witness cor. to 1/4 sec cor. marked W.C 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable
40.00	The point for 1/4 sec cor falls in cliffs and can not be set
	Descend
44.00	Set a sandstone 13×8×5 ins 9 ins in the ground for witness cor to 1/4 sec cor marked W.C 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high 10 ft W of cor. it being impracticable to place it on the N. on account of steep ground pits impracticable.
46.00	Dry wash drs South
	ascend through heavy timber
50.00	Descend
55.00	Bottom of small canon drs S.E. Dry wash in bottom.
	Ascend abruptly
70.00	Top of plateau, enter dense oak undergrowth and ascend

South boundary of T39 S R8 W. continued

Chains	
79.45	gradually Set temp cor for Ts 39 and 40 S. R.s. 8 and 9 W. after allowing for contingency of meridian. Land mountainous Soil stony and sandy loam 2nd and 4th rate. Timber pine cedar. scrub oak willow. Mountainous land and dense undergrowth on 79.45 chs. August 7
	August 9: At 8.00 m a.m. l.m.t. I set off 37°23' N on the lat arc 15°42½' W on the decl arc: and determined a true meridian with the solar at the Temp cor to Ts 39 and 40 S. Rs 8 and 9 W Thence I run North on a random line bet Ts 39 S. Rs 8 and 9 W. setting 1/4 sec and sec cors at intervals of 40.00 chs. At 5 miles 79 chs I intersect cor to Ts 38 and 39 S. Rs 8 and 9 W. which is a sandstone 8x10x10 ins above ground marked and witnessed as described by the Surveyor general August. 9.
	August 10: At 8.00 m a.m. l.m.t. I set off 37°28' N on the lat arc 15°24½' W on the decl arc and determined a true meridian with the solar at the cor of Ts 38 and 39 S. Rs 8 and 9 W. Thence I run South on a true line bet secs

N. bdy of T.39 S. R.8 W. continued

Chains	1 and 6
	Over mountainous land through dense undergrowth.
	Ascending along W. side hill
15.00	Top of ridge brs N 20° E and S 20° W.
	Descend along E. hill side
36.50	From this point Scott Cutler house and ranch buildings bears S 89° 40' E
	Another house also belonging to Scott Cutler brs S 76° 05' E.
	Descend abruptly.
39.00	Set a sandstone 16 x 10 x 6 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Cedar 12 ins diam bears S 62° E 42 lks dist. marked 1/4 S. B T.
	Pine 7 in diam bears N 51° W. 71 lks dist. marked 1/4 S. B T.
54.00	Bottom of gulch due E.
	ascend and enter heavy yellow pine timber.
70.60	Top of ridge brs E & W
	From this point Scott Cutters house and ranch buildings bears N 55° 40' E
	Another house also belonging to Scott Cutler bears N 58° 45' E.
	Descend abruptly.
79.00	Set a sandstone 18 x 6 x 6 ins 12 ins in the ground for cor of secs 1, 6, 7 and 12 marked with 5 notches on S and 1 notch on N. edges. from which
	Pine 22 in diam brs N 1/2° E 82 lks dist. marked T39 S R8 W. S.6. B.T.
	Pine 14 ins diam bears S 13 1/2° E 43 lks dist. marked T39 S. R.8 W. S.7. B.T.
	Pine 34 in diam bears N 88° W 110 lks dist. marked T39 S. R.9 W. S.1. B.T.

West boundary of T39 S R8 W continued.

Chains	
	Pine 30 ins diam bears N 48½° W 122 lks dist marked T39 S. R9 W. S. 1. B.T.
	Land mountainous
	Soil stony 4th rate.
	Timber yellow pine, cedar scrub oak
	Heavily timbered on 25.00 chs
	Mountainous land and dense undergrowth - on 79.00 chs.
	South bet secs 7 and 12 with line
	Over mountainous land through dense undergrowth and heavy timber
	Descending along E side of mountain
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable
	Foot of mountain leave heavy timber
43.45	Road leading up and down the N. fork of Virgin
48.00	Lava cliff 100 ft high.
	Descend abruptly into North Fork of Virgin.
51.40	North Fork of Virgin 15 lks wide in bottom of canon drains
	S 20° W. 660 ft below top of mountain
	Ascend abruptly along N. hill slope
72.00	Top of plateau 600 ft above bottom of canon. trs N.E. and S.W.
	Descend through heavy timber over broken mountainous land
80.00	Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for cor to secs 7, 12, 13 and 18 marked with 4 notches on S and 2 notches on N. edges from which

West boundary of T.39 S. R.8 W continued

Chains.	An oak 6 ins diam bears N 17° E 22 lks dist marked T39 S R8 W S.7 B.T.
	A pine 28 ins diam bears S 32° E 93 lks dist. marked T39 S R8 W S.18 B.T.
	A pine 30 ins diam bears S 42° W 289 lks dist. marked T39 S R9 W S.13 B.T.
	A pine 30 ins diam bears N 63° W 250 lks dist. marked T39 S R9 W S.12 B.T.
	Land mountainous
	Soil stony 4th rate.
	Timber pine cedar oak.
	Heavily timbered on 48.00 chs
	Mountainous land and dense
	undergrowth on 80.00 chs.
	South bet secs 13 and 18 continue
	Over mountainous land through
	heavy timber and dense undergrowth.
	Ascending
14.50	Top of ridge brs E and W.
	Dense heavy timber descend
30.00	Bottom narrows W. ascend
36.00	Ridge 1000 feet above N. fork of
	Virgin brs E and W. descend
40.00	Set a sandstone 12 x 8 x 7 ins 8 ins
	in the ground for 1/4 sec cor
	marked 1/4 on W face. and raised
	a mound of stone 2 ft base 1½ ft
	high W. of cor. pits impracticable.
	Descend abruptly
48.00	Edge of cliff 100 ft high
	From foot of cliffs descend
	abruptly
79.00	Foot of steep descent 800 ft below top
	Road from Owens to Bro.
	Buttocks ranch brs E and W.
80.00	Set a sandstone 12 x 8 x 8 ins
	8 ins in the ground for cor of

West boundary of T.39 S. R.8 W. continued

Chains secs 13. 18. 19 and 24 marked with 3 notches on S and N. edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
Land mountainous.
Soil stony 4th rate.
Timber pine. cedar, oak
Heavily timbered 14.50 chs.
Mountainous land and dense undergrowth on 80.00 chs.

August 9. At this cor. I set off 15°38' N on the decl are and at 0 h. 00 m. l. m. t observed the sun on the meridian, the resulting lat is 37°26½' N.

South bet secs 19 and 24 on the line
Over mountainous land through dense undergrowth.
0.25 Bottom of Hay canon, dry wash drs S 76° W.
3.50 Ascend abruptly.
40.00 Set a sandstone 14 x 7 x 6 in 12 ins in the ground for 1/4 sec cor marked 1/4 on W face and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
44.50 Top of ridge.
(1/4 sec cor could not be witnessed as I thought necessary on account of the steepness of the slope on which it stands and the absence of bearing trees therefore at this point I set a sandstone 16 x 10 x 4 ins 11 ins in the ground for 1/4 sec cor to

West boundary of T. 39 S. R. 8 W. continued

Chains	the 1/4 sec. cor. marked W.C. 1/4 on W face from which
	Pine 8 in. diam. bears S. 20 3/4° W. 32 lks dist. marked W.C. 1/4 S.B.T.
	Pine 22 in. diam. bears N. 61 1/2° W. 12 lks dist. marked W.C. 1/4 S.B.T.
	Descend
51.00	Cliffs 100 ft high
	Descend abruptly from bottom of cliffs
76.70	Bottom of gulch. Crs S. 70° W.
	Ascend abruptly.
80.00	Set a sandstone 15 x 8 x 6 ins 10 ins in the ground for cor of secs 19, 24, 25 and 30 marked with 2 notches on S. and 4 notches on Ridges. and raised a mound of stone 2 ft base 1 1/2 ft high W. of cor. pits impracticable.
	Land mountainous
	Soil stony 4th-rate
	Timber very scattering fir & cedar
	Mountainous land and dense undergrowth - on 80.00 Chs.

	South bet secs 25 and 30 on line
	Over mountainous land
	through dense undergrowth
	Ascend abruptly
14.00	Top of spur slopes W. descend over ridges and gulches
40.00	Set a sandstone 14 x 10 x 8 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W face and raised a mound of stone 2 ft base 1 1/2 ft high W. of cor. pits impracticable.
43.00	Bottom of canon crs N.W.
	Ascend and enter fine timber.
50.00	Leave timber. enter dense undergrowth

West boundary of T. 39 S. R. 8 W. continued

Chains	
80.00	Set a sandstone 12 x 12 x 5 ins 8 ins in the ground for cor of Secs 25. 30. 31 and 36 marked with 1 notch on S and 5 notches on N edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. Land mountainous. Soil stony & shiate. Timber yellow pine cedar scrub oak. Heavily timbered on 70.00 chs Mountainous land and dense undergrowth on 80.00 chs.
	South bet secs 31 and 6 continue Over mountainous land through dense undergrowth - Ascending at rapid.
22.00	Top of plateau 1000 ft above gulch descending over ridges and hollows.
30.00	Cedar yellow pine timber
40.00	Set a sandstone 12 x 12 x 4 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which Pine 28 ins diam bears N 59¾° E. 112 lks dist. marked 1/4 S. B. T. Pine 20 ins diam bears N 46° W. 114 lks dist. marked 1/4 S. B. T.
50.00	Leave heavy timber
58.50	Bottom of canon dry S. E. Ascend through dense oak
80.00	The temp cor to Ts 39 and 40 S. Rs 8 and 9 W. Set a sandstone 24 x 6 x 6 ins 18 ins in the ground for cor of Ts 39 and 40 S. Rs 8 and 9 W. marked with 6 notches on each edge. from which

West boundary of T39S. R8W. concluded

Chains

Pine 28 ins diam bears S34½°E 248 lks dist.
marked T40S. R8W. S.6 B.T.
Pine 30 ins diam bears S87°E 242 lks dist
marked T40S. R8W. S.6. B.T.
Pine 30 ins diam bears S48½°W 150 lks dist.
marked T40S. R9W. S.1. B.T.
Pine 16 ins diam bears N16°W 119 lks dist
marked T39S. R9W. S.36. B.T.
Land mountainous.
Soil stony 4th rate.
Timber pine oak
Heavily timbered on 20.00 chs
Mountainous land and dense
undergrowth on 80.00 chs.
Aug 10: 1897.

Note:-
For retracement of E and part of
N bdy see Book "P"
Subdivisions T39S R8W.

Boundaries of T39S R8W.
Latitudes, departures and closing errors.

Lines designated	True bearing	Dist.	Latitudes N.	Latitudes S.	Departures E	Departures W.
N bdy T39S R8W.	East	479.60			479.60	
E bdy T39S R8W.	S0°12 E	478.16		478.16	1.67	
S bdy T39S R8W.	West	479.45				479.45
W. bdy T39S R8W.	North	479.00	479.00			
Convergency.					.55	
			479.00	478.16	481.82	479.45
Totals			478.16		479.45	
Error in lat			.84	Error in	2.37	

General description
This township is very mountainous and slopes to the south.
It is well watered by springs and the North Fork of the Virginia River flows across the N.W. corner.

Alfred B Lewis
U. S. Dep Surv

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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 Alfred B Lewis, 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:

James E Beatty, *Chainman.*
Ernest M Pratt, *Chainman.*
Samuel C Lewis, *Moundman.*
, *Moundman.*
Frank L Goodwin, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred B Lewis, United States Deputy Surveyor, in surveying all those parts or portions of the

of the base and 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 Utah

James E. Beatty, *Chainman.*
Ernest M. Pratt, *Chainman.*
Samuel C Lewis, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Frank L. Goodwin, *Flagman.*

Subscribed and sworn to before me this 31st day of August, 1897

SEAL

Alfred B Lewis
U. S. Dep. Sur.

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S., W. and N. Bdys. Tp. 42 S. R. 6 W.; S. and E. Bdys. Tp. 36 S. R. 3 W.; S. Bdy. Tp. 36 S. R. 2 W.; W. E. and S. Bdys. Tp. 37 S. R. 2 W.; W. E. and S. Bdys. Tp. 38 S. R. 2 W.; S. and W. Bdys. T. 39 S. R. 3 W. of the Salt Lake Base and Meridian.

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S.,W.and N.Bdys. Tp.42 S.R.6 W.;S.and E.Bdys.Tp.36 S.R.3 W.;S.Bdy. Tp. 36 S.R.2 W.;W.E.and S.Bdys.Tp.37 S.R.2 W.;W.E.and S.Bdys.Tp.38 S.R. 2 W.;S.and W.Bdys.T.39 S.R.8 W.of the Salt Lake Base and Meridian.

5718

Final Oath of United States Deputy Surveyor.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ....., United States Surveyor General for ....., bearing date of the ..... day of ....., 189 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

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

United States Deputy Surveyor.

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

SEAL

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 30, 1898

The foregoing field notes of the survey of the Salt Lake Base and Meridian Township 39 South Range 8 West of the Salt Lake Base & Meridian, Utah

executed by Alfred B. Lewis under his contract No. 211, dated October 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob S. Blair

United States Surveyor General.

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

United States Surveyor General.

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BOOK A-246

FIELD NOTES

K.J.B.

OF THE SURVEY OF

Sub-division Lines.

Township 39 South, Range 8 West

Of the Salt Lake Meridian,

In the State of Utah.

AS SURVEYED BY

Alfred B. Lewis, United States Deputy Surveyor,

Under his Contract No. 211, dated Oct 7th, 1896

Survey commenced Aug 11th, 1897

Survey completed Aug 30th, 1897

C—101

Mileage — 59-72-82 ✓
Chains — 7-12 ✓

Contingent —
E. Bdry — 5-78-16 ✓
W. " 1-79-60 ✓

Names and Duties of Assistants.

James E. Beatty	Chainman
Ernest M. Pratt	Chainman
Samuel C. Lewis	Woodsman
Frank L. Goodwin	Flagman

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BOOK A-246

INDEX DIAGRAM.

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

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31	32	33	34	35	36

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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 ....., 189

SEAL

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

..... *, Moundman.*

..... *, Moundman.*

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

SEAL

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

..... *, Axman.*

..... *, Axman.*

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

SEAL

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

..... *, Flagman.*

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

SEAL

Subdivisions of T.39 N. R.8. W.
Retracement of East Boundary

Survey commenced August 11 1897 and executed with an L. R. Strasburger transit with solar attachment
For full description of same with details of complete test reference is made to the field notes of the Survey of the East boundary of T.39 N. R.8.W. dated Aug 5th 1897. in book "O"
I begin at the cor of Tps 39 and 40 S R.7 and 8.W. already described. Thence I run
North on a retracement line bet. secs 31 and 36
At 39.95 chs fall 17 lks. E of the 1/4 sec cor. and at 79.80 fall 28 lks. E of the cor of secs 25. 30. 31 and 36.
Therefore the true course of the line is N 0°12' W.
Thence I run
N 0°12' W bet secs 25 and 30
at 39.80 chs intersect the 1/4 sec cor.
at 79.78 chs intersect the cor of secs 19. 24. 25 and 30.
Thence I run
N 0°12' W bet secs 19 and 24
at 39.87 chs intersect the 1/4 sec. cor.
at 79.70 chs intersect the cor of secs 13. 18. 19 and 24
Thence I run
N 0°12' W bet secs 13 and 18
at 40.00 chs intersect 1/4 sec. cor.
at 80.00 chs intersect the cor of secs 7. 12. 13 and 18
Thence I run
N 0°12' W bet secs 7 and 12
at 38.90 chs intersect 1/4 sec cor.
at 78.88 chs intersect the cor of secs 1. 6. 7 and 12.

No 12 N Set bass stand 6
At 4000 he intersects the meas. cor.
At 8000 he intersects the cor.
of Ss. 38 and 39 S. R 37 and 8 N

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Subdivision of T39S R8W.

Chains	
	Survey begins August 13 1897 and executed with an L. R. Strasburger transit with solar attachment. For full description of same with details of complete tie reference is made to the field notes of the survey of the South boundary of T.39.S. R.8.W. dated August 5th 1897. See book "O"
	August 13: At 8h 00m a.m. l.m.t. I set of 37°23' N on the lat. arc: 14°30' N on the decl. arc and determined a true meridian with the solar at the cor of secs 1. 2. 35 and 36 on the S. boundary of Tp. which I set heretofore. Thence I run N 0°13' W bet secs 35 and 36. Var 15°45' E Over mountainous land through dense undergrowth and timber Descending along E mountain slope.
38.00	Bottom of canon 300 ft below cor. dis S. 20° E. ascend abruptly
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on W. face and raised a mound of stones 2 ft base 1½ ft high. W. of cor. pits impracticable
50.00	Top of slope. descend into canon.
60.00	Bottom of canon dis. N 15° W. ascend abruptly. along E hill slope
80.00	Set a sandstone 14 x 10 x 6 ins 10 ins in the ground for cor of secs 25. 26. 35 and 36 marked with 1 notch on S. and 1 notch on E edges. and raised a mound

Chains of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
Land mountainous
Soil stony w/ clay
Timber cedar pine oakbrush
Mountainous land and dense undergrowth on 80.00 chs.

East on a random line bet secs 25 and 36
40.00 Set temp 1/4 sec. cor.
80.16 Intersect E boundary of Tp 8 lks N of cor to secs 25, 30, 31 and 36 which is a sandstone 10 x 7 x 6 ins above ground firmly set, marked and witnessed as described by the Surveyor general.
Thence I run
N 89°57' W on a true line bet secs 25 and 36.
Over mountainous land through dense undergrowth.
Ascending
40.08 Top of ridge 300 ft above cor. bears N 45° W and S 10° E.
Set a sandstone 13 x 8 x 6 ins 9 ins in the ground for 1/4 sec. cor. marked W on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
Descend
55.00 Head of canon drs S. N. ascend
64.00 Top of ridge brs N. and S.
Descend abruptly.
74.50 Bottom of canon 400 ft below top of ridge. Canon drs S.
ascend abruptly
80.16 The cor of secs 25, 26, 35 and 36
200 ft above canon.
Land mountainous.

Subdivision of 939 B P8 N. continued

Chains	
	Soil stony 4th rate. Timber scrub oak, cedar & pine. Mountainous land and dense undergrowth on 80.16 chs.
	Aug 13: At this cor I set off 14°26' N on the decl arc and at 0 h 00 m l. m. t. observed the sun on the meridian the resulting lat is 37°24' N.
	N 0°13' W bet secs 25 and 26 Over mountainous land through dense undergrowth. Descend into canon
11.00	Bottom of canon brs S 15° E Ascend gradually up canon
30.00	Leave canon and ascend along N side
38.00	Enter yellow pines.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Pine 35 ins diam bears N. 27 3/4° E 77 lks dist. marked 1/4 S. B. T.
	Pine 24 ins diam bears S. 4 1/2° W. 23 lks dist. marked 1/4 S. B. T.
65.00	Top of high ridge brs N.E and S.W. Descend abruptly
77.00	Head of canon 150 ft below top of ridge brs N.W.
	Trail from Lydia's canon to Hay canon brs N.W. and S.E.
80.00	Set a sandstone 16 x 8 x 5 ins 11 ins in the ground for cor of secs 23, 24, 25 and 26 marked with 2 notches on S. and 1 notch on E edges from which

Subdivisions of T39S. R8W. continued

Chains	
	A pine 8 ins diam bears S.27° W. 75 lks dist. marked T39S. R8W. S.26. B.T.
	A pine 9 ins diam bears S22½° W. 92 lks dist. marked T39S. R8W. S.26. B.T.
	no other trees within limits & raise a mound of stones 2 ft base 1½ ft high W. of cor. pits impracticable.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine cedar. aspen.
	Heavily timbered 42.00 chs.
	Mountainous land and dense undergrowth on 80.00 chs.
	S 89°57' E on a random line bet secs 24 and 25
40.00	Set temp 1/4 sec cor.
80.20	Intersect E bdy of Tp 6 lks N. of cor of secs 19. 24. 25 and 30. Thence I run N 89°54' W on a true line bet secs 24 and 25
	Over mountainous land through dense undergrowth ascending
20.00	Top of ridge brs N.W. and S.E. descend
31.50	Bottom of canon brs S30° E Ascend abruptly and enter heavy timber
40.10	A maple 1 in 8 ins diam for 1/4 sec. cor. marked 1/4 S. on N. side from which
	An oak 8 ins diam bears N45° E 34 lks dist. marked 1/4 S. B.T.
	A maple 6 ins diam bears S40° W. 6 lks dist. marked 1/4 S. B.T.
59.00	Top of ridge 500 ft above canon brs W and S. descend abruptly

Subdivisions of 39 S. R 87 W continued

Chain.

80.20 Leave heavy timber
The cor of secs 23.24.25 and 26
about 100 ft below top of ridge
Land mountainous
Soil stony red rock.
Timber pine cedar oak & maple
Heavily timbered and spotted
Mountainous land and dense
undergrowth on 80.20 chs.
August 13.

August 14: At 8h. 00m. a.m. L.M.T.
I set off 37°25' N on the lat. and
14°11' N on the dec and determined
a true meridian with the sola
at the cor of secs 23.24.25 and 26
Thence I run
No°13' W bet secs 23 and 24
Over mountainous land through
dense undergrowth
Ascending over small ridges and
gulches.

30.00 Top ridge 200 ft above cor to
N.E. and S.W. descend along N. slope

110.00 Set a sandstone 13"x10"x1 ins 8 ins
in the ground for 1/4 sec. cor.
marked 1/4 on N. face and
raised a mound of stones 3 ft
base 1½ ft high W. of cor.
pits impracticable

62.00 Enter bottom of canon due N.
Ascend along bottom of canon
through heavy aspen undergrowth

80.00 Set a limestone 11"x3"x1 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. edge from which
A pine 18 ins diam bears N 45° E 191 links
marked B.T. S 13. B.T.

in other trees within limits
I raise a mound of stone 2 ft
base 1½ ft high. No cor. pits
impracticable.
Land mountainous and rolling
Soil stony and sandy to an 4th
and 1st rate.
Timber oak, aspen
Mountainous land on 62.00 chs.
Dense undergrowth on 80.00 chs.

S 89°54' E on a random line bet
secs 13 and 24
40.00 Set temp 1/4 sec cor.
80.00 Intersect E bdy of Tp 75 lks N 30½° W of
cor of secs 13, 18, 19 and 24 found stone
14x10x7 set and witnessed as described by sur gen
from previous retracement of E
bdy I know that sec line bet
secs 13 and 24 will not close
on this corner therefore at this point
I set a limestone 12+8×7 ins
8 ins in the ground for closing
cor of secs 13 and 24 marked C.C.
on W. with 3 grooves on N and
S faces from which
An aspen 6 ins diam bears S 40½° W. 27 lks dist
marked B.T. T39 S. R8 W S 2. 4. B.T.
A pine 6 ins diam bears N 30½° W. 50 lks dist
marked B.T. T39 S. R8 W. S 13. B.T.
I destroy all markings of old cor
pertaining to secs 13 and 24.
Thence I run
N 89°54' W bet secs 13 and 24
Over mountainous land through
dense undergrowth and scattering
timber
Ascend abruptly
3.50 Top of ridge 100 ft above cor.
brs N 30 W and S 30° E descend
12.00 Bottom of canon dr S 30° E.

Subdivisions of Sec. 13, T. 16 N. continued.

Shows	ascend abruptly
314.00	Top of ridge 100 ft above corn. bro. N and A.
110.00	Set a sandstone 12 x 8 x 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which
	Open 12 in. diam. trees S. W. E. & blazed marked 1/4 S.B.J.
	Open 20 in. diam. trees S. & N. & blazed marked 1/4 S.B.J.
115.00	Descend abruptly
64.00	Foot of abrupt descent, over small ridges and ravines
80.00	The cor. of secs. 13, 14, 23 and 24
	Land mountainous
	Soil stony & thin.
	Timber pine oak aspen.
	Mountainous land and dense undergrowth on 80.00 chs
	About 4 chs S.E. of this cor. are numerous springs of freshwater
	August 14: At this cor. I set off 14° 07' N on the ds and at 8 h. 00 m. l. m. t. observed the sun on the meridian, the ascending Sah is 37° 26' N.

	N 0° 13' W. bet secs 13 and 14
	Over mountainous land thickly dense undergrowth.
	Ascending gradually.
19.00	Ascend abruptly
3[illegible].00	Top of plateau 500 ft East N. ft above cor.
	Enter heavy timber and descend
[illegible]	Pass due E. ascend gradually
[illegible]	Set a limestone 18 x 12 x 8 ins 16 ins in the ground for 1/4 sec. cor.

Subdivisions of T.39.N. R.8.W. continued

Chains	
	marked 1/4 on W. face from which
	A pine 8 ins diam bears S.77° E. 37 lks dist.
	marked 1/4 S. B.T.
	A pine 38 ins diam bears N.11½° W. 85 lks dist.
	marked 1/4 S. B.T.
52.00	Top of low ridge bts S.E. and N.W.
	descend gradually
66.00	Enter bottom with dense aspen
	and undergrowth
72.00	Ascend abruptly and leave dense
	aspen.
80.00	Set a limestone 12 x 8 x 8 ins 8 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
	A pine 11 ins diam bears N.39° E. 26 lks dist.
	marked T.39.S. R.8.W. S.12. B.T.
	A pine 8 ins diam bears S.36° E 67 lks dist
	marked T.39.S. R.8.W. S.13. B.T.
	A pine 10 ins diam bears S.31½° W. 34 lks dist
	marked T.39.S. R.8.W. S.14. B.T.
	A pine 14 ins diam bears N.12½° W. 45 lks dist.
	marked T.39.S. R.8.W. S.11. B.T.
	Land mountainous and rolling.
	Soil stony 3d and 4th rate.
	Timber pine aspen oak.
	Mountainous land or heavily timbered on 80.00 chs
	Drainage undrainable on 80.00 chs

	S.89°54' E on a random line bet
	secs 12 and 13.
40.00	Set temp 1/4 sec cor.
80.22	Intersect E bdy of Tp 66 lks N° 12 W of
	cor to secs 7.12.13 and 18 a sandstone 16 x 10 x 8 ins set and witnessed as described by surveyor.
	Knowing from yesterday's accounts of
	the east bdy of Tp that the line will
	not close on the cor of secs 7.12
	13 and 18. Therefore at this point
	I set a sandstone 14 x 6 x 6 ins 10 ins

Chains	
	in the ground for closing cor to secs 12 & 13
	marked C.C on W. face with 4
	grooves on S. and 2 grooves on
	N. faces from which
	Pine 12 ins diam bears S 77° W. 68 lks dist.
	marked C.C. T39 S. R8 W. S.13 B.T.
	Pine 8 ins diam bears N. 6½° W. 40 lks dist.
	marked C.C. T39 S. R8 W. S.12 B.T.
	Selecting all markings of old
	cor pertaining to secs 12 and 13.
	Thence I run
	N 89°54' W bet secs 12 and 13 on true line
	Over mountainous land through
	scattering timber and dense
	undergrowth
	Descending
17.50	Dry wash in valley drs N 70° E.
	ascend gradual
20.00	Wagon trail crossed - heavy timber.
32.00	Ridge trs N. and S. descend
34.50	Hollow drs South ascend
37.00	Ridge trs N. and S. descend.
40.11	Set a sandstone 18x14x6 ins 12 ins
	in the ground for 1/4 sec cor
	marked 1/4 on N. face from which
	Pine 16 ins diam bears S 32° W. 48 lks dist.
	marked 1/4 S. B.T.
	Pine 12 ins diam bears N 54° W 70 lks dist.
	marked 1/4 S. B.T.
40.50	Bottom of gulch drs S.E. ascend
70.00	Ridge trs N.W. and S.E. descend
71.50	Ravine drs S.E. ascend
73.00	Ridge trs N.W. and S.E. descend
75.00	Ravine drs S.E. ascend
80.22	The cor of secs 11, 12, 13 and 14
	Land mountainous.
	Soil stony 3d and 4th rate
	Timber pine aspen cedar
	Heavily timbered on 60.22 chs
	Mountainous land and dense
	undergrowth on 80.22 chs.
	August 14 1897

Subdivisions of T39 S. R8 W. continued

Chains	
	August 16: At 8h 00m a.m. L.M.T. I set off 37°26' N on the lat. arc: 13.33 N on the dist arc and determined a true meridian at the cor. of secs 11, 12, 13 and 14.
	Thence I run
	N 0°13' W bet secs 11 and 12
	Over mountainous land through dense undergrowth and timber.
	Ascend
10.00	Top of ridge brs N.W. and S.E. descend
23.00	Bottom of gulch brs S.E. ascend through dense undergrowth and scattering timber
40.00	Set a limestone 14 x 8 x 6 in 10 in in the ground for 1/4 sec cor. marked 1/4 on W. face from which
	A pine 14 in diam bears S 11° W. 105 lks dist marked 1/4 S.B.T.
	A pine 15 in diam bears N 43 3/4° W. 81 lks dist. marked 1/4 S.B.T.
53.00	Top of ridge 300 ft above gulch brs E and W.
64.00	Descend through fallen timber
80.00	Set a limestone 12 x 10 x 10 in 8 in in the ground for cor of secs 1, 2, 11 and 12 marked with 5 notches on S and 1 notch on E edges from which
	An aspen 8 in diam bears S 81 1/2° E 127 lks dist marked T39 S. R8 W. S.12. B.T.
	An aspen 6 in diam bears N 46 1/2° W. 87 lks dist marked T39 S. R8 W. S.2. B.T.
	A pine 16 in diam bears N 74 1/2° E 140 lks dist. marked T39 S. R8 W. S.1. B.T.
	no other tree within limits I raise a mound of stones 2 ft base 1 1/2 ft high N of cor pits impracticable.
	Land mountainous and rolling
	Soil stony sand & shale
	Timber pine aspen

Subdivision of T.39 S. R.8 W. continued.

Chain	
	Mountainous land on 69.00 chs Dense undergrowth and timber on 80.00 chs.
	S 89° 30' E on a random line bet secs 1 and 12.
20.00	Set temp 14 sec cor.
79.90	Intersect E bdy of Tp 213 chs N 0° 12' W of cor to secs 1, 6, 7 and 12 and stone 14 x 12 x 6 ins set and witnessed as described by surveyor. Bearing from intersection of E bdy of Tp that this line will not close on cor of secs 1, 6, 7 and 12. Therefore at this point set a limestone 14 x 12 x 6 ins in the ground for closing cor. for secs 1 and 12 marked C.C. on N. face, with 2 grooves on S. and 1 groove on N faces from which Open 20 links diam bears S. 19½° W. 42 lks dist marked C.C. T.39 S. R.8 W. S.1 S.12 B.T. Open 20 links diam bears N. 70° W. 68 lks dist marked C.C. T.39 S. R.8 W. S.1. B.T. Detailing all markings of stone pertaining to secs 1 and 12 Thence Train N 89° 30' W bet secs 1 and 12 Over mountainous land thickly heavy timber and dense undergrowth descending
35.00	Bottom of gulch dis N. 10° W. ascend abruptly
39.95	Set a limestone 12 x 4 x 7 ins 8 ins in the ground for 14 sec cor marked 14 on N. face from which Open 6 links diam bears N 60° E 12 lks dist. marked 14 S.B.T. Open 20 links diam bears S. 75° W. 32 lks dist. marked 14 S.B.T.
47.00	Top of ridge bears N and S descends gradually.

Chains	
79.90	The cor of sec 1, 2, 11 and 12. Land mountainous. Soil stony 3d and 4th rate. Timber pine aspen. Heavily timbered Mountainous and dense undergrowth on 79.90 ch.
	Aug 16: At this cor I set off 13°30' N on the decl arc and at 0h 00m. 1.0 m.t observed the sun on the meridian the resulting lat is 37°27' N.
	N 0°13' W on a random line bet secs 1 and 2
40.00	Set temp 1/4 sec cor.
78.10	Intersect W bdy of Tp 30 lks E of cor of secs 1, 2, 35 and 36 which is a limestone 10 x 6 x 8 ins above ground formly set, marked and witnessed as described by the surveyor general.
	Thence I run S 0°26' E on a true line bet secs 1 and 2. Over mountainous land through heavy timber and dense undergrowth. Descend
33.00	Bottom of gulch dis S.E. ascend
38.10	Set a limestone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on W face from which
	Pine 14 ins diam bears S 13½° E 12 lks dist. marked 1/4 B.T.
	Pine 30 ins diam bears S 76½° W 108 lks dist, marked 1/4 B.T.
	Top of ridge brs E and W, descend
41.00	Leave heavy timber and dense undergrowth

Subdivisions of T39A. R.8.W. continued

Chain	
51.00	Dry wash in valley dir E ascend and enter timber, and dense undergrowth
60.00	Enter fallen timber and dense undergrowth. Leave heavy timber
78.10	The cor of secs 1, 2, 11 and 12.
	Land mountainous.
	Soil stony and sandy loam
	2nd and 4th rate.
	Timber pine aspen.
	Heavily timbered on 70.00 chs.
	Dense undergrowth on 68.10 chs.
	Mountainous land on 78.10 chs.
	August 16: 1897

August 17: 1897. At 7h 00m a.m. l.m.t. I set off 37°28' N. on the lat arc 13°16' N on the decl arc and determined a true meridian at the cor of 2, 3, 34 and 35 on the S. bdy of Tp which I set heretofore.

Thence I run

N 0°13' W bet secs 34 and 35

Over mountainous land through dense undergrowth and scattering timber.

Ascending abruptly along E side of ridge

14.45	Top of ridge bears N 15° E and S 15° W. descend into head of gulch
17.00	Head of gulch dir S.W. ascend
28.00	Top of ridge bears E and W. descend
34.00	Gulch dir easterly. ascend
39.50	Top of ridge bears E and W. descend
40.00	Set a sandstone 16 x 8 x 4 in 11 in in the ground for 1/4 sec cor. marked 1/4 on N. face from which a pine 8 in diam bears N 83° E 9 lks dist marked 1/4 S. B. T.

Subdivisions of Sec. P.S.M. continued

Chains

Gen. 2 chs diam. bears N 9° W. 54 lks dist. marked 14 S. B.T.

41.50 Gulch des E ascend

51.50 Ridge brs E and W. descend

72.00 Trail brs N 65° W and S 65° E leading up canon

73.00 Dry wash des S 65° E in mouth of canon ascend

80.00 Set a sandstone 14×10×10 in 10 ins in the ground for cor of secs 26 27. 34 and 35. Marked with 1 notch on S. and 2 notches on E edge and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.

Land mountainous

Soil stony 4th rate.

Timber scrub pine cedar and oak.

Mountainous land and dense undergrowth on 80.00 chs.

East on a random line bet secs 26 and 35

9.00 Top of perpendicular ascent impracticable to measure over. Set a temp Meander Corr. Then offset as follows.

North 10.00 chs. Then on offset line East 68.00 chs (counting from sec cor) then South 10.00 chs to the random line on which ab

80.10 Intersect W and S. line at cor of secs 25. 26. 35 and 36.

Thence Drum.

West on a true line bet secs 26 and 35.

Over mountainous land through dense undergrowth - ascending abruptly

22.10 Top of sharp ridge brs N and S

Subdivisions of T.39 S. R.87 W. continued

Rem.	On account of impassable brake at this point I set a sandstone 20×12×8 ins. 15 ins. in the ground for section cor. to 14 & 23 cor. marked N.C. 14 on N. face and raised a mound of stone 2 ft base 1½ ft high. N. 45° W. pits impracticable. Thence offset North 10.00 chs. thence on offset line West descending.
40.05	The W. 1/4 cor. falls in impassable brake, and cannot be set
41.10	Offset South 10.00 chs to true line set a sandstone 12×8×7 ins 8 ins in the ground for section corner marked N.C. on N. face and raised a mound of stone 2 ft base 1½ ft high. N. 45° W. pits impracticable. Foot of brake 500 ft below top of ridge.
74.00	Bonyard dry S.W.
76.25	Spring branch 3 lks wide dry South in bottom of canon ascend
78.10	Trail from Quincy canon to Weyanoke Pass N. and S.
80.10	The cor. of secs 26, 27, 34 and 35 Land mountainous. Soil stony red earth. Timber scrub oak, pine, cedar, aspen. Mountainous land and dense underwood on 80.10 chs.

August 17: At this cor. I set off 13° 11' N on the d.l. and observed the sun on the meridian at 0 h. 00 m. 0 s. m.t. The resulting lat. is 37° 24' N.

Subdivisions of T.39 S. R.5 W. continued

Chain.	N 0.13 W. bet secs 26 and 27
	Over mountainous land through
	dense undergrowth.
	ascend
12.00	Top of ridge 150 ft above cor brs E and N.
16.50	Gulch drs E. ascend
27.00	Top of ridge 300 ft high. brs N.W.
	and S.E. descend abruptly.
40.00	Set a sandstone 14 x 8 x 6 ins 10 ins in
	the ground for 1/4 sec cor. marked
	1/4 on W. face and raised a mound
	of stone 2 ft base 1½ ft high W of
	cor. pits impracticable.
52.00	Bottom of canon drs S.E.
	ascend abruptly
77.05	Top of ridge 800 ft above bottom
	of canon
	As the cor falls on steep side
	hill where it will be difficult
	to reference it properly therefore
	at this point set a sandstone
	16 x 8 x 8 ins 11 ins in the ground
	for witness point, marked W.P.
	on W face and raised a mound
	of stone 2 ft base 1½ ft high
	W of point pits impracticable.
	Descend abruptly.
80.00	Set a sandstone 12 x 10 x 4 ins 8 ins in
	the ground for cor of secs 22,
	23, 26 and 27 marked with 2
	notches on S. and E. edges and
	raised a mound of stone 2 ft base
	1½ ft high W of cor pits impracticable
	Land mountainous
	Land stony with rate.
	Timber oak pine cedar
	Mountainous land and dense
	undergrowth on 80.00 chs

Subdivision of T39 S. R8 W continued.

Chains.	
	Back on a random line bet secs 23 and 26.
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S. line at cor of secs 23, 24, 25 and 26
	Thence Drain
	West on a true line bet secs 23 and 26.
	Over mountainous land through dense undergrowth.
	Descend abruptly
3.00	Gulch drs N50°W
3.70	Trail from Lydia Canon to Hay canon brs N50°W and S20°E
	ascend abruptly. 150 ft
15.00	Top of spur slopes N. descend abruptly
20.00	Gulch drs N 150 below top of spur. ascend abruptly.
35.00	Ridge 300 ft above gulch brs N and S. descend abruptly
40.00	Set a Sandstone 16x7x4 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
50.00	Enter bottom of canon 500 ft below cor.
51.00	spring branch 2 lks wide drs S.
52.00	ascend abruptly
54.50	Ridge 100 ft above spring branch ascend
60.00	Gulch drs S.E. ascend abruptly.
80.00	The cor of secs 22, 23, 26 and 27
	Land mountainous.
	Soil stony 4th rate
	Timber scrub oak pine cedar aspen
	Mountainous land and dense undergrowth on 80.00 chs.
	August 17.

Acc bearings of T.39.S. R.8.W. - continued

Chains	
	No. 13 N bet sec 22 and 23
	Our mountainous land through
	dense undergrowth -
	Descend abruptly
6.00	Bottom of gulch 300 ft below top
	of ridge bs S. 50° E ascend abruptly
15.70	Ridge 200 ft above gulch bs
	N.W. and S.E. descend
18.00	Small ravine bs Easterly ascend
29.00	Ridge bs S.E. and N.W. descend
40.00	Set a sandstone 16 x 7 x 4 in 11 ins in
	the ground for 14 sec cor marked
	14 on W. face from which
	Open 20 ins diam. bears N. 0° W. 23 lks dist
	marked 14 S.B.T.
	no other trees within limits raise
	a mound of stone 2 ft base 1½ ft
	high W. of cor pits impracticable.
49.50	Bottom of gulch 200 feet below
	ridge bs E. ascend abruptly.
60.00	Ridge 200 ft above gulch bs E and W
	descend abruptly over ridges and
	ravines thick scattering timber.
80.00	Set a sandstone 14 x 12 x 4 in 10 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
	Open 27 ins diam bears N 39½° E 135 lks dist
	marked T.39.S. R.8.W. S.14 B.T.
	Open 26 ins diam bears S 42½° E 189 lks dist
	marked T.39.S. R.8.W. S.23 B.T.
	Open 24 ins diam bears S. 46° W. 90 lks dist
	marked T.39.S. R.8.W. S.22 B.T.
	no other trees within limits. I
	raise a mound of stone 2 ft
	base 1½ ft high W. of cor. pits im-
	practicable.
	Land mountainous
	Soil stony 4th rate
	Timber oak, pine, aspen, cedar.

Subdivision of T.39 S. R.8 W - continued

Chains	Mountainous land and dense undergrowth on 80.00 chs
	East on a random line between secs 14 and 23.
40.00	Set temp 14 sec cor.
80.14	Intersect N and S line 10 lks S of cor of secs 13, 14, 23 and 24.
	Thence S 1 mn
	S 89°56' W on a true line between secs 14 and 23.
	Over mountainous land through dense undergrowth.
	Ascend abruptly.
19.50	Top of ridge 350 ft above cor bears N and S. descend abruptly
34.00	Gulch dis S. ascend abruptly.
40.07	Set a sandstone 16 x 10 x 4 ins 11 ins in the ground for 1/4 sec cor marked 14 on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
42.70	Top of ridge 150 ft above gulch brs N. and S. descend
60.00	Bottom of canon 200 ft deep dis S. ascend abruptly.
66.50	Top of ridge 180 ft above canon descend abruptly.
72.20	Trail from Ordwell canon to Hay canon brs N 30° W and S 30° E.
72.40	Spring branch 1 lk wide in bottom of canon brs S 30° E ascend abruptly. through heavy timber
80.14	The cor of secs 14, 15, 22 and 23.
	Land mountainous
	Trail along 4th rate
	Timber oak, pine, cedar, aspen
	Heavily timbered on 77.4 chs
	Mountainous land and dense undergrowth on 80.14 chs.

Chains.	Aug 18. At this cor. I set off 12°57' N on the declinat and at 0 h 00 m l.m.t observed the sun on the meridian the resulting lat is 37°26' N.
	N 0°13' W bet secs 14 and 15 Over mountainous land through heavy timber and dense undergrowth. descending abruptly.
7.20	Bottom of canon with trail from Cedarwell and Lydia's canon to Hay canon brs N.W. and S.E.
	Spring branch 2 lks wide drs S.E.
	Ascend abruptly. leave heavy timber
15.00	Top of ridge 200 ft above canon brs N.W. and S.E.
	descend gradually through dense undergrowth and scattering timber
33.90	Spring branch 2 lks wide drs S 10° E. ascend abruptly
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which
	Pine 24 ins diam bears N 16 2/3° E 110 lks dist. marked 1/4 S.B.T.
	Pine 18 ins diam bears N 27 1/2° W. 135 lks dist. marked 1/4 S.B.T.
60.00	Top of slope. descend into ravine and leave timber and enter dense oak brush.
63.00	Ascend gradually
80.00	Set a sandstone 12 x 12 x 5 ins 8 ins in the ground for cor of secs 10, 11, 14 and 15 marked with 4 notches on S. and 2 notches on E edges and raised a mound

Chains	
	of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Land mountainous
	Soil stony 4th rate
	Timber scrub oak pine aspen cedar.
	Heavily timbered on 7.20 chs.
	Mountainous land and dense undergrowth on 8.00 chs.
	N 89°56' E on a random line bet secs 11 and 14.
40.00	Reset temp ¼ sec cor.
80.20	Intersect N and S line 14 lks N of cor of secs 11, 12, 13 and 14
	Thence Drun
	N 89°58' W. on a true line bet secs 11 and 14
	Over mountainous land through scattering timber and dense undergrowths.
	descending
4.50	Small ravine drs S.E. ascend
7.00	Ridge drs N.W. and S.E. descend
10.00	small ravine drs S.E.
	over small ridges and ravines ascending
40.10	Set a limestone 12×12×8 ins 8 ins in the ground for ¼ sec cor marked ¼ on N face from which
	A pine 14 ins diam bears S 61° E 25 lks dist. marked ¼ S.B.T.
	A pine 10 ins diam bears N 11½° W 27 lks dist marked ¼ S.B.T.
50.50	Edge of abrupt descent, and pink cliffs have timber and and descend abruptly drs N.W. ¾ S.E
55.00	Enter timber.
63.00	Bottom of gulch 400 ft below top of plateau drs S.

Subdivisions of 139 R. 28 W. continued

Chains	
	Ascend abruptly
73.00	Top of ridge 150 ft above canon
	bears N and S descend
80.20	The cor of secs. 10, 11, 14 and 15
	Land mountainous
	Soil stony shale.
	Timber pine cedar oak and
	aspen.
	Mountainous land and dense
	undergrowth on 80.20 chs.
	August 18: At 5h 00m p.m. l.m.t.
	Set off 37°26' N on the lat are
	12°48' N on the dec are and
	determined a true meridian at
	the cor of secs 10, 11, 14 and 15
	August 18.

August 19: At 8h 00m a.m. l.m.t.
Set off 37°26' N on the lat arc:
12°35' N on the dec arc and
determined a true meridian
at the cor above named which
coincides with the meridian
determined Aug. 18 by p.m. observation.
Thence Down
N 0°13' W bet secs 10 and 11:
Over mountainous land through
dense oak and aspen undergrowth
ascending.

13.00	Enter scattering pine timber
15.00	Dry wash in bottom of canon
	bears S 30° W. ascend abruptly
32.00	Top of spur of red cliffs 100 ft
	above cor. bear S 30° W and
	N 30° E.
	descend abruptly over cliff
	on west side of plateau
40.00	a sandstone 24 x 18 x 12 in
	firmly imbedded in ground

Subdivisions of T39 R.18.W. continued

Chains	
	for 1/4 sec cor. marked 1/4 on N face from which
	Spruce 18 in diam bears S.9° E. 32 lks dist. marked 1/4 S. B.T.
	Spruce 16 in diam bears N.8° W. 48 lks dist. marked 1/4 S. B.T.
	Along steep hillside near foot of point or end of ridge descending
19.00	spring branch 1 lk wide in bottom of large wash dis N.
	ascend abruptly
74.50	Top of ridge brs E and W.
	descend abruptly
80.00	Set a sandstone 16 x 8 x 8 in. 11 in 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
	Spruce 12 in diam bears S 69° E. 190 lks dist marked T.39 S. R.18 W S.11. B.T.
	no other trees within limits & rare a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
	Land mountainous.
	Soil stony with rate
	Timber pine scrub oak aspen & cedar.
	Mountainous land and dense undergrowth on 80.00 chs.
	S 89°58' E on a random line bet secs 2 and 11
40.00	Set temp 1/4 sec cor
80.00	Intersect N and S line at the cor of secs 1, 2, 11 and 12
	Thence S run
	N 89°58' W on a true line bet secs 2 and 11

Subdivision of S. 39. T. R.S.N. continued

Chains. Over mountainous land through fallen timber and dense undergrowth. descending

20.00 Center of valley bears N.
ascend

24.00 Leave fallen timber, enter heavy timber

32.00 Top of ridge bears N and S.
descend.

40.00 Set a limestone 14×12×4 ins 10 ins in the ground for 1/4 sec. cor marked 1/4 on N face from which
Open 16 ins diam bears N.11°E. 35 lks dist marked "1/4 S.B.T."
Open 9 ins diam bears S.66½°W 70 lks dist marked "1/4 S.B.T."
Ascend

49.00 Top of slope descend gradually

71.00 Edge of plateau leave heavy timber, enter scattering timber and descend abruptly

80.00 The cor of secs 2, 3, 10 and 11.
Land mountainous.
Soil stony 3d and 4th rate.
Timber pine, aspen, ash and oak
Heavily timbered on 47.00 chs
Mountainous land and dense undergrowth on 80.00 chs.

August 19: At this cor I set off 12h 32m Now the dial are and at a 200 m. limit, observed the sun on the meridian the resulting lat is 37°57' N.

N 13' W on a random line bet secs 2 and 3

41.00 Set temp 4 x 2 x 30 cor.
At this point I find it impossible

to run farther North on account of impassable cliffs. Therefore I run on offset line as follows.
Run west 40.00 chs to a point, thence N 0° 13' W on offset line.

38.25 Intersect North bdy of township 20 lks East of 1/4 sec cor Bet secs 3 and 34.
Thence I run S 0° 22' E on offset line ascending.

36.10 Ridge brs NE & SW.

38.25 Offset East 40.00 chs where I establish a true 1/4 sec cor as follows.
Set a limestone 20 x 12 x 4 ins 15 ins in the ground for 1/4 sec cor
Marked 1/4 on west face from which.
A pine 26" diam brs S 54° E 6 lks dist
Marked 1/4 S.B.T.
A pine 24" diam brs S 6° W 23 lks dist
Marked 1/4 S.B.T.
Thence S 0° 22 E on true line. Descending.

50.25 Cross Bottom filled with springs.

55.15 Ascend abruptly.

60.85 Top of ridge E and west
Descend.

71.15 Gulley chs westerly.

78.25 Intersect cor of secs 2, 3, 10, and 11.

Land Mountainous.
Soil Stony 3rd and 4th rate.
Timber pine aspen and oak.
Mountainous land and dense undergrowth on 78.25 chs.

Chains	
	August 20: At 8h00m a.m. l.m.t. Set off 37°23' N on the lat. arc: 12°16' N on the decl. arc: and determined a true meridian with the solar at the cor. of secs 3, 4, 33 and 34 on S. bdy of Tp. which I set herefore.
	Thence I run
	N0°14' W between 33 and 34
	Over mountainous land through dense undergrowth and timber
	Descend
2.00	Small gulch dir S.E.
	ascend abruptly.
13.00	Top of ridge 300 ft above gulch
	dir S 55° E and N 55° W.
	descend abruptly.
32.50	Enter bottom of canon 300 ft below ridge
33.00	Cattle trail. brs N.W. and S.E.
	ascend gradually
40.00	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
	Descend gradually
44.00	Cattle trail brs N.W. and S.E.
	Top of ridge, enter valley (dry)
48.00	Cross valley, enter another canon dir S. thence continue up canon ascending over small ridges and hollows.
80.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for cor of secs 27, 28 33 and 34 marked with 1 notch on S. and 3 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable

Subdivisions of R.2.W. R. 7 W. continued

Chain.	Rocky mountainous on dotting point strong sand, loam sand and wet roots. Timber oak, fir, cedar. Mountainous sand on rocks. Dense undergrowth on secs. 4
	East on a random line bet. secs 27 and 34
40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S. line at cor of secs 26, 27, 34 and 35 Thence Drum West on a true line bet secs 27 and 34 Over mountainous sand through dense undergrowth Ascend abruptly
11.50	Ridge bro N.W. and S.E. ascend
13.00	Enter heavy timber.
15.00	Bottom of canon dir S 50° E ascend
19.00	Cattle trail bro N 50° W and S 50° E along S side of bottom of canon
22.50	Top of ascent descend
23.50	small gulley dir N. ascend
39.50	Bottom of canon dir N 70° E ascend.
40.00	Set a sandstone 12×12×6 ins. sunk in the ground for 1/4 sec cor marked 1/4 on N face from which a Ofset 30 ins diam bears N 2° E 39 links marked W.C.B.T. Ofset 28 inches diam bears S 12° W. 32 links marked 1/4 C.B.T.
41.50	Branch of canon dir N 70° E ascend abruptly and leave heavy timber.
69.40	Top of mountain ridge 800 ft above 1/4 sec cor. bro N and S. descend abruptly
80.00	The cor of secs 27, 28, 33 and 34

Subdivisions of T. 39 S. R. 8. W. continued

Chain. Land mountainous
Soil stony & shale.
Timber fine oak cedar.
Heavily timbered on 28.50 chs.
Mountainous land and dense
undergrowth on 80.00 chs.

August 20: At this cor. I set
off 12h 12m N on the dist. arc: and
at a h. 00 m. l. m t. observed the
sun on the meridian the resul-
ting lat is 37°24' N.

N 0°14' W bet secs 27 and 28.
Over mountainous land through
dense undergrowth.
Ascending abruptly.
24.00 Top of mountain ridge 800 ft above
cor. bns E and W. descend abrup-
tly.
40.00 Set a sandstone 18 x 6 x 5 ins 12 ins in
the ground for 1/4 sec. cor. marked
1/4 on N. face from which
An oak 7 ins diam bears N 10° E. 70 lks dist.
marked 1/4 S. B. T.
A pine 16 ins diam bears N 33° W. 52 lks dist.
marked 1/4 S. B. T.
50.50 Bottom of gulch 500 ft below
top of ridge dis W. ascend
60.00 Top of open 100 ft above canon
on S. W. and N. E. descend.
70.00 Enter canon dis S. ascend grad
ually.
80.00 Set a sandstone 12 x 7 x 6 ins 8
ins in the ground for cor of
secs 21. 22. 27 and 28 marked wit
2 notches on S and 3 notches on
E edges and raised a mound
of stone 2 ft base 1½ ft high.

Subdivisions of T. 39 S. R. 8 W. - continued

Chains.	
	N. of cor. pits impracticable. Land mountainous. Soil stony & shrate. Timber oak aspen pine and cedar. Mountainous land and dense undergrowth on 80.00 lks.
	East on a random line between 22 and 27
40.00	Set temp 1/4 sec. cor.
80.24	Intersect N and S line at cor of secs 22, 23, 26 and 27. Thence I run West on a true line between 22 and 27 Over mountainous land through dense undergrowth; ascend
3.46	Top of ridge brs N. W and S.E. raised a large mound of stones on top of ridge descend abruptly.
26.00	Gulch 100 ft below ridge brs S.E. ascend
40.12	Set a sandstone 12 x 8 x 6 in. 8 in. in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stones 2 ft base 1½ ft high N of cor. pits semi-practicable
44.00	Ridge 300 ft above canon brs N 30° W and S 30° E descend
52.50	Gulch 150 ft below ridge brs S.E. ascend
64.00	Ridge 300 ft above gulch brs N and S. descend abruptly.
73.00	Gulch 250 ft below ridge brs S 20° W. ascend
80.24	The cor of secs 21, 22, 27 and 28. Land mountainous.

Observations of T.39.S. R.8 W continued

Trees: Pail Berry white
Lemon cat, Douglas aspen.
Mountainous land and dense
undergrowth on 1.2.4 chs.
August 20

August 21: At 8 h. 0 m. a.m. l.m.t.
I set off 27°55' N on the bar are
11°55' Nan the det are and determined a time meridian at the
cor of secs 21, 22, 27 and 28.
Thence Drum
N. 0°10' W. bet secs 21 and 22
Over mountainous land through
dense undergrowth.
Ascending.
2400 Top of ridge 500 ft above cor bears
N. East S.W. descend
1000 Set sandstone 16x12x4" 11 ins in the
ground for 1/4 sec cor marked
1/4 on N face from which
Witness meridian bears S40½°E 98 lks dist.
marked 1/4 S.B.T.
Witness meridian bears N58½°W. 17 lks dist.
marked 1/4 S.B.T.
1600 Cross 500 ft below ridge crest
S.W. ascend
2300 Ridge 200 ft above canon
bot S.W. and N.E. descend
2500 Set sandstone 16x10 11 ins 11 ins in
the ground for cor of secs 15, 16
21 and 22 marked T39S on N.E.
and S.W. on S.E. faces well 3 notches
on S and E edges from which
Witness meridian bears N10°W 105 lks dist
marked T39S R8W S.16 B.S.
no other trees within limits
Stones a mound of stone 2 ft
high 1 ft high W. of cor pits
impracticable.
Land mountainous

Subdivision of T39S. R8W. continued

Chains	
	Soil stony 4th rate. Timber oak pine cedar aspen. Mountainous land and dense undergrowth on 80.00 chs
	East on a random line bet secs 15 and 22.
40.00	Set temp 1/4 sec cor.
80.14	Intersect N and S line 10 lks S of cor of secs 14, 15, 22 and 23 Thence Drum S 89°56' W on a true line bet secs 15 and 22 Over mountainous land through dense undergrowth and heavy timber. Ascending abruptly along N.E. mountain side
40.07	Set a sandstone 14 x 6 x 5 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which An aspen 4 ins diam bears S 7° W 8 lks dist. marked 1/4 S.B.T. An aspen 6 ins diam bears N 53 1/2° W 21 lks dist marked 1/4 S.B.T. ascend gradually.
56.50	Top of ridge 800 ft above sec cor. bears N and S. leave timber and descend
80.14	The cor of secs 15, 16, 21 and 22 Land mountainous. Soil stony 4th rate. Timber aspen pine oak cedar Heavily timbered on 56.50 chs. Mountainous land and dense undergrowth on 80.14 chs.
	August 21. At this cor Decl of 11°52' N on the dist. and also 2.00 lks observed this sun on the meridian

Subdivisions of T.39S. R.8W. continued

Chains	
	The resulting lat is 37°26' N.
	N0°14' W. bet secs 15 and 16 Over mountainous land through dense undergrowth, descending
5.50	Bottom of hollow ascend
15.00	Ridge brs S60° W and E. descend
22.00	Gulch 150 ft below ridge brs S 70° W. ascend
31.00	Ridge 150 ft above gulch brs N.E. and S.W. descend
40.00	Set a sandstone 14x7x6 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which an aspen 8 ins diam bears N59½° E 40 lks dist, marked 1/4 S.B.T.
	An aspen 10 ins diam bears S.9° W. 17 lks dist. marked 1/4 S.B.T.
44.00	Gulch 150 ft deep brs S.W. ascend.
64.00	Top of divide and gr bears N.W. another S40° W and another East. descend abruptly.
80.00	Set a sandstone 14x12x8 ins 10 ins in the ground for cor of secs 9, 10, 15 and 16 marked with 4 notches on S and 3 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
	Land mountainous Soil stony rock rate. Timber scattering pine oak aspen Mountainous land and dense undergrowth on 8000 lks.
	N 89°56' E on a random line bet secs 10 and 15.
40.00	Set temp 1/4 sec cor.

Subdivision of T. 39 S. R. 8. W. continued

Chains.	
80.20	Intersect N and S. line 10 lks W of cor of secs 10, 11, 14 and 15.
	Thence Prem
	West on a true line bet secs 10 and 15.
	Over mountainous land through dense undergrowth.
	Descending.
25.0	Bottom of ravine drs S. ascend through very dense aspen.
6.0	Leave dense aspen - through dense undergrowth.
23.00	Top of ridge bears S 20° W and N 20° E. 300 ft above cabine
	Descend through dense undergrowth and scattering timber.
38.00	Gulch 100 ft below ridge drains N 50° W. ascend
40.10	Set a sandstone 12 x 9 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which.
	A pine 8 ins diam bears S 21° E. 180 lks dist. marked 1/4 S. B. T.
	A maple 6 ins diam bears N 40° W. 45 lks dist. marked 1/4 S. B. T.
45.00	Top of ridge 250 ft high drs N W. and S. E. descend
62.00	Gulch with leaf in bottom drains N 30° W. leaf leads from Hay canon to Ordwill and Lydia's canons. ascend
80.20	The cor of secs 9, 10, 15, 16.
	Land mountainous
	Soil stony 4th rate.
	Timber aspen oak pine cedar.
	Mountainous land and dense undergrowth on 80.20 chs. Aug. 21.

Subdivisions of T39.S. R8.W continued

Chains	
	August 23: At 8h00m a.m. l.m.t. I set off 37°26' N on the lat. arc: 11°-15' S on the decl. arc: and determined a true meridian with the solar at the cor of secs 9, 10, 15 and 16.
	Thence I run:
	N 0°14' W bet secs 9 and 10
	Over mountainous land through dense undergrowth and scattering timber.
	Descending abruptly.
35.00	Bottom of canon bs N 50° W. ascend
35.10	Trail from Hay canon to Ordwill and Lydia canon: bs N 50° W and S 50° E.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which a pine 12 ins diam bears N 87° E. 198 lks dist. marked 1/4 S.B.T.
	Ascend very abruptly.
47.00	Top of ridge 200 ft high bs N 70° E and S 70° W. descend
64.00	Creek 4 lks wide in bottom of canon bs S.W. ascend
80.00	Set a sandstone 14 x 8 x 7 ins 10 ins in the ground for cor of secs 3, 4, 9 and 10 marked with 5 notches on S and 3 notches on E edges and raised a mound of stone 2 ft base 1½ ft high. No pits impracticable.
	Land mountainous.
	Soil stony 4th rate.
	Timber pine aspen oak and cedar.
	Mountainous land and dense undergrowth on 80.00 Chs.

Subdivisions of T. 39 S. R. 8 W. continued.

Chains.	
	East on a random line bet secs 3 and 10.
40.00	Set temp 1/4 sec cor.
80.26	Intersect N. and S. line at cor of secs 2. 3. 10 and 11.
	Thence Trav
	West on a true line bet secs 3 and 10.
	Over mountainous land through dense undergrowth. descending.
27.00	Bottom of canon valley dis S.W. ascend abruptly.
33.00	Top of ridge brs N.E. and S.W. 300
40.00	ft above canon descend gradually
40.13	Set a sandstone 14 x 6 x 8 in. 10 in in the ground marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable. ascend gradual.
47.00	Top of ridge brs N.E. and S.W. descend abruptly
64.50	Creek 4 lks wide in bottom of canon 500 ft deep dis S.W. ascend abruptly.
80.26	The cor of secs 3. 4. 9 and 10 Land mountainous. Soil stony & shrate. Timber oak, pine, cedar, aspen. Mountainous land and dense undergrowth on 80.26 chs.

	N 0°14' W. on a random line bet secs 3 and 4.
40.00	Set temp 1/4 sec cor.
78.55	Intersect the N. bdy of Tp 24 lks E of cor of secs 3. 4. 33 and 34 which is a sandstone 10 x 6 x 8 ins above ground firmly set and marked and witnessed as described

Subdivisions of 939. B. R. 8 W., continued

by the surveyor General.
Thence Trav. S.
S 0°11' E on a true line bet secs
3 and 4.
Over mountainous land, through
dense undergrowth
Ascending
31.00 Top of ridge 400 ft above cor. brs
E and W. descend gradualy
38.55 Set a sandstone 12 x 12 x 5 ins 8 ins
in the ground for 1/4 sec cor. marked
1/4 on N. face and raised a mound
of stone 2 ft base 1½ ft high W of
cor. pits impracticable.
41.00 Ravine drs N.W. ascend
52.50 Descend abruptly from ridge brs E and W.
62.00 Ravine 250 ft below ridge drs S.E.
ascend
64.00 descend gradualy along E slope
of mountain
78.55 The cor of secs 3 4 9 and 10
Land mountainous
Soil stony 4th rate.
Timber oak aspen pine and cedar.
Mountainous land and dense
undergrowth on 78.55 chs.
August 23

Chains.	August 24: At 8 h. 00 m. a.m. l.m.t. set off 37°23' N on the lat. arc; 10°54' N on the decl. arc and determined a true meridian at the cor of secs 4, 5, 32 and 33 on the S. bdy of T. which I set herebefore. Thence Over N 0°15' W bet secs 32 and 33. Over mountainous land, through dense undergrowth ascending abruptly.
13.00	Top of ridge 400 ft above cor brs S 70° E and N 70° W. descend abruptly.
30.00	Enter heavy yellow pines.
36.00	Cattle trail brs N N and S E.
40.00	Set a sandstone 16×12×4 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which
	A pine 22 ins diam bears S 39½° E 18 lks dist. marked 1/4 S.B.T.
	A pine 12 ins diam bears N 77° W. 43 lks dist. marked 1/4 S.B.T.
40.25	Bottom of canon drs N. W. 400 ft below top of ridge. Ascend abruptly. leave heavy timber
56.50	Top of ridge 250 ft above cor. brs Westerly. Descend abruptly
70.00	Bottom of canon 250 ft below ridge, drs S. W. ascend over ridges and gulches
80.00	Set a sandstone 16×10×4 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 and raised a mound of stone 3 ft base 1½ ft high W of cor. pits impracticable.

Subdivisions of T.39 S. R.8 W. continued.

Com	Land mountainous Soil stony 4th rate. Timber pine oak, cedar. Heavily timbered on 10.25 chs Mountainous land and dense undergrowth on 80.00 chs.
	East on a random line bet secs 28 and 33.
40.00	Set temp 1/4 sec cor.
80.00	Intersect North & S. line at the cor of secs 27, 28, 33 and 34. Thence Down West on a true line bet secs 28 and 33. Over mountainous land through dense undergrowth ascending
12.00	Top of ridge 100 ft high. brs S 10° E descend
23.50	Gulch dry South ascend
30.00	Top of ridge 100 ft high brs North & descend
40.00	Set a sandstone 14 x 12 x 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable. Ascend abruptly.
57.25	Top of mountain ridge 600 ft above cor. brs N.E. and S.W. descend
80.00	The cor of secs 28, 29, 32 and 33. Land mountainous Soil stony 4th rate Timber oak pine and cedar. Mountainous land and dense undergrowth on 80.00 chs.
	August 24: At this cor. I set off.

Subdivisions of T.39 S. R.8 W. continued

Chains.	
	10° 50' N on the declinat: and at 0 hour. 1. min t observed the sun on the meridian, the resulting lat is 37° 24' N.
	N 0° 15' W bet sec 28 and 29. Over mountainous land through dense undergrowth. Ascending abruptly
13.00	Top of ridge 500 ft above cor. Ridge brs S.W. and N. thence along ridge
32.00	Descend along W. side of ridge
40.00	Set a sandstone 12×10×6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which
	Witness 30 ins diam bears N 32½° E 17 lks dist. marked 1/4 S.B.T.
	Witness 24 ins diam bears N 25° W. 41 lks dist. marked 1/4 S.B.T.
	Enter heavy timber
50.50	Enter bottom of canon. brs S.W. Thence over ridges and gulches along foot of mountain.
77.00	Ravine brs S 30° W. over ridges and gulches.
80.00	Set a sandstone 14×8×6 ins 10 ins in the ground for cor of secs 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E. edge from which
	Witness 40 ins diam bears N 45° E. 137 lks dist. marked T.39 S. R.8 W. S 21 B.T.
	Witness 40 ins diam bears S. 48° E. 16 lks dist. marked T.39 S. R.8 W. S 28 B.T.
	Witness 32 ins diam bears S. 16° W. 54 lks dist. marked T.39 S. R.8 W. S 29 B.T.
	Witness 40 ins diam bears N 22° W. 87 lks dist. marked T.39 S. R.8 W. S 20 B.T.

Subdivisions of T. 39 S. R. 8 W. continued

Chains	
	Land mountainous Soil stony 4th rate. Timber pine oak cedar, Heavily timbered on 40.00 chs. Mountainous land and dense undergrowth on 80.00 chs.
	East on a random line bet secs 21 and 28.
40.00	Set temp 1/4 sec. cor.
80.00	Intersect North & line at the cor of secs 21. 22. 27 and 28 Thence S 0 min West on a true line bet secs 21 and 28. Over mountainous land through dense undergrowth. Descending.
4.00	Small gulch bears S 70° E ascend abruptly
15.00	Top of ridge bears N. W. and S. E. 400 ft above gulch descend abruptly
31.00	Gulch 300 ft deep bears S 30° E. ascend abruptly.
37.00	Top of ridge 400 ft above gulch bears N 60° E and S 60° W. descend abruptly
40.00	Set a sandstone 18 x 8 x 4 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which Cedar 14 ins diam bears N 4° E. 47 lks dist marked 1/4 S. B. T. Pine 20 ins diam bears S 81° W 75 lks dist marked 1/4 S. B. T. Continue to descend over ridges and hollows along N side of mountain ridge
75.00	Enter heavy timber
80.00	The cor of secs. 20. 21. 28 and 29. Land mountainous

Soil stony 4th rate.
Timber pine cedar oak
Heavily timbered on 5.00 chs.
Mountainous land and dense
undergrowth on 80.00 chs.
August 24

August 25: At 8h 00m a.m. l.m.t.
I set off 37°25' N on the lat. and:
10°33½' N on the del. arc and determined
a true meridian at the cor. of secs
20, 21, 28, and 29
Thence Orein
N 0°15' W bet secs 20 and 21
Over mountainous land through
scattering timber and dense
undergrowth
ascending.
3.00 Dry wash in bottom of canon
drs S 10° W. ascend
9.00 Top of low hill, descend into
same canon.
15.00 Dry wash drs S 15° E ascend
along E side of canon over ridges and
gulleys.
40.00 Set a sandstone 12 x 12 x 4 ins 8 ins in
the ground for 1/4 sec. cor marked
1/4 on W. face and raised a mound
of stone 2 ft base 1½ ft high W of cor.
pits impracticable.
65.00 Top of ridge 300 ft above sec. cor.
bears E and W. descend
68.00 Ravine 100 ft deep drs. Westerly
ascend
72.00 Top of ridge 100 ft above ravine
descend abruptly
80.00 Bottom of canon.
Set a sandstone 16 x 12 x 6 ins 11 ins in
the ground for cor of secs 16,
17, 20 and 21 marked with 3
notches on S and 4 notches on

Subdivision of T. 39 S. R. 8 W. continued

Chain	Edges and raised a mound of stone 2 ft base 1½ ft high N of corner pits impracticable.
	Land mountainous.
	Soil stony white.
	Timber pine oak cedar.
	Mountainous sand and dune undergrowth on 80.00 chs.
	East on a random line bet secs 11 and 21.
11.00	Set temp sec cor.
3.00	Intersect N and S. line 10 chs S of cor of secs 15, 16, 21 and 22.
	Thence Down
	S 89°56' W on a true line bet secs 11 and 21
	Over mountainous land through dense undergrowth.
	Descending
7.00	Gulch 100 ft below cor descends N. ascend
20.00	Top of ridge brs N.E. and S.W. descend
28.10	Canon gulch 200 ft deep drs South ascend abruptly.
32.00	Cattle trail brs N and S.
39.00	Top of ridge brs N and S. descend
40.07	Set iron stone 18x10x6 ins 12 ins in the ground for W sec cor. marked sec N. pass from which Spruce bears diam bears S 62° E 90 lks dist. marked W B.T.
	No other trees within limits. I erected a mound of stone 3 ft base 1½ ft high N of cor pit.
40.50	Canon gulch drs S 15° E. 100 ft below sec cor. ascend abruptly
41.50	Top of mountain ridge 200 ft above gulch brs N and S. descend

Chain	
	abruptly into head of canon dr Westerly.
80.14	The cor. of secs 16, 17, 20 and 21 600 ft below top of ridge Land mountainous. Soil stony schiste. Timber oak, pine, cedar Mountainous land and dense undergrowth on 80.14 chs.
	August 21: At this cor. Lat. of 10°30' N. on the declinat. and at 0h 00m l.m.t. observed the sun on the meridian the resulting lat. is 37°26' N.
	N 0°15' W. bet. secs 16 and 17. over mountainous land through dense undergrowth. Ascending abruptly.
11.00	Top of ridge 300 ft above gulch bears N 60° W and S 60° E. descend through dense undergrowth and scattering pines
40.00	Set a sandstone 13 x 8 x 4 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N face and raised a mound of stones 2 ft base 1½ ft high N. of cor pits impracticable
52.00	Cattle trail bears N 50° W and S 50° E.
53.70	Bottom of canon dr N 45° W. 500 ft below top of ridge ascend
60.00	Top of ridge 150 ft high bears S 60° W. descend
65.50	Bottom of gulch bears S 60° W. ascend over broken ground
80.00	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for cor of secs 8, 9, 16 and 17 marked with 4 notches

Subdivisions of 139 D.R.8W. continued

Chains.	
	on S. and E. edges. and raised a mound of stone 2 ft base 1½ ft high. W. of cor. pits impracticable. Land mountainous Soil stony & shiate. Timber oak pine cedar Mountainous land and dense undergrowth on 80.00 Chs.
	N 89°56' E on a random line bet secs 9 and 16.
40.00	Set temp 1/4 sec. cor.
80.20	Intersect N and S. line at cor. of secs 9, 10, 15 and 16. Thence Down S 89°56' W on a true line bet secs 9 and 16. Over mountainous land through dense undergrowth and scattering timber. Ascending abruptly.
10.00	Top of ridge 350 ft above cor. bears N and S. descend gradually along N side of high ridge bearing N Westerly.
15.00	Ascend gradually
23.00	Top of ridge bears N 80° W and S 45° E. descend along South side.
38.00	ledge of rocks
40.00	Set a sandstone 14×10×4 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable. Descend abruptly
65.00	Bottom of gulch 600 ft below top of ridge bears S 45° W. ascend
80.20	The cor. of secs 8, 9, 16 and 17. Land mountainous Soil stony & shiate.

Subdivisions of T. 39 S. R. 8 W. continued.

Chains.	Timber pine oak cedar. Mountainous land and dense undergrowth on 80.20 chs. August 25
	August 26: At 8h 00m a.m. l.m.t. I set off 57'36" N on the labor. 10°13' W on the arc and determined a true meridian with the solar at the cor of secs. 8, 9, 16 and 17. Thence I run N 0°15' W. bet secs 8 and 9. Over mountainous land through dense undergrowth ascending abruptly.
15.00	Top of ridge 400 ft above cor bos E & W. ascend abruptly.
35.00	Enter bottom of Hay canon. 400 ft below top of ridge.
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N of pits impracticable.
41.00	Dry wash in bottom of canon dis. S 60° W. enter scattering pines
45.00	Ascend abruptly over foot of high ridge.
57.00	Top of spur slopes westerly descend
69.00	Canon Gulch dis Westerly. ascend abruptly
80.00	Set a sandstone. 16 x 8 x 6 ins 11 ins in the ground for cor of secs 4, 5, 8 and 9. marked with 3 notches on S and 4 notches on E edges. and raised a mound of stone 2 ft base 1½ ft high N of cor pits impracticable. Land mountainous

Subdivisions of 939 A. P.R.M. continued

Chains: Soil stony w/ slate.
Timber oak, pine, cedar.
Mountainous land and 71.00 chs
Dense undergrowth on 81.00 chs

N89°41' E on random line bet
secs 4 and 9
11.00 Set temp 1/4 sec. cor.
80.24 Intersect N and S. line v/ the S.
for of secs 34, 9 and 10
Thence from
S89°41' W on a true line bet
secs 4 and 9.
Over mountainous land through
dense undergrowth ascending
abruptly.
21.00 Top of ridge 300 ft above 200 cor.
bts N and S.
descend abruptly
33.00 Bottom of gulch 600 ft deep bts
South ascend abruptly.
41.12 Set a sandstone 16x8x4 ins 10 ins
in the ground for 1/4 sec cor.
marked 1/4 on N. face and raised
a mound of stones. 2 ft base 1½ ft
high N. of cor pits impracticable.
43.00 Ridge 100 ft above gulch bts N and S
descend
50.00 Gulch bts South ascend.
65.00 Ridge 100 ft above gulch bts
N and S. descend abruptly.
70.00 Gulch bts S. & N. ascends abrupt-
ly
78.00 Ridge 300 ft above gulch bts
N and S. descend
Thence on of secs 4, 5, 8 and 9.
Land mountainous
Lime stone w/ slate
Timber pine, cedar, oak
Mountainous land and dense undergrowth

Chains.	
	N 0°15' W on a random line bet secs 4 and 5
40.00	Set a temp 1/4 sec cor.
78.80	Intersect N. bdy of Tp 49 lks W of the cor of secs 4, 5, 32 and 33 which is a sandstone 18 x 10 x 7 ins above ground firmly set and marked and witnessed as described by the surveyor general.
	Thence I run
	S 0°06' W on a true line bet secs 4 and 5
	Over mountainous land through dense undergrowth
2.00	Ascend abruptly
20.00	Top of ridge bs E and west. Descend abruptly.
29.00	Bottom of canon brs N 45° W. Ascend abruptly through scattering pines.
38.80	Set a sandstone 16 x 8 x 4 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N. face from which a pine 2 ins diam bears S 3° E. 38 lks dist, marked 1/4 B.T.
	A pine 30 ins diam bears S 79° W. 38 lks dist, marked 1/4 B.T.
50.00	Top of ridge 500 ft above canon bears N 80° W and S 80° E descend abruptly. Some rotting timber
63.00	Foot of abrupt descent 500 ft below top of ridge. Then is over ridges and gulches along foot of mountain
78.80	The cor of secs 4, 5, 8 and 9. Land mountainous and stony white. Timber pine oak cedar. Mountainous land and dense undergrowth - on 78.80 chs.
	August 26.

Chain August 27: At 8h 00m a.m. l.m.t.
Set off 37°23' N on the lat. arc
90°2' N on the decl. arc and
determined a true meridian
with the solar at the cor. of
secs 5, 6, 31 and 32 on the S. bdy
of Tp, which I set heretofore.
Thence I run.
N 0°15' W. bet secs 31 and 32.
Over mountainous tan & through
dense undergrowth: ascending.
13.00 Edge of cliffs brs E and W. descend
abruptly through scattering timber
17.50 Enter bottom of canon heavy timber
20.00 Small spring bears West 5 ch dist.
Across bottom through dense
willow
33.00 Main cattle trail brs N. E and
S. W.
37.00 Foot of cliff ascend very abruptly.
39.65 Top of cliff 200 ft high bears
N 30° E and S 30° W.
40.00 Set a sandstone 16 x 9 x 6 ins in
mound of stone for 1/4 Sec. cor
marked 1/4 on W face from which
Ash 30 ins diam bears N 22° E. 34 lks dist.
marked 1/4 S. B. T.
Cedar 30 ins diam bears N 49° W. 47 lks dist.
marked 1/4 S. B. T.
Continue to ascend abruptly.
48.00 Top of ridge or hill 150 ft above
1/4 sec cor. brs East and W.
descend gradually
60.00 Enter scattering timber
71.50 Bottom of canon 100 ft below
ridge brs S. 30° E ascend
80.00 Cor falls on large sandrock
16 x 10 x 5 ins firmly in place.
Cut a cross x at cor point and
marked one notch on S edge
and 5 notches on E edge and

Subdivision of 439 T. R. 8 W. continued

Chain	raised a mound of stone 3 ft base 2 ft high W of cor. pits impracticable.
	Land mountainous and rolling.
	Soil stony and sandy loam 1st and 4th rate.
	Timber pine oak cedar
	Mountainous land on 59.00 ch.
	Dense undergrowth on 80.00 chs
	East on a random line between secs 29 and 32
40.00	Set temp 14 sec cor.
80.00	Intersect N and S line at the cor of secs 28, 29 32 and 33.
	Thence I run W
	West on a true line between secs 29 and 32.
	Over mountainous land through dense undergrowth and scattering timber.
.75	Bottom of ravine dry southerly ascend abruptly.
15.00	Top of ridge 300 ft above sec cor. bears N.E. and S.W. descend along N side of ridge over ridges and gulches
40.00	Set a sandstone 14 x 12 x 4 in 18 in in the ground for 14 sec cor. marked 14 on N. face from which
	A pine 24 in diam bears S 84° E. 149 lks dist. marked 14 S. B.T.
	A pine 16 in diam bears N 28° W 82 lks dist. marked 14 S. B.T.
	Enter scattering timber
45.50	Bottom of canon dry S 25° W. ascend gradually
50.00	Ridge 100 ft high bears N and S.

Subdivision of T39 S. R8 W. continued

Chain.	
	descend
52.50	Gulch dry S 45° E into main gulch
71.00	Top of ridge 300 ft above canon
	bears N and S. ascend abruptly
80.00	The cor of sec 29, 30, 31 and 32
	Land mountainous
	Soil stony 4th rate
	Timber-pine oak aspen and cedar
	Mountainous land and dense
	undergrowth on 80.00 chs.

August 27. At this cor I set off 9°48' N on the decl and at 0.00 m l. m. t observed the sun on the meridian, the mean time lat is 37°24' N.

	Ness on a random line bet
	secs 30 and 31
40.00	Set temp 1/4 sec cor.
79.50	Deflect N bdy of Tp 10 lks S.
	of the cor of secs 25, 30, 31 and 36
	Thence S run
	S 89°56' E on a true line bet secs
	30 and 31
	Over mountainous land through
	dense undergrowth
	Descending a
5.00	Gulch 100 ft below cor dry N 30° W.
	ascend abruptly.
17.00	Top of broken plateau 400 ft above
	gulch, over ridges and gulches
	ascending
37.50	Ledge of rock 75 ft high just S. of
	line descend along N. side of ledge
38.50	Head of ravine at foot of cliffs
	dry N W. ascend
39.50	Set a sandstone 16 x 10 x 5 in. 11 in.
	in the ground for 1/4 sec. cor.

Subdivisions of 439, R. R. 8 W. continued

Chains	
	marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
	Descend
45.00	Enter heavy timber
75.00	Gulch 300 ft below 1/4 sec. cor. drs S 30° E. leave heavy timber and ascend abruptly
79.50	The cor of secs. 29, 30, 31 and 32. A spring bears S 45° W 10 chs dist from this cor.
	Land mountainous
	Soil stony 4th rate.
	Timber pine oak cedar
	Heavily timbered on 30.00 chs
	Mountainous land and dense undergrowth on 79.50 chs.
	N 0°15' W bet secs 29 and 30
	Over mountainous land through dense undergrowth and scattering timber ascending along W foot of mountain over ridges and gulches.
40.00	Set a sandstone 16x10x4 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which
	A pine 12 ins diam bears N 79° E. 26 lks dist. marked 1/4 B.T.
	A cedar 9 ins diam bears N 26° W. 21 lks dist. marked 1/4 B.T.
60.00	Top of sharp ridge bears N. E and S. W. descend abruptly
72.00	Bottom of gulch 300 ft deep drs N 70° W. ascend abruptly
77.00	Top of sharp ridge 200 ft high brs E and W. descend
80.00	Set a sandstone 12x8x6 ins 8 ins in the ground for cor of secs

Subdivisions of T39 S. R8 W. continued.

Chains	19, 20, 29 and 30 marked with 2 notches on S and 5 notches on E edge from which A pine 12 in diam. bears S 16° E 9 lks dist marked T39 S. R8 W S.29 B.T. A pine 24 in diam. bears N 27° W 114 lks dist marked T39 S. R8 W. S.19 B.T. no other trees within limits I raise a mound of stone 2 ft base 1½ ft high W. of cor. pits impracticable. Land mountainous Soil stony 4th rate. Timber pine cedar oak Mountainous land and dense undergrowth on 80, 90 chs.
	East on a random line bet secs 20 and 29
40.00	Set temp 1/4 sec cor.
79.90	Intersect North S. line 9 lks S. of the cor of secs 20, 21, 28 and 29 Thence I run S 89° 56' W on a true line bet secs 20 and 29 Open mountainous land through dense undergrowth and scattering timber
1.00	Ravine in bottom of canon dry S. to N. ascend abruptly
9.00	Top of ridge 300 ft above ravine bears North S. descend abruptly.
36.00	Head of canon 300 ft below ridge dry E. ascend abruptly.
39.95	Set a sandstone 16 x 7 x 5 in 11 in in the ground for 1/4 sec cor. marked 1/4 on N. face from which A cedar 20 in diam bears N 81½° E. 17 lks dist. marked 1/4 S.B.T. no other trees within limits.

Subdivisions of 4.39 R. R. 8 W. continued.

Chains	
	I raise a mound of stones 2 ft base 1½ ft high N. of cor pits impracticable
51.00	Top of sharp ridge 200 ft above head of canon. brs N. and S. W. ascend abruptly out head of canon.
60.00	Bottom of canon 200 ft deep drs N. ascend abruptly
65.00	Top of sharp ridge brs N and S. ascend abruptly
79.90	The cor of sec 19.20.29 and 30 Land mountainous Soil stony 4th rate. Timber pine cedar oak Mountainous land and dense undergrowth - on 79.90 chs. August 27

August 28: At 8h 00m a.m. l.m.t. I set off 37°25' N on the 1st chain 9°30' N on the 2d chain and determined a true meridian with the solar at the cor of sec 19.20 29 and 30.

Thence I run N 89°56' W on a random line bet secs 19 and 30

40.00	Set temp ¼ sec cor.
79.60	Intersect N bdy of Tp 4 lks Dep the cor of secs 19.24.25 and 30 which I establish hereafor

Thence I run S 89°54' E on a true line bet secs 19 and 30

Over ridges and gulches along N side of high mountain ridge thickly dense undergrowth and scattering timber ascending.

39.60	Set a sandstone 14 x 8 x 6 in 10 in in the ground for ¼ sec cor

Chains	
	marked 1/4 on N face and raised a mound of stones 2 ft base 1½ ft high N & E pits impracticable
	descend gradually
60.00	Gulch drs N.W. descend abruptly over cliffs
68.00	Top of cliff 200 ft above gulch over broken land descending along N side of ridge
79.60	The cor of secs 19, 20, 29 and 30
	Land mountainous
	Soil stony 4th rate.
	Timber oak, pine, cedar
	Mountainous land and dense undergrowth on 79.60 chs.

	N 0°15' W bet secs 19 and 20
	Over mountainous land though dense undergrowth
	ascending abruptly.
15.00	Top of sharp ridge 300 ft above cor bears E and W. descend into head of canon
30.00	Enter scattering pines
40.00	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	Pine 16 ins diam bears S 4° E. 277 lks dist. marked 1/4 S.B.T.
	Pine 36 ins diam bears S. 31° W. 74 lks dist. marked 1/4 S.B.T.
	Cor stands in forks of two ravines descend gradually along E slope of mountain on N side of canon
65.00	descend abruptly
74.00	Bottom of canon 500 ft below ridge drs N 75° W. ascend bare limb
75.00	The sec. cor. falls on very steep ground above cliffs. Therefore

Subdivisions of T39 S. R8 W. continued

Chains	
	at this point I set a sandstone 16x10x6 ins 11 ins in the ground for witness cor to the cor of secs 17, 18, 19 and 20 marked W.C. on N.E. face with 3 notches on S and 5 notches on E edges from which A pine 30 ins diam bears S 8½° E 190 lks dist. marked W.C. T39 S. R8 W - S. 20 B.T.
	A pine 24 ins diam bears S. 36° W. 187 lks dist. marked W.C. T39 S. R8 W - S. 19 B.T.
	no other trees within limits
	I raised a mound of stones 2 ft base 1½ ft high W. of cor. pits impracticable
76.00	Foot of cliffs 100 ft high. ascend very abruptly
80.00	At a sandstone 12x6x7 ins 8 ins in the ground for cor of secs 17, 18, 19 and 20 marked with 3 notches on S and 5 notches on E edges. and raised a mound of stones 2 ft base 1½ ft high W of cor. Cor stands on very steep ground about 45°. pits impracticable. Land mountainous. soil stony 4th rate. Timber oak pine and cedar. Mountainous land and dense undergrowth m 80.00 lks.
	N 89° 56' E on a random line bet secs 17 and 20
40.00	Set temp 14 x 20 cor.
80.00	Intersect N. and S. line 10 lks W of cor of secs 16, 17, 20 and 21
	Thence Down ~~West~~
	West on a true line bet secs 17 and 20
	Over mountainous land through dense undergrowth
	descending along S side of ravine
15.00	Bottom of ravine brs S 70° W
18.00	Re cross ravine brs N 60° W.
	ascend abruptly
23.00	Top of ridge 100 ft above ravine

Subdivisions of 939.5 R.8.W. continued

Chain: bears N. and S. descend abruptly.
35.00 Top of descent
37.50 Drywash in bottom of canon
ars S. 80° W. o
40.00 Set a sandstone 12 x 8 x 8 ins 8 ins
in the ground for 1/4 sec cor. marked
1/4 on N. face and raised a mound
of stone 2 ft face 1½ ft high
N. of cor. pits unprobable
Ascend gradually along S side
of mountain ridge over small
ridges and gulches bearing
N. and S.
80.00 The cor of secs 17, 18, 19, and 20
Land mountainous
Soil stony 4th rate.
Timber pine oak cedar
Mountainous land and dense
undergrowth on 8 sides.

August 28: At this cor. I set off
9°27' N on the dist arc: and at 8h
00m l.m.t observed the sun
on the meridian the resulting
lat is 37°26' N.

N 89°54' W on a random line bet
secs 18 and 19
40.00 Set temp 1/4 sec cor
70.48 Intersect W. bdy of Tp 15 lks N of
the cor of secs 13, 18, 19, and 24 at hinge
Then at 1 mi
East on a true line bet secs
18 and 19
Over mountainous land
through dense undergrowth
Ascending gradually up bottom
of canon.
2.00 Ascend abruptly and enter timber

Chains	
39.48	Set a sandstone 12 x 10 x 5 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on N face from which Pine 24 ins diam bears S 85° E 62 lks dist. marked 1/4 S. B. T.
	Pine 16 ins diam bears N 6° W. 37 lks dist. marked 1/4 S. B. T.
	Cliff 100 ft high 30 lks S of cor.
	Cor stands about 200 ft above sec cor. in bottom of canon.
	ascend abruptly.
48.00	Spring of fresh water on line at foot of descent in bottom of canon draining North
	Ascend gradually along side of canon draining Westerly
60.00	Leave timber
68.00	crossing Dry wash in bottom of canon drains N 80° W.
	Ascend gradually along N side of canon.
70.80	Set a sandstone 12 x 9 x 9 ins 8 ins in the ground for witness cor to cor of secs 17, 18, 19 and 20 marked W. C on NE face with 3 notches on S and 2 notches on E edges and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
72.00	Foot of cliff 100 ft high ascend abruptly. Edge of cliff bears N 60° W and S 60° E.
73.00	Top of cliff. ascend abruptly
79.48	The cor of secs 17, 18, 19 and 20
	Land mountainous and rolling
	Soil stony and sandy loam. Stand scrub
	Timber pine oak cedar
	Dense undergrowth on 39.48 chs.

Subdivisions of T39 S. R8 W continued

Chain	N 0°15' W bet sec 17 and 18
	Over mountainous land
	through dense underbrush
	and timber.
	Ascend abruptly.
5.00	Top of sharp ridge 20 ft above
	sec. cor. bear S 45° W. ascend
10.00	Bottom of hollow dis S 45° W
	ascend abruptly
26.00	Top of ridge 400 ft above sec cor.
	bears S 70° W. descend abruptly
39.00	Ravine 300 ft below ridge dis N.
	ascend
40.00	Set a sandstone 12 x 7 x 6 ins 8 ins in
	the ground for 1/4 sec cor. marked
	1/4 on W face from which
	Ash 20 in diam bears N 6° E 50 lks dist
	marked 1/4 S.B.T.
	Ash 20 in diam bears N 28° E 105 lks dist
	marked 1/4 S.B.T.
	Raised a mound of stone N of cor.
42.00	Small ridge trd E and W.
	descend abruptly
48.00	R. Jolly's house and stables bears
	W. 14 chs dist.
54.00	Foot of descend. enter bottom of
	canon dis West. enter willows.
55.00	Spring of fresh water in bottom
	of canon ascend
57.00	small ridge at fork of canons.
	trs E and W. descend
58.30	Enter Way canon. Spring of fresh
	water on limi. Cliffs 50 lks E.
60.00	Brush fence between R Jolly's
	and Owens claims
	fence trs E and W.
61.50	Spring branch 2 lks wide drs
	S 40° W
64.50	Wagon road from Owens ranch
	down Way canon bears N.E. and S.W.
	Cross willows and cross swamp

Subdivision of Y.39.S. R.8.W. continued.

Chains	
	meadow land
7.00	Leave meadow. Trail and wagon trks S 50° W and N 40° E.
	ascend abruptly through dense oak
80.00	Set a sandstone 14 x 8 x 5 ins 10 ins in the ground for cor of secs 7, 8, 17 and 18, marked with 4 notches on S and 5 notches on E edges. and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
	Land mountainous and rolling
	Soil loam, and stony
	1st and 4th rate.
	Timber oak pine cedar and willow.
	Mountainous land on 19.00 ch
	Dense undergrowth on 69.50 chs.
	Swampy meadow 10.50 chs.
	East on a random line bet secs 8 and 17.
40.00	Set temp ¼ sec cor.
80.08	Intersect N and S line 30 lks S of cor of secs 8, 9, 16 and 17.
	Thence S 89° 47' W. on a true line bet secs 8 and 17.
	Over mountainous land through dense undergrowth
	descend abruptly
5.00	Gulch 100 ft below cor drs S.
	ascend abruptly.
38.00	Top of sharp ridge 400 ft high above gulch bears N and S descends abruptly
40.04	Set a sandstone 12 x 5 x 8 ins 8 ins in the ground for ¼ sec cor. marked ¼ on N. face and raised a mound of stone 2 ft base 1½ ft high N of cor pits impracticable.

Subdivisions of T 39 S. R. 8 W. continued

Chains	
	continue to ascend abruptly
51.00	Head of ravine 200 ft below ridge
	as South as end abruptly.
62.50	Top of ridge 200 ft above ravine
	bears N. E and S 30° W. descend abruptly
71.50	Enter bottom of Hay canon and
	dense willow undergrowth
77.80	Tree bears N and S.
78.00	Wagon road and trail from Owens
	ranch down Hay canon brs
	N 30° E and S 30° W.
	ascend through dense oak brush
80.08	The cor of secs 7, 8, 17 and 18.
	Land mountainous and level
	Soil loam and stony 1st and
	4th rate.
	Timber oak pine cedar and willow
	Mountainous land on 73.50 chs.
	Dense undergrowth on 80.08 chs.
	August 28

August 30: At 7 h 00 m a.m. l.m.t.
I set off 37° 36' N on the lat arc.
8° 49' N on the decl arc and
determined a true 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
40.00 Set temp 14 x 20 cor.
79.42 Intersect W. bdy of Tp. at cor
of secs 7, 12, 13 and 18
Thence I run
East on a true line bet secs
7 and 18
Over mountainous land through
dense undergrowth and scattering
timber
Ascending abruptly

Subdivisions of T 39 S. R. 8 W. - continued

Chains	
27.00	Top of ridge bears N.E. and S.W. 200 ft above cor. dense timber descend abruptly.
36.00	Gulch 200 ft deep dis South - ascend abruptly.
39.42	Set a sandstone 12 x 12 x 6 ins 8 ins in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stone 2 ft base 1½ ft high N. of cor. pits impracticable.
42.00	Top of ridge bears N and S. descend abruptly.
53.00	Gulch dis S. 300 ft below ridge ascend abruptly.
65.00	Top of ridge 300 ft above gulch bears N and S. descend abruptly.
79.42	The cor of secs 7, 8, 17 and 18 Land mountainous Soil stony 4th rate Timber pine oak cedar Mountainous land and dense undergrowth on 79.42 Chs
	N. 0° 15' W bet secs 7 and 8 Over mountainous land through dense undergrowth descending
10.00	Enter scattering pine and ascend
18.00	Owens house and stables bear E 24.00 Chs dist.
20.00	Leave scattering timber Ascend along E side of ridge
36.00	cross over ridge bears S 10° W and N 10° E.
40.00	Set a sandstone 12 x 8 x 6 ins 8 ins in the ground for 1/16 sec cor marked 1/4 on W. face from which

Subdivisions of T.39 S. R.8 W. continued

Chains	
	Pine 9 in diam bears S 23° E 27 lks dist. marked 14 S.B.T.
	Cedar 12 in diam bears N 22° W 20 lk dist. marked 14 S.B.T. ?
	Continue to ascend along W side of ridge
76.50	Top of mountain ridge 200 ft above sec cor. bears E and W. A high peak bears N 500 lks dist. descend abruptly
80.00	Set a sandstone 12 x 7 x 6 in 8 in in the ground for cor of secs 5, 6, 7 and 8 marked with 5 notches on S and E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. Land mountainous. Soil stony 4th rate. Timber pine oak cedar Mountainous land and dense undergrowth on 80.00 chs.
	N 89° 47' E on a random line bet secs 5 and 8
40.00	Set temp 1/4 sec cor.
80.26	Intersect N and S line 1 mile W of cor of sec 4, 5, 8 and 9. Thence Drew S 89° 53' W on a true line bet secs 5 and 8. Over mountainous land through dense undergrowth descending abruptly.
4.00	Gulch 150 ft below cor. drs S 10° E ascend abruptly.
17.00	Top of ridge brs N and S. 300 ft above gulch descend abruptly
30.00	Gulch 50 ft deep drs S. ascend
40.13	Set a sandstone 14 x 10 x 6 in 8 in in the ground for 1/4 sec cor.

Subdivisions of 939 B.P.S.M. continued

Chains	
	marked 1/4 on N face from which
	A pine 16 in diam bears S37°E 18 lks dist.
	marked 1/4 S.B.T.
	A pine 16 in diam bears N36°W. 24 lks dist.
	marked 1/4 S.B.T.
53.00	Ridge 301 ft above gulch brs N & S.
	descends abruptly
60.70	Head of gulch 150 ft deep, drs
	N. N.
61.30	Trail from Owens ranch
	to Scott Cultins ranch. brs
	N.W. and S.E. ascend gradually
65.00	Descends gradually
70.00	Valley drs N. ascend abruptly
80.26	The cor of secs 1. 6. 7 and 8.
	Land mountainous
	Soil stony 4th rate
	Timber pine oak cedar.
	Mountainous land and dense
	undergrowth on 80.26 Chs
	August 30: At this cor I set
	off 8°43' N on the deed arc and
	at 0 h. 00 m. 0 s. m t observed the
	sun on the meridian the
	resulting lat is 37°27' N.
	Wish on a random line bet
	secs 6 and 7.
40.00	Set temp 1/4 sec cor.
79.30	Intersect N. bdy of Tp at cor
	of secs 1. 6. 7 and 12 which I set
	therefore thence I run
	East on a true line bet
	secs 6 and 7.
	Over mountainous land
	through dense undergrowth
	and scattering timber
	descending.

Subdivisions of T39 S. R8 W. continued

Chains.	
45.0	Gulch 100 ft below cor. dry S. ascend
60.0	Ridge brs N40°W and S40°E descend
190.0	Bottom of canon 300 ft below cor. cross North Fork of the Virginian 14 lks wide
195.0	Wagon road connecting ranches bears N20°E and S20°W. ascend abruptly.
393.0	Set a sandstone 12×7×7 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which a pine 16 ins diam bears N15½°W 33 lks dist. marked 1/4 S. B. T. no other trees within limits I raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable.
740.0	Top of ridge 600 ft above North fork of the Virginian brs N.W. and S.E. descend abruptly
793.0	The cor of secs 5, 6, 7 and 8. Land mountainous Soil stony 4th rate Timber pine oak cedar Mountainous land and dense undergrowth on 79.30 chs.
	N00°15'W on a random line bet secs 5 and 6.
40.00	Set temp 1/4 sec cor.
78.74	Intersect N bdy of Tp 358 lks N of cor of secs 5, 6, 31 and 32 which is a sandstone 14×10×5 ins above ground firmly set marked and witnessed as described by the surveyor general. Set temp closing cor. three chains East from stand cor to secs 31 and 32 T38S R8W on subdivision line.

at 39.00 intersect 1/4 sec cor
At 77.12 intersect the cor of secs 4, 5
32 and 33.
Thence from the cor of secs 31
and 32 I run West, at 40.50 intersect
1/4 sec cor at 82.48 intersect the cor
of Ts 38 and 39 S Rs 8 and 9 W.
I return and set temp closing
cor as permanent closing cor
as follows.
At a point 3.58 chs west of the
old cor of secs 5, 6, 31 and 32 I
set a sandstone 18 X 12 X 6 ins 12 ins
in the ground for closing cor to
secs 5 and 6 marked C C
on S face with 1 groove on W and
5 grooves on E faces and raised
a mound of stone 2 ft base 1½ ft
high to S of cor. Pits impracticable
I destroy all marks on old cor to secs
5, 6 31, and 32 pertaining to secs 5 & 6.
South 0°15' E a true line bet secs 5 & 6
Ascending abruptly through dense undergrowth.

4.70 Top of bench descend gradually.
26.70 Descend abruptly.
29.20 Foot of slope enter bottom drs
south westerly. Wagon road from
Cutters to hay meadows brs N.E. and S.W.
34.70 Across bottom ascend abruptly.
38.74 Set a sand stone 12 X 10 X 8 ins 8 ins
in the ground for 1/4 sec cor
marked 1/4 on W face from which
A pine 48 ins diam bears N 10° 30' W 120 lks dist.
Marked 1/4 S. B. T.
A pine 35 ins diam brs S 58° 30' W 190 lks dist
Marked 1/4 S. B. T.
45.00 Top of ridge bears N. W. & S. E.
Descend abruptly.
54.00 bottom of valley drs N. W.
Ascend abruptly.

Subdivisions of T 39 S R 8 W concluded.

78.74	The cor of secs 5 6, 7 and 8 Land mountainous and rolling Soil sandy loam and stony 1st and 4th rate. Timber scattering pines and cedar Dense under growth on 78.74 chs Mountainous land on 52.20 chs. August 30th 1897.

General description.

This township is very mountainous and broken. It contains a small amount of very rich land suitable for cultivation and sufficient water for irrigation. The township is covered with abundant grass and forage and is extensively used for grazing. There is a scattering growth of pine oak aspen and cedar and a dense growth of bitter brush service brush and mountain mahogany.

The North Fork of the Virgin River flows across the N.W. corner. The township is supplied with several springs of pure water.

There is one settler each in secs. 6, 8, 18, and 34.

I did not find Amasa Green applicant for survey.

There are no indications of mineral.

Alfred B. Lewis
U. S. Dep. Surv.

Township 36 S. Ranges 4, 4½, 5 and 7 W. included in my contract 211 were not surveyed for the reason that the same was impracticable and did not contain any settlers or agricultural land.

Alfred B Lewis
U. S. Dep Sur.

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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 Alfred B Lewis, 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:

James E. Beatty, *Chainman.*
Ernest M. Pratt, *Chainman.*
Samuel C Lewis, *Moundman.*
, *Moundman.*
Frank L Goodwin, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfred B Lewis, United States Deputy Surveyor, in surveying all those parts or portions of the

of the base and 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 Utah

James E. Beatty, *Chainman.*
Ernest M. Pratt, *Chainman.*
Samuel C Lewis, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Frank L. Goodwin, *Flagman.*

Subscribed and sworn to before me this 31st day of August, 1897

SEAL

Alfred B Lewis
U. S. Dep Sur

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Subdivision lines of Tp.42 S.R.6 W.; Tp.36 S.R.3 W., Tp.36 S.R.2 W., Tp.37 S.R.2 W., Tp.38 S.R.2 W., Tp.37 S.R.5 W., Tp.36 S.R.6 W., Tp.37 S.R.7 W., Tp.39 S.R.8 W. Salt Lake Base and Meridian, Utah. 651A

A-246

Subdivision lines of Tp.42 S.R.6 W.; Tp.36 S.R.3 W., Tp.36 S.R.2 W., Tp.37 S.R.2 W., Tp.38 S.R.2 W., Tp.37 S.R.5 W., Tp.36 S.R.6 W., Tp.37 S.R.7 W., Tp.39 S.R.8 W. Salt Lake Base and Meridian, Utah. (651B)

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S., W. and N. Bdys. and Subdivisions Tp. 42 S. R. 6 W.; S. and E. Bdys. and Subdivisions Tp. 36 S. R. 3 W.; S. Bdy. and Subdivisions T. 36 S. R. 2 W.; W. E. and S. Bdys. and Subdivisions Tp. 37 S. R. 2 W.; W. E. and S. Bdys. and Subdivisions Tp. 38 S. R. 2 W.; Subdivisions T. 37 S. R. 5 W.; Subdivisions Tp. 36 S. R. 6 W.; Subdivisions Tp. 37 S. R. 7 W.; S. and W. Bdys. and Subdivisions Tp. 39 S. R. 8 W. and the Resurvey of the Panguitxh and Kanab Guide Meridian Tp. 42 S. between Rs. 5 and 6 W. of the Salt Lake Base and Meridian.

651C

Final Oath of United States Deputy Surveyor.

I, Alfred B. Lewis, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from George W. Snow, United States Surveyor General for the State of Utah, bearing date of the 7th day of October, 1896, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

.....

.....

.....

..... of the ..... base and ..... 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 Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfred B. Lewis.
United States Deputy Surveyor.

Subscribed by said Alfred B. Lewis, and sworn to before me this 26th day of January, 1898

Jacob B. Blair
U.S. Surveyor General for Utah

SEAL

APPROVAL.

Office of the United States Surveyor General,

Salt Lake City, Utah, June 30th, 1898

The foregoing field notes of the survey of the subdivisions of Township 1 S. 9 South Range 8 West of the Salt Lake Base & Meridian Utah

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executed by Alfred B. Lewis under his contract No. 211, dated October 7th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Jacob B. Blair
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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