Volume

#

R0243

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BOOK A-243

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Township 15 N 243, *Range* 8 E.

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *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 .....

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

....., *Chainma*

....., *Chainma*

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

SEAL

.....

.....

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

....., *Moundman*

....., *Moundman*

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

....., *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

.....

.....

BOOK A-243

INDEX DIAGRAM.

Township 13 N, *Range* 4 E.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
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31	32	33	34	35	36
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6—161

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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139 7 152 151	8	9	10	11	12
138 18 150 149	17 148	16	15	14	13
137 19 148 147	20 146	21	22	23	24
136 30 145 145	29 144	28	27	26	25
135 31 143	32	33	34	35	36

Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... *Moundman*

..... *Moundman*

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

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	~~222~~		~~222~~		~~212~~		~~203~~		~~197~~		~~188~~
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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
.....

....., *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 14 N, *Range* 2 E.

6 262 ~~261~~	5 263 ~~262~~	4	3	2	1
7 259 ~~258~~	8 ~~259~~	9	10	11	12
18 257 ~~256~~	17 ~~256~~	16	15	14	13
19 255 ~~254~~	20 ~~254~~	21	22	23	24
30 253 ~~252~~	29 ~~252~~	28	27	26	25
31 251 ~~240~~	32 ~~240~~	33	34	35	36

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6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level 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 13 N, *Range* 2 E.

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7 289 ~~290~~	8	9	10	11	12
18 291 ~~292~~	17	16	15	14	13
19	20	21	22	23	24
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275 31	32	33	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 th
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
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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 establishmen
of corners, according to the instructions given us, to the best of our skill and ability, in the survey o
.....

..... , *Moundman*

..... , *Moundman*

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

SEAL

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

..... , *Axman*

..... , *Axman*

Subscribed and sworn to before me this .....
day of ....., 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 12 N, *Range* 2 E.

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7 304 ~~303~~	8	9	10	11	12
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19	20	21	22	23	24
30	29	28	27	26	25
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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, ...and .....
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.....

.....*, 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 13 N, *Range* 2 W.

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31	32	33	34	35	36

Meanders Page ✓

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainma*

..... *Chainma*

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

SEAL

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

..... *Moundm*

..... *Moundm*

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
.....

..... *Axme*

..... *Axme*

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

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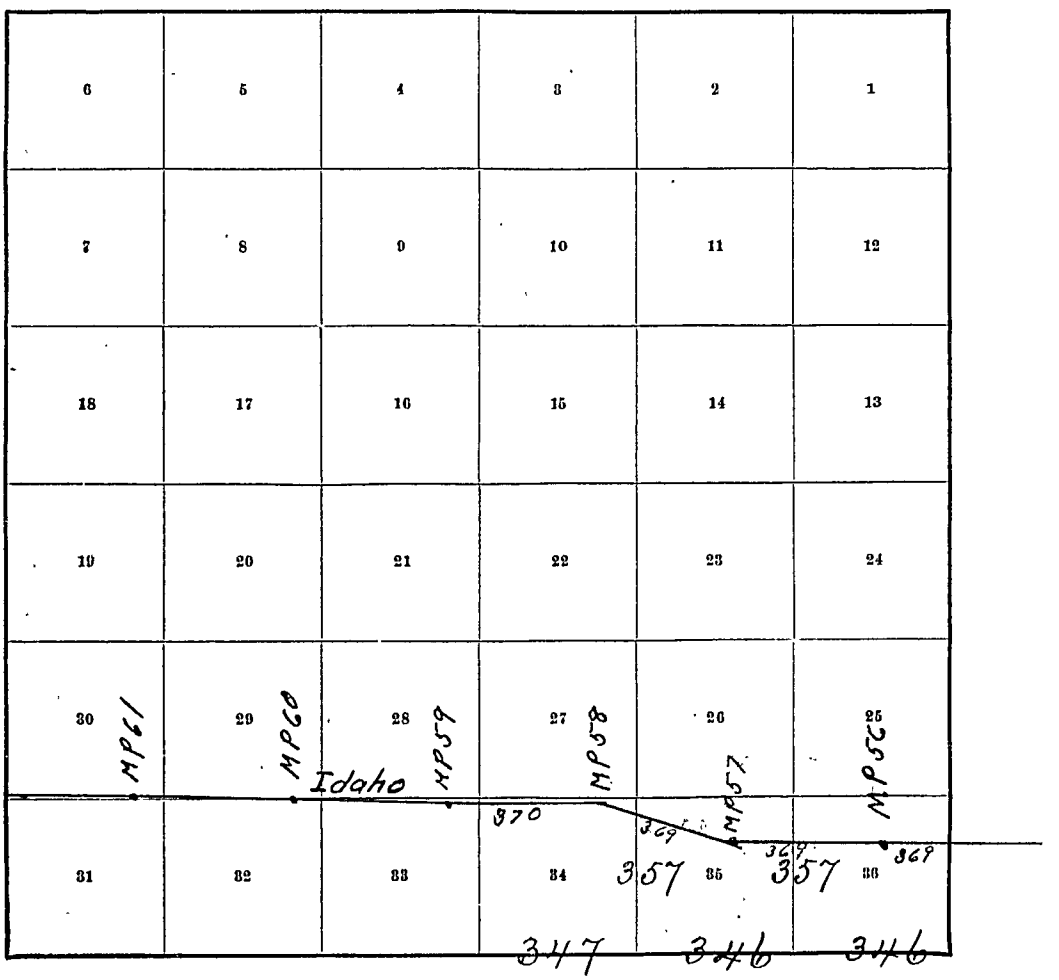
INDEX DIAGRAM.

Township 15 N, *Range* 3 W



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6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Cha*

....., *Chainm*

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 establish of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

....., *Moundm*

....., *Moundm*

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

.....

....., *Axm*

....., *Axm*

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 t survey of .....

....., *Flagm*

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

.....

SEAL

.....

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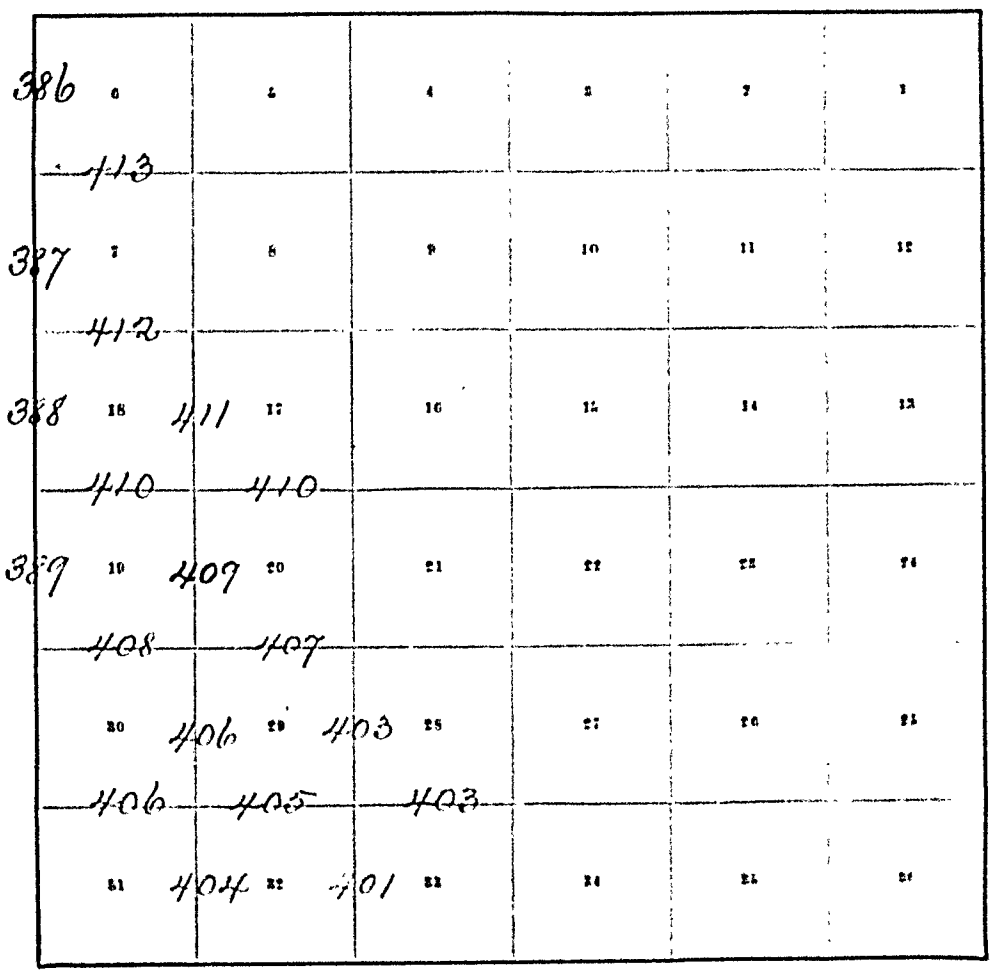
INDEX DIAGRAM.

Township 14 N , *Range* 2 W.



386	6	5	4	3	2	1
413						
387	7	8	9	10	11	12
412						
388	18 411	17	16	15	14	13
410	410					
389	19 409	20	21	22	23	24
408	407					
	30 406	29 403	28	27	26	25
406	405	403				
	31 404	32 401	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

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INDEX DIAGRAM.

Township 14 N, *Range* 3 W.

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7	8	9	10 441 ~~440~~	11 434 ~~439~~	12 ~~433~~
18	17	16	15 439 ~~437~~	14 432 ~~437~~	13 ~~432~~
19	20	21	22	23 431 ~~430~~	24 ~~429~~
30	29	28	27	26 428 ~~427~~	25 ~~426~~
31	32	33	34	35 425	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
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; th
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
.....

..... *Chainma*

..... *Chainma*

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

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

..... *Axman*

..... *Axman*

Subscribed and sworn to before me this .....
day of ....., 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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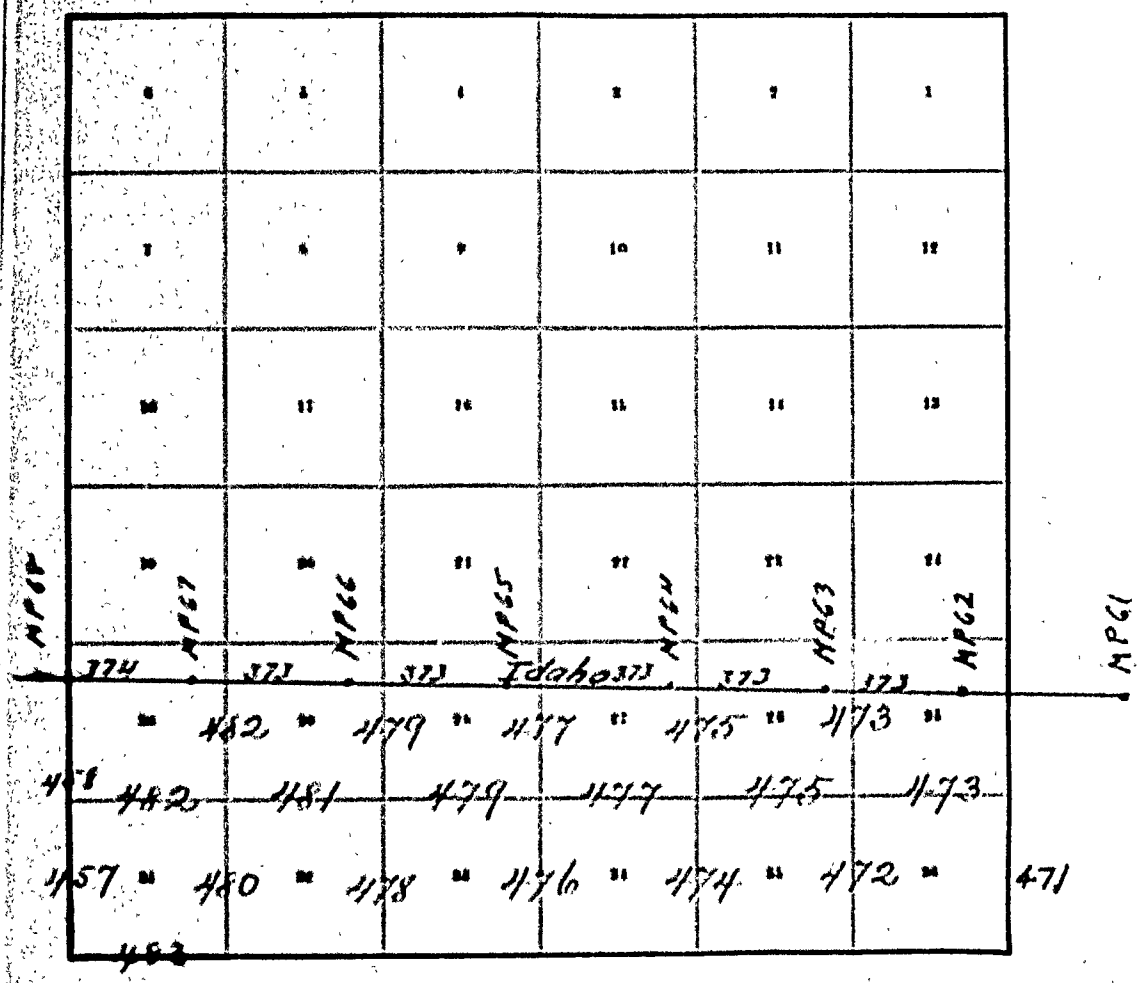
INDEX DIAGRAM.

Township 15 N, *Range* 4 W.



Meanders Page ✓

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WE, ... and .....
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we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
.....

....., *Chainmen*

....., *Chainmen*

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
.....

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

....., *Axman*

....., *Axman*

Subscribed and sworn to before me this .....
day of ....., 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 15 N, *Range* 5 W.

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18	17	16	15	14	13
19 MP73	20 MP72	21 MP71	22 MP70	23 MP69	24 MP68
374	374	Idaho 374	374	374	374 374
496 30	517 29	515 28	513 27	511 26	509 25
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495 31	515 32	514 33	512 34	510 35	508 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 chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; t we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su..ey

.....

....., *Chain..*

....., *Chain..*

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 establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

....., *Moundm..*

....., *Moundm..*

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

.....

....., *Axma..*

....., *Axma..*

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

SEAL

.....

.....

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

....., *Flagma..*

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

SEAL

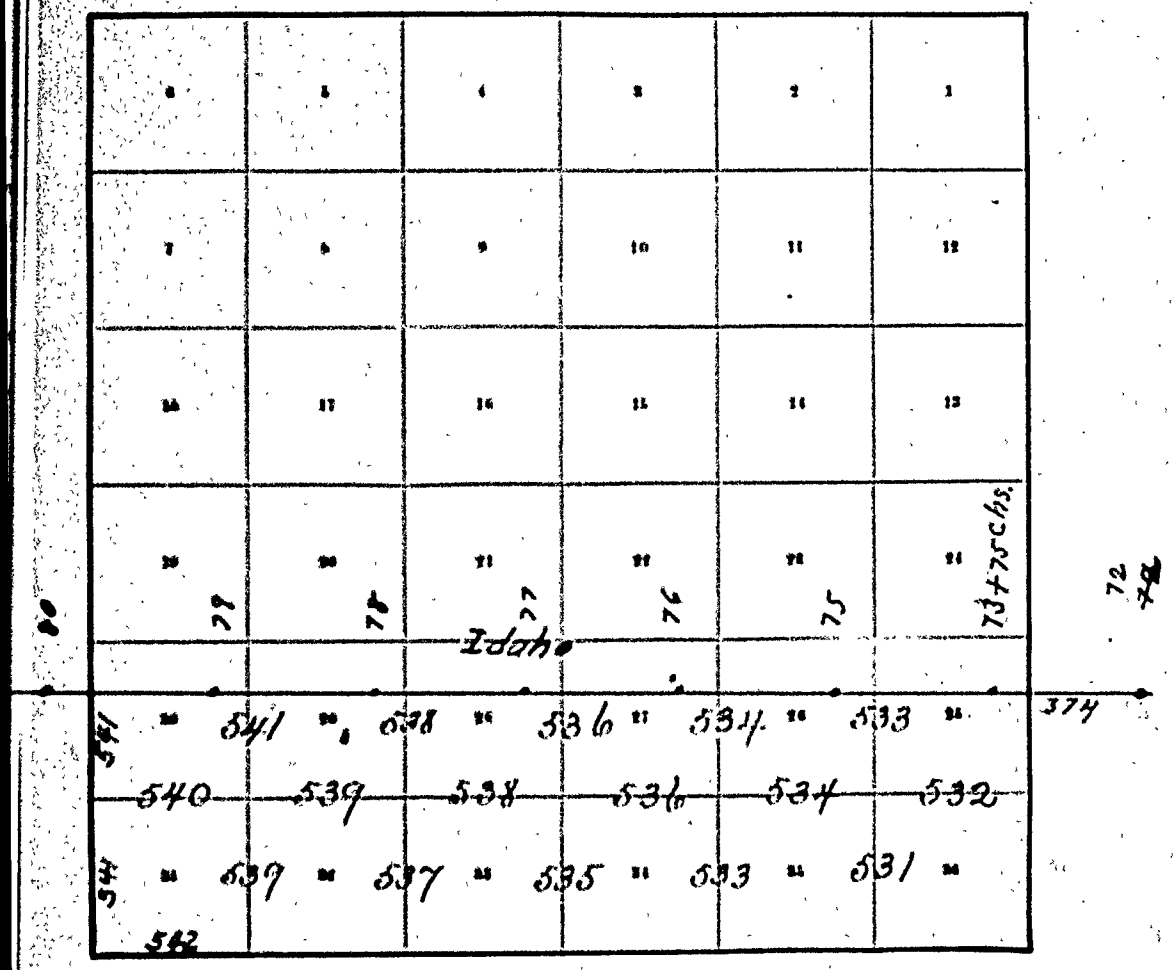
.....

.....

BOOK A-243

INDEX DIAGRAM.

Township 15 N, *Range* 6 W.



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

.....

..... *Chainm*

..... *Chainm*

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 establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey

.....

..... *Moundma*

..... *Moundma*

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

SEAL

.....

.....

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

.....

..... *Axman*

..... *Axman*

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

.....

.....

BOOK A-243

INDEX DIAGRAM.

Township 14 N, *Range* 12 W.

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

..... *Chainm*

..... *Chainm*

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 establishm of corners, according to the instructions given us, to the best of our skill and ability, in the survey .....

..... *Moundma*

..... *Moundma*

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

BOOK A-243

INDEX DIAGRAM.

Township 15 N, *Range* 12 W

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

....., *Chai*

....., *Cha*

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 establishm
of corners, according to the instructions given us, to the best of our skill and ability, in the surve
.....

....., *Moundm*

....., *Moundm*

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

....., *Axma*

....., *Axma*

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

SEAL

.....

.....

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

....., *Flagma*

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

SEAL

.....

.....

BOOK A-243

INDEX DIAGRAM.

Township 15 N, *Range* 14 W

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606 602 600 598 596

605 604 602 600 597 595

603 601 599 596 594

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

.....

..... *Chainma*

..... *Chainma*

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

.....

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

.....

..... *Axman.*

..... *Axman.*

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

.....

.....

BOOK A-243

INDEX DIAGRAM.

Township 15 N, *Range* 5 E

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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, ...a

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

.....

.....*Cha*

.....*Cha*

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 esta of corners, according to the instructions given us, to the best of our skill and ability, in the

.....

.....*Moun*

.....*Moun*

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 co and other duties, according to instructions given us, to the best of our skill and ability, in the

.....

.....

.....

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

SEAL

.....

.....

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

.....*Flagm*

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

SEAL

.....

.....

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BOOK A-243

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	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 chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we a measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su

.....

..... *Chain*

..... *Chain*

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 establishm of corners, according to the instructions given us, to the best of our skill and ability, in the

.....

..... *Mound*

..... *Moundm*

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

.....

..... *Axm*

..... *Axm*

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

SEAL

.....

.....

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

..... *Flagm*

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

SEAL

.....

.....

BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Ch*

_____, *Cha*

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 esta
of corners, according to the instructions given us, to the best of our skill and ability, in the
_____

_____, *Mound*

_____, *Moun*

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 c
and other duties, according to instructions given us, to the best of our skill and ability, in the
_____

_____, *Axm*

_____, *Ax*

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

SEAL

_____

_____

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

_____, *Flagm*

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

SEAL

_____

_____

R-
4—679.

BOOK A-243

H.J.B.

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 8 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, United States Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895

rvey commenced July 22, 1896

rvey completed July 22, 1896

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1 14.64 x
10.31 x

Closing

BOOK A-243

Names and Duties of Assistants.

E. H. Giers Chainman

D. A. Brothechee " "

Wm H. Trone Axman or Flagman

H. H. Atkinson " " "

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BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page .....

Preliminary Oaths of Assistants.

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

Subdivision of T 15 N R 8 E

Chains	Survey commenced July 22, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double vernier placed opposite to each other, reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. — The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved April 24, 1896. — Having recently tested the adjustments of the instrument in connection with the subdivision survey of T 14 N R 8 E (reference to which is hereby made) and found them correct, and being confident they so remain at present I consider it unnecessary to repeat the test now. — July 22: at 7h 30m a m, 7 m t—1 at the cor. of secs. 5-6-31 and 32 on the S. bdy. of T 15 N R 8 E in latitude 41° 59' N longitude 111° 4' W. I set off 41° 59' on the lat. arc 20° 8' N on the decl. arc and determine a true meridian with the solar. — The magnetic declination reduced as per table page 100 is .. 16° 55' E
	From the cor. above described I run N. 0° 1' E. bet. secs. 31 and 32 On mountainous slope; rolling Descending
2480	Bottom of gulch 250 ft. below cor. course E. Ascend to
3500	Top of spur 230 ft. above gulch running E Begin descent
4000	set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
4610	Bottom of gulch 190 ft. deep course S. 75° E. Ascend steep slope to
4760	Intersect Utah Idaho boundary 6,92 chs E. of 2 m post being properly marked and witnessed. — Set a limestone 18 x 11 x 6 ins. 12 ins. in the ground for closing cor. of to el secs. 31 and 32 marked

Subdivision of T.15 N.R.8 E.

1	chains	C.C.U on S with 5 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor.
		Pits impracticable.—
		Land mountainous very broken
		Soil gravely and rocky 3d rate
		No timber.—
		Mountainous land 47,60 chs
		From cor. of secs. 4-5-32 and 33 on S. bdy of T.p., I run N.0° 2' E. bet. secs. 32 and 33
		On mountainous slope,
		Descending steep slope to
	10,35	Bottom of gulch 300 ft. below cor. course E
	14,00	Begin ascent bears E and W.
	19,00	Top of spur 150 ft. above gulch, sloping S.W.
		Thence on broken W. slope ascending gradually
	40,00	Set a sandstone 16 x 14 x 7 ins. 11 ins in the ground for ¼ sec. cor. marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
		Pits impracticable.—
		This cor. stands in bottom of a ravine 60 ft. deep course W.
	47,04	Intersect Utah Idaho boundary 3,39 chs. W. of the cor. post of Utah and Idaho which is marked on separate sides Utah-Idaho-W.-42° N.L.-34 W.L.-1871
		Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of fract secs. 32 and 33 marked C.C.U. on S. with 4 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor.—
		Pits impracticable.—
		This cor. stand on steep south slope 300 ft. above top of spur.—
		Land mountainous very rugged
		Soil gravely and rocky 3d rate
		No timber
		Mountainous land 47,04 chs.—
		July 22, 1896

General Description

This fractional township is all mountainous land very rugged and broken, but the soil is quite fertile and all makes good pasture.—

There are a few bunches of scrubby cedar in the N.W.

or of all 31 but of no commercial value. —
There are no quarries nor mines nor indications of
minerals of any kind. —
There is no water within the township, nor are there
any settlers nor improvements of any kind. —

Andrew P. Hansen
U.S. Deputy Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

ving 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
e parts or portions of the .....

.....

.....

..... of the ..... base

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

cribed and sworn to before me this .....
lay of ....., 189

.....

SEAL

.....

BOOK A-283

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 Sept. 9, 1897

The foregoing field notes of the survey of the subdivision lines of Township 15 North Range 5 East of the Salt Lake Base & Meridian Utah

executed by Andrew P. Larson under his contract No. 204, dated December 8th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow

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.

8—m

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PAGE

S.
(4—679.)

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BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Third Standard Parallel North

through

Ranges 4 and 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, U. S. Deputy Surveyor,

er his Contract No. 204, dated December 30, 1895.

ey commenced July 23, 1896.

ey completed July 31, 1896.

(12503—2,000.)

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman

D H Brotherton "

Wm H Trone "

George Tuckey "

H H Atkinson Flagman

H S Lines Axman

BOOK A-243

INDEX DIAGRAM.

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

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BOOK A-243

Preliminary Oaths of Assistants.

We, E. H. Piers D. A. Brotherton and Wm. H. Trane

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will report the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us in the survey of the Third Standard Parallel North through ranges 5 and 4 East of the Salt Lake Base and meridian State of Utah

E H Piers, Chainman.

D. A. Brotherton, Chainman.

~~H. H. Atkinson~~, Chainman.

Wm. H Trane, Chainman.

Subscribed and sworn to before me this 29th day of June, 1896

Henry H. Atkinson
Notary Public

We, H. S. Lines and H. H. Atkinson

do solemnly swear that we will well and truly perform the duties of axemen or Flagmen in the establishment of corners and other duties, according to instructions given us, and to the best of our skill and ability, in the survey of the Third Standard Parallel North through ranges 5 and 4 East of the Salt Lake Base and meridian, State of Utah

Subscribed and sworn to before me this 29th day of June, 1896

H. S. Lines, Axeman.

H. H. Atkinson, Axeman or Flagman

Henry H. Atkinson
Notary Public

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BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page .....

BOOK A-243

Preliminary Oaths of Assistants.

We, I George Turkey

do solemnly swear that ~~we~~ I will well and faithfully execute the duties of chain carriers; that ~~we~~ I will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that ~~we~~ I will report the true distance to all notable objects, and the true lengths of all lines that ~~we~~ I assist in measuring, to the best of ~~our~~ my skill and ability, and in accordance with instructions given us in the survey of the 3rd Standard Parallel North through ranges 5 and 4 East of the Salt Lake Base and Meridian State of Utah

, Chainman.

George Turkey, Chainman.

, Chainman.

, Chainman.

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

Andrew P Hansen
U S Deputy Surveyor

We,

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

Subscribed and sworn to before me this day of, 18

, Axeman.

, Axeman.

Third Standard Parallel North through Range 5 East

Chains

Survey commenced July 23, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double verniers placed offset to each other reading to single minutes of arc; which is also the least count of the vernier of the latitude and declination arcs. —

The instrument was examined, tested on the true meridian at Salt Lake; found correct and was approved by the surveyor general for Utah April 24, 1896

I begin at the established standard 1/4 sec. cor. on south boundary of sec. 33 Township 1 3 North Range 5 East. Latitude 41° 49' N Longitude 111° 23' W. which is a stone firmly set marked and witnessed as described by the surveyor general. —

In order to test the solar apparatus by comparing the results of observation on the sun made during a.m. and p.m. hours with a true meridian determined by observations on Polaris I proceed as follows. —

At 3h 33m p.m. local mean time I set off 41° 49' N on the latitude arc; 19° 57' N on the decl. arc. and mark the true meridian thus determined by the solar on a stone firmly set in the ground 4.50 chs N. of my station. —

At 8h 58m p.m. 7th t. I observe Polaris, in accordance with instruction in the manual and mark the line thus determined by a tack driven in a stake set in the ground 4.50 chs N. of my station. —

Astron. 7th t. of obs. July 23, - - - - -	8h 58m .0.
U.C. Polaris - July 22 - - - - - - - - -	17° 14'. 3
Hour angle of Polaris at obs. - - - - -	15° 43'.7
Subtract from - - - - - - - - - - - -	23° 56' 1
Time argument for table II - - - - - - - -	8' 12.4
Azimuth of Polaris at obs - - - - - - - -	1° 23' E

July 23, 1896

July 24: At 7h 20m a.m. 7th t. I lay off the azimuth of Polaris 1° 23' to the west and mark the true meridian thus determined on the stone set yesterday on which the true meridian falls 0.1 lin. east of the mark determined by the solar. —

chains	I now set off 41°49' on the lat. arc; 19°43' N on the deal arc. and at 7h30m a.m. I m.t. mark the true meridian determined by the solar on the stone already set 4,10 chs N of my station; this mark agrees closely with the true meridian as established by observation on Polaris and I conclude that the error in p.m. observation is due to a slight error in leveling the instrument and that the adjustments are correct.—
	The magnetic bearing of the true meridian at 7h30m a.m. is N. 17° W.; the angle thus determined reduced by the table page 100 gives mean mag. decl. 16°54' E.—
	From the standard 1/4 sec. cor. above described I run West on S. bdy. sec. 33
	On mountainous slope, descending
23,70	Foot of slope bears N.E. and S.W.; enter bottom of gulch and Dense undergrowth
30,85	Fence course N.E. and S.W.
30,94	Irrigating ditch 4 lks. wide course N.E.
	Leave dense undergrowth and bottom of gulch
	Begin ascent on steep slope of main mountains
	Difference between measurements of 40,00 chs by two sets of chainmen is 18 lks.; position of middle point
	By first set 39,91 chs
	By second set 40,09 chs the mean of which is
40,00	Set a sandstone 18 x 11 x 6 ins. 12 ins in the ground for standard cor. of sec. 32 and 33 marked S.C. on N. with 4 groves on E and 2 groves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
	This cor. stands 175 ft. above bottom of gulch on S.E. slope
	Land mountainous
	Soil gravely wash and boulders
	No timber. - Dense undergrowth of sagebrush
	Mountainous land and dense undergrowth 40,00 chs -
	West on S. bdy. sec. 32
	On mountainous slope; ascending
13,30	Top of spur running N 55° E 200 ft. above cor. Begin descent.
20,80	Bottom of gulch 200 ft deep course N.E. Ascend to

Third Standard Parallel North through Range 5 East

chains	
	Difference between measurements of 40,00 chs. by two sets of chainmen is 14 lks; position of middle point
	By 1st set 39,93 chs
	By 2nd set 40,07 chs; the mean of which is
40,00	set a sandstone 18×8×6 ins. 12 ins. in the ground for standard 1/4 secs cor. marked S.C. 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. - Pits impracticable. —
49,00	Top of spur running N.E. 550 ft. above gulch. Descend to
54,90	Enter dense aspen brake and brush in head of gulch
66,00	Leave dense aspen brake and brush; begin ascent
70,00	Top of spur running N.E.
	Begin descent on N.W. slope
78,50	Enter dense brush
	Difference between measurements of 80,00 chs. by two sets of chainmen is 22 lks; position of middle point
	By 1st set 79,89 chs
	By 2nd set 80,11 chs; the mean of which is
80,00	set a sandstone 18×10×6 ins. 12 ins. in the ground for standard cor. of secs. 31 and 32 marked SC on N with 5 grooves on E and 1 groove on W. faces; raised a mound of stones 2 ft. base 1½ ft. high N of cor. —
	Pits impracticable. —
	Land mountainous, steep slopes
	Soil gravelly wash and boulders 3rd rate
	No timber; tall dense brush in patches
	Mountainous land 80,00 chs
	West on S. bdy sec. 31.
	On mountainous slope
	Descending in dense brush
15,75	Bottom of gulch, and dry wash 200 ft. below cor.
	course N 55° E
	Begin ascent
	Difference between measurements of 40,00 chs by two sets of chainmen is 20 lks; position of middle point
	By first set 40,10 chs.
	By second set 39,90 chs; the mean of which is
40,00	set a quartzite stone 18×8×6 ins. 12 ins. in the ground for standard 1/4 sec cor; marked SC 1/4

Third Standard Parallel North through Range 5 East

Chain on N. face: raised a mound of stones 2 ft. 1½ ft. high N of cor. – Pits impracticable
57,50 Leave dense brush bears N and S
52,10 Top of spur running S.E. 400 ft. above bottom of gulch. –
Descending
60,15 Bottom of ravine 200 ft. deep course S.
Enter dense brush, and ascend
75,50 Top of ridge 400 ft. above ravine course N and S
Leave dense brush, and begin descent
Difference between measurement of 80,00 chs. by two sets of chainmen is 16 lks.; position of m point
By 1st set 79,92 chs
By 2nd set 80,08 chs, the mean of which is
80,00 Set a sandstone 24 x 8 x 6 ins. 18 ins. in the ground for standard cor. of Tps. 13 N Rs 4 and 5 E marked S.C. 13 N. on N. 5 E on E and 4 E on W faces: with 6 grooves on N. E. and W. faces: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable. —
This cor stands 90 ft. below top of ridge on W slope
Land mountainous – steep slopes
Soil gravelly wash and boulders
No timber; dense high brush in patches
Mountainous land 80,00 chs. —

July 24, 1896.

Third Standard Parallel North through Range 4 East

Survey commenced July 30, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment for further description of which I refer to commencement of this book. –
I examine the adjustments of the instrument, it
At the standard cor. of Tp 13 N Rs 4 and 5 E as set by me July 24, 1896 at 8h 46m p.m. I set
I observe Polaris in accordance with instructions in the manual and mark the line thus determined by a lick driven in a stake set in the ground 5 chs. N. of station. –

Third Standard Parallel North through Range 4 East

chains	Astron. 7 m t of obs. July 30, ----	8h 46m.0
	U.C. Polaris July 29, ----------	16.46.8
	Hour angle of Polaris at obs. ----------	15 59.2
	Subtract from ----------	28 56.1
	Time argument for table II ----	7.56.9
	Azimuth of Polaris at obs. ------	1°26' E

July 30, 1896

July 31: At 7h 11m A.m, 7 m t I lay off the azimuth of Polaris 1°26' to the West, and mark the true meridian thus determined on the stone set July 24, 5 chs. N of my station. — The true meridian as then determined and recorded in the survey of the W. bdy of T 13 N R 5 E I find to agree without material error with the meridian as now determined. — At 7h 15m A.m, 7 m t I set off 41°49' on the lat. arc 18°5' N. on the decl. arc and mark the true meridian determined by the solar on the stone previously set 5 chs. north of my station and by examination find it to agree without material error with the meridian established by observation on Polaris; and therefor conclude the adjustments of the instrument are satisfactory. —

The magnetic bearing of the true meridian is N 17°2' W.: the angle thus determined reduced by the table page 100 gives mean mag. decl. 16°56' E

From the standard Tp cor. already described I run West on S. bdy sec. 36

On mountainous slope, descending

4,65 Enter brush and scattering timber bears N. and S

5,50 Bottom of draw 100 ft. below Tp cor. course N

Begin ascent on E slope

28,00 Top of skew N.E. 200 ft. above draw

Begin descent

32,25 Dry wash in bottom of gulch 80 ft. deep course N E

33,17 Road from Bear Lake to Cache Valley bears N.E. and S.W.

Begin ascent

39,25 Leave brush and timber bears N W and S E

Difference between measurements of 40,00 chs. by two sets of chainmen. is 22 lks, position of middle point By 1st set 4011 chs -

Chains	
	By 2nd set 39.89 chs, the mean of which is
40,00	Set a granite stone 18 x 9 x 6 ins. 12 ins in the ground for standard 1/4 sec cor. marked S C 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft high N. of cor. Pits impracticable
60,00	Top of spur S. 300 ft. above bottom of gulch
	Begin gradual descent on rolling slope
61,00	Enter dense brush and brake bears N and S
64.35	Leave " " " " " " " "
72,00	Enter dense brush and brake in bottom of draw course S.
	Begin ascent W
	Difference between measurements of 80,00 chs. by two sets of chainmen is 14 lks; position of middle point
	By 1st set 80,07 chs.
	By 2nd set 79,93 chs, the mean of which is
80,00	Set a quartzite stone 18 x 9 x 5 ins. 12 ins. in the ground for standard cor. of secs. 35 and 36 marked S.C. on N. face with 1 grove on E and 5 groves on W. faces: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable
	Land mountainous very broken
	Soil gravely wash and bowlders 3rd rate
	Timber scattering pine and spruce brush in a dense growth of brush and aspen brake
	Mountainous land 80,00 chs
	West on S. bdy. of sec. 35
	On mountainous slope, ascending
	In dense brush and scattering timber
2.00	Leave " " " " "
4,50	Top of long dividing ridge between Bear Lake water shed and Saddle Creek 90 ft. above cor. and 2500 ft above Bear Lake Valley: course N 30° W and S 30° E
	Begin descent
20,40	Enter aspen and pine timber bears N and S
32,00	Timber becomes heavy pine forest
38,20	Wood road bears N and S
	Difference by two sets of chainmen between measurements of 40,00 chs. is 12 chs, – position of middle point
	By 1st set 39,94 chs
	By 2nd set 40,06 chs, the mean of which is
40,00	Set a quartzite stone 18 x 11 x 7 ins. 12 ins –

chains	
	ground for standard 1/4 sec. cor. marked S C 1/4 on N face; from which
	A pine tree 14 ins. diam. bears N 77°10' E 43 lks. dist., marked S.C. 1/4 S B.T.
	A pine tree 19 ins. diam. bears N 36°5' W. 36 lks. dist. marked S C 1/4 S B.T.
	raised a mound of stones 2 ft. base 1½ ft. high N of cor.
40,20	Dry wash of Saddle creek in bottom of pine gulch 420 ft. below ridge course S.
	Begin ascent
61,00	Top of spur S 150 ft. above creek.
	Begin descent to
65,00	Dry wash in bottom of gulch 70 ft. deep course S E. - ascending in pine and aspen timber
	Difference between measurements of 80,00 chs. by two sets of chainmen is 20 lks.; position of middle point
	By 1st set 79,90 chs.
	By 2nd set 80,10 chs. The mean of which is
80,00	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in the ground for standard cor. of sec. 34 and 35 marked S.C. on N. face with 2 grooves on E and 4 grooves on W. faces. from which
	An aspen tree 7 ins. diam. bears N 8°15' W, 17 lks. dist. marked T 13 N R 4 E S 34 B.T.
	An aspen tree 8 ins. diam. bears N 17°56' E 43 lks dist. marked T 13 N R 4 E S 35 B.T.
	raised a mound of stones 2 ft. base 1½ ft. high N of cor.
	This cor. stands 200 ft. above bottom of gulch -
	Land mountainous, rolling
	Soil gravelly wash and bowlders - 3d rate
	Timber, - heavy forest of pine, spruce and aspen
	Mountainous land 8000 chs.-
	West bdy. sec. 34
	On mountainous slope, ascending
	In heavy timber
20,00	Top. of ridge 160 ft. above cor. course N 30° W and S 30° E
	Begin descent
29,63	Dry wash in bottom of gulch 200 ft. deep; course S. 30° E
	Ascend low rolling slope
	Difference between measurements of 40,00 chs. by two

chains	
	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 is
40,00	Set a sandstone 17×8×6 ins. 11 ins in the ground for
	standard 1/4 sec. cor. marked S.C. 1/4 on N. face, from which
	a pine tree 6 ins. diam bears N 50°10' W. 57 lks dist
	marked S.C. 1/4 S. B T
	a pine tree 8 ins. diam. bears N 77° 40' E 26 lks dist.
	marked S C. 1/4 S B.T. –
	raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
77,00	Top of slope and ridge 400 ft. above gulch bears N
	15° W and S 20° E
	Begin descent in burnt and fallen timber
	Difference between measurements of 80,00 chs; by two
	sets of chainmen is 18 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 quartzite stone 18×9×8 ins. 12 ins. in the
	ground for standard cor. of secs. 33 and 34 marked
	S C on N with 3 grooves on E and W. faces from which
	a pine tree 4 ins. diam bears N 34°30' E. 1,61 chs.
	dist. marked T. 13 N R 4 E S. 34 B.T.
	No other trees within limits. –
	Raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable. –
	Land mountainous high, rolling,
	Soil gravelly wash and boulders. 3rd rate
	Timber heavy forest of pine, spruce and aspen
	Mountainous land 8,00 chs. –
	July 31: at this cor. I set off 18°1'30" N. on the decl.
	arc and at 12h 7m p.m, 2nd observe the sun on the
	meridian; the resulting lat. is 41°49' N.
	West on S. bdy. sec. 33
	On mountainous slope, descending
	In burnt timber; much fallen
30,00	Leave timber bears N.E and S.W.
31,00	Bottom of gulch and wash 300 ft. below cor. course S.W.
31,09	Wood road course N.E. and S.W.
	Begin ascent on very broken S. slope in scattering timber
39,50	Top of spur S. begin descent
	Difference between measurements of 40,00 chs.; by two sets

chains

of chainmen is 10 links: position of middle point
By 1st set 40,05 chs.
By 2nd set 39,95 chs. The mean of which is

40,00 Set a limestone 18×9×6 ins.; 12 ins. in the ground for standard 14 sec cor. marked S.C. 14 on N. face, from which
A pine tree 5 ins. diam. bears N 70°15' E 23 links, dist. marked S C 14 S B.T.
A pine tree 7 ins. diam. bears N 54° 25' W. 60 links dist. marked S C 14 S B.T.; raised a mound of stones 2 ft. base 1½ ft. high N of cor. –

55,70 Bottom of ravine and dry wash 200 ft. deep trains S
Ascending –

62,30 Top of ridge 150 ft. high bears N and S
Descending –

77,84 Dry wash and bottom of narrow gulch 320 ft. below top of ridge course S

78,14 Wood road cross N and S.
Begin ascent on steep slope
Difference between measurements of 80,00 chs by two sets of chainmen is 24 links, position of middle point
By 1st set 80,12 chs –
By 2nd set 79,88 chs; The mean of which is

80,00 Set a limestone 18×8×6 ins.; 12 ins. in the ground for standard cor. of sec. 32 and 33 marked S C on N. with 4 grooves on E and 2 grooves on W. faces, from which
A pine tree 11 ins. diam. bears N 18°15' W. 66 links dist. marked T 13 N R 4 E S 32 B T
A pine tree 4 ins. diam. bears N 26° 45' E 65 links dist. marked T. 13 N. R 4 E S 33 B.T.
Raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
This cor. stands on steep E slope 120 ft. above wash
Land mountainous
Soil gravelly and rocky 3d rate
Timber pine of large size mainly scattering
Mountainous land 80,00 chs. –

West on S. bdy. sec. 32
On mountainous slope, ascending
In timber

12,70 Top of spur 300 ft. above cor. breaks S. abruptly
Begin descent

Third Standard Parallel North through Range 4 East

chains

2130 Bottom of gulch 240 ft. below spur course S
Ascending steep rocky slope
Difference between measurements of 4000 chs. by two sets of chainmen is 22 lks; position of middle point

By 1st set 39.89 chs.

By 2nd set 40.11 chs. the mean of which is

4000 Set a limestone 24 x 9 x 5 ins in a mound of stones 3 ft. base 1½ ft. high on rock bottom for standard 1/4 sec. cor. marked S C 1/4 on N. face from which
A pine tree 20 ins. diam. bears N 49° 30' W. 1.07 chs. dist. marked S C 1/4 S B T
No other trees within limits - Pits impracticable
This cor. stands on steep rocky slope S E 400 ft. above bottom of gulch.-
Ascending on rolling broken S slope

7654 Top of spur 300 ft. above 1/4 cor. running S.
Descending on steep S W slope in rock ledges and crags
Difference between measurements of 8000 chs. by two sets of chainmen is 20 lks; position of middle point

By 1st set 79.90 chs.

By 2nd set 8010 chs. the mean of which is

8000 Set a limestone 20 x 10 x 6 ins. 15 ins. in the ground for standard cor. of secs 31 and 32 marked S C. on N. with 5 groves on E and 1 grove on W. faces - from which
A pine tree 9 ins. diam. bears N 42° 0' E 1.19 chs. dist. marked T 13 N R 4 E S 32 B.T.
A mountain mahogany tree 6 ins. diam. bears N 19° 30' W. 5.7 lks. dist. marked T 13 N R 4 E S 31 B.T.
Raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
Land mountainous very rugged
Soil gravely and rocky 4th rate
Timber pine, mainly scattering
Mountainous land 5000 chs.-

West on S. bdy sec. 31
On mountainous slope, descending
Sw rocky ledges and crags. and scattering timber and brush
Difference between measurements of 4000 chs by two sets of chainmen is 18 lks. position middle point

chains

By 1st set 40,09 chs.
By 2nd set 39,91 chs. the mean of which is
40,00 Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for standard 1/4 sec. cor. marked S C 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable. — no trees within limits
60,00 Leave brush and scattering timber bears r w and SE at foot of steep rocky slope 900 ft below st. sec. cor. descent becomes more gradual
Difference between measurements of 80,00 chs. by two sets of chainmen is 24 lks. position of middle point.

By 1st set 80,12 chs.
By 2nd set 79,88 chs. the mean of which is
80,00 Set a temporary cor. to mark the ends of chaining and make a persistent and systematic search for the standard cor. of Tp 13 N Rs. 3 and 4 E as described by the surveyor general but no trace of it could be found. —
Land mountainous, very rugged
Soil rocky and gravely 4th rate
Timber. a few pine and mountain mahogany scattering. —
Mountainous land 40,00 chs. ---
Note:- Not being able to find the standard cor. of T. 13 N. Rs. 3 and 4 E. I abandoned this line temporarily intending to obtain additional data from the surveyor general regarding the s bdy. of T 13 N R 3 E, and also if possible, information or guidance from the deputy who made the survey or some of his assistants but physical inability caused by constant sickness has prevented me from completing this as well as other parts of the contract. —

July 31, 1896

General Description

This line throughout its entire length passes over mountainous land, being the

eastern slope of the Wahsatch Range.—
The land is rocky and no part of it suitable
for cultivation but is well watered and
contains some valuable groves of pine timber.—

Andrew P. Hansen
U S Dep Surveyor

Volume
#
R0243

List of Names.

A list of the names of the individuals employed by Andrew P Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the survey of the 3rd Standard Parallel North through ranges 5 and 4 East of the Salt Lake Base and Meridian, in the State of Utah, showing espective capacities in which they acted:

George Tuckey Chainman
H S Lines Axman

Final Oath of Assistants:

We hereby certify that we assisted Andrew P Hansen, U. S. Deputy Surveyor, in surveying all parts or portions of the 3rd Standard Parallel North through ranges 5 and 4 East of the Salt Lake Base and Meridian, State of Utah, as are represented in the oing field notes as having been surveyed by him and under his direction; and that said survey has been in all ts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, ling to the instructions furnished by the U. S. Surveyor General for Utah.

George Tuckey
H S Lines

ribed and sworn to before me this 1st day of August, 1896.

SEAL

Andrew P Hansen
U. S. Deputy Surveyor

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....

.....Meridian, in the....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

.....

Approval.

Office of the U. S. Surveyor General,

....., *18* .

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

.....

.....

.....

.....

.....

.....

.....executed by

.....

under his Contract No....., dated....., 18 , having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

BOOK A-243

List of Names.

A list of the names of the individuals employed by Andrew P Swanson, U. S. Deputy Surveyor, to assist in running, measuring, and ing the lines and corners described in the foregoing field notes of the survey of the 3rd Standard Parallel north through ranges 5 and 4 east of the Salt Lake Base and Meridian, in the State of Utah, showing espective capacities in which they acted:

E H Piers Chainman
D A Brotherton "
Wm H Trone "
George Turkey "
H H Atkinson Flagman
H S Lines Axman

Final Oath of Assistants:

We hereby certify that we assisted Andrew P Swanson, U. S. Deputy Surveyor, in surveying all parts or portions of the 3rd Standard Parallel north through ranges 5 and 4 East of the Salt Lake Base and Meridian, in the State of Utah, as are represented in the going field notes as having been surveyed by him and under his direction; and that said survey has been in all ects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, rding to the instructions furnished by the U. S. Surveyor General for

E. H. Piers Chainman
Wm H. Trone "
D. A. Brotherton "
H H Atkinson Flagman & Axman

scribed and sworn to before me this 28th day of Sept, 1896

SEAL

Henry H Atkinson
Notary Public

6—151

BOOK A-243

Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....

.....Meridian, in the....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah Sept 9, 1897

The foregoing field notes of the survey of The 3rd Standard Parallel North through Ranges 4 & 5 East of the Salt Lake Base and Meridian, Utah

.....

.....

.....

.....

.....

..... executed by Andrew P Hansen

under his Contract No. 204, dated December 30, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W Snow

U. S. Surveyor General.

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

.....

6—151

U. S. Surveyor General.

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4—679.

BOOK A-243

H.J.B.

FIELD NOTES

OF THE SURVEY OF

West and North Boundaries

of

Township No. 13 North Range No. 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895

rvey commenced July 24, 1896

rvey completed July 25, 1896

6—151

W Bdy # 6.26.60
N " 1.40.15
C Cny 22.51

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman

D A Brotherton "

Wm H Trone Axman or Flagman

H H Atkinson " " "

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BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page .....

Preliminary Oaths of Assistants.

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

.....

.....

West boundary of T 13 N R 5 E

Chains

Survey commenced July 24, 1896 and executed with a W O L E Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the Surveyor General for Utah April 24, 1896.—

Having thoroughly tested the adjustments of the instrument this morning at the Standard 1/4 sec. cor. on S. bdy of sec. 33 Tp. 13 N. R. 5 E. and found them correct I consider it unnecessary to repeat the test at this time.—

At 9h 56m am. L.m.t.: at the standard cor of Tps 13 N Rs. 4 and 5 E set by me this day. I set off 41°49' on the lat. arc, 19°41' N on the decl. arc and determine a true meridian with the solar, and mark a point in the range on a rock firmly set 5.00 chs. N. of my station for further reference.—

The magnetic bearing of the true meridian thus established at 10h 40m A.M. is N 16° 57' W.: the angle thus determined reduced by the table page 100 gives mean mag. decl. 16° 55' E.—

I begin at the standard Tp cor. already described: thence I run

North on a random line on W. bdy of Tp 13 N R 5 E setting temporary 1/4 sec. and sec. cors at intervals of 40.00 chs. and at 50 6.60 chs. intersect the S. bdy of Tp 14 N. R. 4 E. at 3.25 chs. W. of cor. of Tps. 13 and 14 N. Rs. 4 and 5 E which is a stone firmly set marked and witnessed as described by the surveyor general.— I obliterate markings on S. and E

chains of stone and place the mound N. W. of cor. —
Set a porphyry rock 18 x 10 x 7 ins. 12 ins. in the ground for closing cor. of Tp. 13 N. R. 4 E. marked CC 13 N. on S. R. 4 E. on W. with 6 grooves on S. and W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. — Pili impracticable
Thence I run
South — bet. secs. 1 and 6
On mountainous land: ascending broken slope
54,35 Woodroad bears N. E. and S. W.
66,60 Set a quartzite stone 18 x 10 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pili impracticable
This cor stands on top of ridge sloping E. — begin descent
92,40 Bottom of gulch near head, and 200 ft. below cor. course S. E.
Ascending to
101,75 Top of spur 130 ft. high course E. — Descending
106,60 Set a sandstone 17 x 9 x 8 ins. 11 ins. in the ground for cor. of secs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pili impracticable. —
Land Mountainous, rolling and broken
Soil gravely wash and boulders 3d rate
No timber: aspen brake and dense brush part way
Mountainous land 106,60 chs. —

South — bet. secs. 7 and 12
On Mountainous land: descending broken slope
40,00 Set a sandstone 18 x 8 x 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pili impracticable
54,10 Stream 6 lks. wide in bottom of gulch 300 ft. below cor. course N. 65° E. — Begin ascent
59,20 Wood road bears E. and W.
59,50 Enter dense brush and brake bears E. and W.
63,30 Leave " " " " " "
64,52 Wood and timber road from mountains to Bear Lake bears E. and W.
80,00 Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges; raised a

West boundary of T 13 N R 5 E

Chains	mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable. –
	Land mountainous, broken and rolling
	Soil gravely and rocky 3rd rate
	No timber. – Dense brush and brake nearly all the way
	Mountainous land 80,00 chs.
	South bet secs 13 and 18
	On mountainous slope, rolling, broken.
	ascending gradually
25,00	Top of slope bears E and W 250 ft. above cor.
	Enter broken rolling plateau and dense thorn
	and brush
40,00	Set a quartzite stone 24 x 9 x 7 ins 18 ins. in
	the ground for 1/4 sec. cor. marked 1/4 on W. face
	raised a mound of stones 2 ft. base 1½ ft. high
	W of cor. – Pits impracticable. –
48,00	Begin steep descent bears N E and S W; leave thorn
61,35	Enter arbor brake and brush bears E and W.
62,06	Stream 4 lks. wide course S 60° E in bottom of gulch
	330 ft. deep. –
	Begin ascent
68,00	Leave brush and brake bears E and W
71,00	Top of slope 260 ft. above stream bears E and W
	Enter rolling plateau and ascend gradually
80,00	Set a granite stone 18 x 10 x 8 ins. 12 ins. in the
	ground for cor of secs. 13-18-19 and 24 marked
	with 3 notches on N. and S. edges; raised a mound of
	stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable. –
	Land mountainous very broken
	Soil gravely and rocky 3rd rate
	No timber. – Dense brush and brake
	Mountainous land 80,00 chs. –
	July 24: at this cor. I set off 19°39'30" N on the decl.
	arc and at 12h 6m p.m. 7m 2s observed the sun on
	the meridian: The resulting lat. is 41°57'30"
	South bet. secs. 19 and 24
	On mountainous slope, rolling, broken,
	ascending gradually in dense brush
7,50	Top of spur 60 ft. high running E. –

West boundary of T 13 N R 5 E

chains	
	Begin descent
8,20	Spur branch 4 lks wide in bottom of gulch 50 ft deep course E. —
	Ascending steep slope; and leave brush bears S and W
11,50	Top of gulch and spur running E. 20 ft. above gulch
	Descending
15,00	Enter brush bears E and W
30,55	Old wood road bears E and W
40,00	Set a sandstone 18 x 8 x 4 in. 12 in. in the ground for 1/4 sec cor. marked 1/4 on W. face, whence an aspen tree 5 in. diame. bears S 43° E 17 lks. dist. marked 1/4 S B.T.
	An aspen tree 6 in. diame. bears N 88° W. 12 lks. dist marked 1/4 S.B.T.
	raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
60,00	Top of ridge 450 ft above sec. cor. bears E and W
	Begin descent
62,65	Leave brush and brake bears N W and S E
68,30	Bottom of gulch 300 ft. deep course S E
	Ascend steep slope
75,25	Enter dense brake and brush bears N. W. and S E
80,00	Set a sandstone 18 x 10 x 6 in. 12 in. in the ground for cor. of secs. 19-24-25 and 30 marked with 4 notches on N and 2 notches on S edges — raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inaccessible. —
	This cor. stands 300 ft. above bottom of gulch
	Land mountainous very broken
	Soil gravelly and rocky 3rd rate
	No timber, — dense aspen brake and brush
	Mountainous land 80,00 chs. —

	South bet. secs. 25 and 30
	On mountainous slope
	Ascending in dense brush
5,50	Top of spur running E 60 ft. above cor.
8,40	Bottom of gulch 460 ft. deep and stream 4 lks. wide course N E
	Ascending
4,00	Set a sandstone 18 x 10 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a

[illegible]	mound of stones 2 ft base 1½ ft high W. of cor. – Pits impracticable
52.00	Enter rolling plateau sloping E 300 ft above stream, course E and W.
	Ascending gradually
80.00	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for cor of secs. 25-30-31 and 36 marked with 5 notches on N, and 1 notch on S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Land mountainous very broken
	Soil gravely wash and bowlders 3d rate
	No timber; dense brush and aspen brake
	Mountainous land 8000 chs. –
	July 24, 1896
	July 25, at 7h 5m a.m. l.m.t. I set off 41°50' on the lat. arc 19° 30' 30" N on the decl. arc and determine a true meridian with the solar at the cor of secs. 25-30-31 and 36
	Thence I run
	South bet. secs. 31 and 36
	On mountainous land
	Descending gradually on rolling plateau sloping E; in dense brush
10.35	Leave dense brush
21.00	Begin descent on steep slope, bears E and W.
30.12	Dry wash in bottom of gulch 260 ft. deep. Course S.E. –
	Ascending
37.00	Top of spur sloping E 60 ft. high.
	Begin descent
40.00	An aspen tree 4 ins. diam for ¼ sec. cor. marked ¼ S. on W. side, whence
	an aspen tree 6 ins. diam. bears S 27°5' E. 22 lks. dist marked ¼ S B.T.
	an aspen tree 6 ins. diam. bears N 14°10' E 14 lks. dist. marked ¼ S B.T.
46.00	Road from Bear Lake to Cache Valley bears NE and S.W. in bottom of gulch 430 ft. deep

West boundary of T 13 N R 5 E.

Chains	
47,95	Dry wash course N.E.
	Begin ascent on steep rocky slope
56,00	Leave brush bears N.E and S.W.
65,85	Top of gulch bears N.E and S.W. 600 ft. above wash: thence ascending gradually on N W slope
80,00	The standard cor. of Tps. 13 N R 4 and 5 E.
	Land mountainous very broken
	soil gravely and rocky 3rd rate
	No timber of large size: aspen brake and dense high brush. -
	Mountainous land 80,00 chs. -

From the established 1/4 sec. cor. bet. secs. 5 and 32 on N. bdy of Tp 13 N. R. 5 E. which is a stone firmly set marked and witnessed as described by the surveyor general I run:-

West on a random line along the N. bdy of T 13 N. R. 5 E. setting temporary 1/4 sec. and sec cors. at intervals of 40,00 chs. and at 120,15 chs intersect the W. bdy of Tp. at 19,26 chs. S. of the closing cor. of Tps 13 N R 4 E — established by me July 24 1896. -

Set a sandstone 18 x 9 x 7 ins 12 ins in the ground for closing cor. of Tps. 13 and 14 N R 5 E marked C.C. 5 E. on E & T. 13 N. on S T 14 N. on N. faces: with 6 grooves N. and E faces: raised a mound of stone 2 ft base 1½ ft. high E of cor.

Pits impracticable

Thence I run

East bet secs. 6 and 31

On mountainous land.

Descending on broken slope

12,35 Woodard bears N 25° E and S 25° W.

30,20 Bottom of gulch 100 ft deep course N 10° E

Ascending to

40,15 Set a quartzite stone 18 x 12 x 10 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4

North boundary of T13N R5E

chains	
	on N face: raised a mound of stones 2 ft base 1½ ft high N of cor.
	Pits impracticable
	This cor stands on top of spur sloping N.
40,50	Begin descent
52,40	Bottom of narrow gulch 420 ft below 1/4 sec cor. course N 5° E.
	Begin steep ascent
71,60	Top of ridge 650 ft above gulch bears N and S.
	Begin gradual descent
80,15	Set a quartz stone stone 18 x 9 x 6 ins. 12 ins. in the ground for cor. of secs. 5-6-31 and 32 marked with 1 notch on W and 5 notches on E edges: raised a mound of stones 2 ft base 1½ ft. high N. of cor.
	Pits impracticable
	Land mountainous very broken
	Soil gravelly wash and boulders 3rd rate
	No timber: dense high brush in patches
	Mountainous land 80,15 chs. —

	East bet. secs. 5 and 32
	On mountainous land
	Descending on steep cliffs
40,00	The 1/4 sec. cor. bet. secs. 5 and 32
	This cor. stands 600 ft below cor of secs. 5-6 31 and 32. —
	Land mountainous
	Soil gravelly wash and boulders 3rd rate
	No timber: Dense underegrowth
	Mountainous land 40,00 chs. —
	July 25/1896

The unsurveyed portion of this township consist of rough broken foothills and bench-land. — The soil is fertile and in part suited for cultivation. —
The township is watered by some small springs and streams; has no timber of value but much of it is covered with a rank growth of brake and brush. —

Boundaries of T 13 N R 5 E

The township should be subdivided —
Andrew P Swanson
U S Dep. Surveyor

Volume
#
R0243

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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

rking the lines and corners described in the foregoing field notes of the survey of .....

.....

wing 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

se parts or portions of the .....

.....

.....

..... of the ..... base

l ..... meridian, ... of ....., which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

ner monuments established, according to the instructions furnished by the United States Surveyor

neral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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97-95 Book

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 Sept 9 1897

The foregoing field notes of the survey of The West & North Boundaries of Township 13 North Range 5 East of the Salt Lake Base & Meridian, Utah

executed by Andrew P Hansen

under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow

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.

No. J. B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No. 13 North Range No. 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895

rvey commenced July 26th, 1896

rvey completed " 28th, 1896

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15.48.95

Retracement 106.50

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman

D A Brotherton "

Wm H Trone Axman or Flagman

H H Atkinson " " "

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BOOK A-243

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Meanders Page .....

Preliminary Oaths of Assistants.

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

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ day of _____, 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 T13N R5E

chains	
	Survey commenced July 26, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc. which is also the least count of the verniers of the latitude and declination arcs. —
	The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24. 1896. -
	Before commencing the survey I go to the standard 1/4 sec. cor. on S bdy. of sec. 33 T13N R5E and at 7h 12m a m, 2m set off 41°49' on the lat. arc 19°17' N on the decl arc. and compare the true meridian determined by the solar with the true meridian established at this place by observation on Polaris on July 24, 1896 at the commencement of the survey of the 3d Standard Parallel North through Range 5 E. reference to which is hereby made. - I find the two meridians to agree without material difference and therefor conclude the adjustments of the instrument are correct, —
	I begin at the standard cor. of secs 32 and 33 on S. bdy. of T 13N R 5 E.
	Thence I run
	N 0°2' E on a random line bet. secs. 32 and 33
4,00	set temp 1/4 sec. cor.
80,39	Intersect S bdy of sec. 28 extended westward 14 lks - W. of cor. of secs - 28-29-32 and 33 which is a stone firmly set. marked and witnessed as described by the surveyor general. -
	Thence I run
	S 0°8' W on a true line bet. secs. 32 and 33
	On mountainous slope; rolling
	Ascending gradually
18,40	Top of spur running E 170 ft. above cor.
	Descend to
27,10	Bottom of gulch 200 ft. deep. course E
	Ascending
30,20	Top of gulch bears E and W. Thence over rolling

chains	
	broken surface sloping E. to valley
40,39	Set a sandstone 18 x 12 x 5 ins. 12 ins in the g for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
63,00	Descend W
67,70	Bottom of gulch 140 ft. deep course E
	Begin ascent - on rolling surface
79,50	Top of spur running N 65° E
	Descend W
80,39	The standard cor. of secs. 32 and 33
	Land mountainous, broken slope
	Soil gravelly wash and boulders. —
	No timber. —
	Mountainous land 80,39 chs. —

From the standard cor. of secs. 31 and 32 on S bdy of T 13 N R 5 E I run
N 0° 1' E. bet. secs. 31 and 32
On mountainous slope
Descending in dense brush

10,40	Bottom of gulch 200 ft. below cor. course N 60° E
	Begin ascent on deep broken slope
46,00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
54,00	Top of ridge 600 ft. above gulch bears N.E. and S.W.
	Begin descent on rolling slope.
80,00	Set a sandstone 16 x 8 x 7 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: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —

This cor. stands on N.E. slope in dense brush and 250 ft. below top of ridge
Land mountainous very rugged
Soil gravelly wash and boulders. —
No timber — Dense, high brush and brake
Mountainous land 80,00 chs. —

East on a random line bet. secs. 29 and 32

Subdivision of T 13 N R 5 E

Chains	
4,00	Set temp. 1/4 sec. cor.
80,28	Intersect N and S line 17 lks S of cor of secs. 28-29 32 and 33 —
	Thence I run
	S.89°53' W. on a true line bet. secs. 29 and 32
	On mountainous slope, rolling
	Ascending
36,75	Enter brush bears N and S.
39,70	Leave brush bears N and S
40,14	Set a red sandstone 17x9x8 ins, 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
66,50	Top of ridge 650 ft. above sec cor. bears nearly N and S.
	Begin descent
76,62	Enter dense brush bears N W and S E
77,00	Bottom of ravine 200 ft. below top of ridge course N 25° W
	Ascend to
80,28	The cor. of secs. 29-30-31 and 32
	Land mountainous
	soil gravelly wash and bowlders 3d rate
	No timber. —
	Mountainous land 80,28 chs -
	July 26: At this cor I set off 19°12' N on the decl. arc and at 0h 6m p m, 7 m T. observe the sun on the meridian; the resulting lat. is 41°50'.

	West on a random line bet. secs. 30 and 31
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect W. bdy of Tp. at cor. of secs. 25-30-31 and 36
	Thence I run
	East on a true line bet. secs. 30 and 31
	On mountainous slope, rolling.
	Descending gradually in dense brush
4,30	Steep descent bears N and S, leave brush
9,00	Enter dense brush
40,00	Set a sandstone 18x7x6 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.

Subdivision of T 13 N R 5 E.

chains	Pits impracticable
41,60	Bottom of gulch 250 ft. deep course S 15° E
	Ascend to
43,00	Top of spur 100 ft. high running S to canon
	Descend to
52,80	Dry wash in bottom of canon 600 ft. below sec cor on W. bdy course N
53,50	Road from Bear Lake to Cache Valley bears N & and S.W
	Begin ascent on N. slope
70,00	Top of spur sloping N to canon 300 ft. high
	Descend to
80,00	The cor. of secs. 29-30-31 and 32
	Land Mountainous, very broken
	Soil gravely wash and boroulders –
	No timber. – Dense brush and brake
	Mountainous land 80,00 chs –
	N 0°1' E bet. secs 29 and 30
	On Mountainous surface
	Descending, in dense brush
2,80	Bottom of ravine 60 ft. below cor. course N 25° W
	Ascending on W slope to
3,25	Leave brush bears N W and S E
9,40	Top of spur running N. W 100 ft. high
	Begin descent on steep N slope
16,96	Bottom of canon 290 ft. below spur and road
	from Bear Lake to Cache Valley bears N.E. and S.W
17,30	Dry wash course N.E.
	Begin ascent on steep broken slope
37,00	Top of canon, and spur running N 65° E 470 ft. above
	wash. –
	Begin gradual descent on N.E. slope
40,00	Set a sandstone 18 x 9 x 6 ins 12 ins. in the ground
	for 1/4 sec cor. marked 1/4 on W. face; raised a
	mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable. —
	Descend to
57,80	Bottom of gulch 450 ft. deep course N 60° E
	Ascend to
64,00	Top of gulch and spur running E. 200 ft. high
	Descend
67,90	Bottom of gulch 100 ft. deep course E
	Ascend to

Subdivision of T13N R5E

chains	
74,10	Top of spur running E 90 ft. high
	Descending on rolling surface
80,00	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W of cor.
	Pits impracticable. –
	Land mountainous, broken
	Soil gravely wash and bowlders 3d rate
	No timber
	Mountainous land 80,00 chs. –
	N 89° 53' E on a random line bet. secs. 20 and 29
40,24	The 1/4 sec. cor. bet. secs. 20 and 29 bears N 10 lks. dist. being a stone firmly set marked and witnessed as described by the surveyor general. –
	Thence I run
	S 89° 45' W. bet. W ½ of secs. 20 and 29
	On mountainous slope, rolling
	Ascending, to
40,24	The cor. of secs. 19-20-29 and 30
	This cor stands 430 ft. above the 1/4 sec cor. –
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber
	Mountainous land 40,24 chs. –
	West, on a random line bet. secs. 19 and 30
40,00	Set temp 1/4 sec. cor.
80,00	Intersect N. bdy. of Tp. at cor. of secs. 19-24-25 and 30
	Thence I run
	East on a true line bet. secs 19 and 30
	On mountainous slope, descending
	In dense undergrowth
3,00	Leave brush bears N.W. and S.E.
8,85	Dry wash in bottom of gulch 300 ft. below cor. course SE
	Ascending on rocky slope to
14,30	Top of spur running SE 100 ft. high
	Descending to
40,00	Set a quartzite stone 17 x 8 x 6 ins. 11 ins. in the ground

Chains	for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. height N. of cor. Pits impracticable.—
44,50	Enter bottom of gulch and dense brush, bears N.E. and S.W. 400 ft. below top of spur
45,40	Stream 4 lks wide course N.E.
47,00	Begin ascent
59,00	Top of spur running N 200 ft. above stream Begin descent
80,00	S.W. cor. of sec. 19-20-29 and 30. This cor. stands 200 ft. below spur on N.E. slope Land mountainous Soil gravelly and rocky 3rd rate Timber a strip of aspen of small size along stream Mountainous land 80,00 chs.— July 26, 1896

July 27: I run
N 0° 1' E bet. secs. 19 and 20
On mountainous slope; descending

27,10	Stream 6 lks wide course N 65° E at foot of slope 240 ft. below sec. cor.; enter low rolling foothills Ascending gradually
	In dense undergrowth—
28,66	Wood road bears nearly E and W.
34,15	Top of spur running E. 40 ft. high Descending to
40,00	Set a quartzite stone 16 x 8 x 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable.— This cor. stands at ft. of slope 50 ft. below spur in aspen brake and brush.—
40,67	Spring branch 2 lks wide flows E Ascend gradually to
55,50	Top of spur running E 30 ft. high Begin descent
57,55	Creek 10 lks wide course N 75° E Leave rolling hills and ascend on mountainous slope
80,00	After diligent search no sec. cor. could be found nor any trace of same, witness a radius of 4 chs. hence Set a granite stone 18 x 11 x 8 ins. 12 ins. in the ground

chains	
	for cor. of secs. 17-18-19 and 20 marked with 3 notches on S. and 5 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Land mountainous, and rolling foothills
	Soil gravely wash and bowlders 2nd and 3rd rate
	No timber
	Dense undergrowth of thorn, aspen brake and brush
	Mountainous land and dense undergrowth 8,00 chs
	N 89° 45' E on a random line bet. secs. 17 and 20
40,17	The ¼ sec. cor. bet. secs. 17 and 20 bears N. 6 lks. dist. being a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run
	S 89° 40' W. on a true line bet. secs 17 and 20
	In low swampy meadow: and dense undergrowth
12,50	Jed. N. Kimball's house bears N. 9,00 chs. —
25,05	Fence bears N. and S.: leave meadow and ascend
40,17	The cor. of secs. 17-18-19 and 20
	Land sloping broken foothills
	Soil gravely wash and bowlders 3rd rate
	No timber
	Dense undergrowth of willow thorn and brush
	Dense undergrowth 40,17 chs —
	West on a random line bet secs. 18 and 19
40,00	Set temp. ¼ sec. cor.
79,92	Intersect W. bdy. of Tp. 16 lks N of cor of secs. 13-18-19 and 24
	Thence I run
	N 89° 53' E. on a true line bet. secs 18 and 19
	On mountainous slope; descending
16,24	Enter aspen brake bears N and S.
27,92	Stream 4 lks wide course N 20° E in gulch 250 ft. below sec. cor
	Begin ascent on steep rocky slope; leave brush bears N and S: breaks N to creek abreast
39,60	Top of ridge, sharp and rocky, 300 ft above stream bears N and S
	Begin descent
39,96	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground

Chains	
	for 1/4 sec cor. marked 1/4 on N. face; raised a mound of stones 2 ft. high 1½ ft. high N. of cor. Pits impracticable.—
	This cor. stands under a rocky crag 10 ft. high
49,70	Enter dense brush bears N W and S E
51,15	Stream 6 lks wide in bottom of gulch 450 ft. below 1/4 sec cor. course S 60° E
	Begin ascent
53,08	Leave brush bears N W and S E
60,00	Top of spur running S E
	Descend to
79,92	The cor. of secs. 17-18-19 and 20
	Land mountainous very broken
	Soil gravelly and rocky 3d rate
	No timber; aspen brake and brush
	Mountainous land 79,92 chs—

	N. 0° 1' E. bet. secs. 17 and 18
	On mountainous slope, rolling
	Ascending
7,50	A spring 20 lks diam bears E 3,50 chs. flows E
12,80	Top of spur E. 130 ft. above cor.
	Begin descent on rolling surface
29,38	Dry wash in bottom of gulch 300 ft. deep course E
	Ascend to
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable
48,00	Top of spur E. 100 ft. high.
	Descending gradually on rolling surface
55,06	Irrigating ditch 5 lks. wide course S. E.
58,25	Wood road bears N. W. and S. E.
60,37	Dry wash in bottom of gulch 120 ft. deep course S. E.
	Begin ascent
69,40	Top of spur S. E. 120 ft above wash
	Descend to
73,45	Dry wash in bottom of gulch 130 ft. deep course S 25° E
	Ascending in side of wash in brush
80,00	Set a quartzite stone 16 x 8 x 6 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; raised a mound

Subdivisions of T 13 N R 5 E

chains	stones 2 ft. base 1½ ft. high N of cor. –
	Pits impracticable
	Land mountainous broken
	Soil gravely wash and bowlders 3d rate
	No timber
	Mountainous land 80,00 chs. –
	July 27: The sky being overcast during the hour hour I was unable to observe the sun on the meridian. –
	East on a random line bet. secs. 8 and 17
4,00	set temp 1/4 sec cor –
80,47	Intersect N and S line 38 lks. S of cor. of secs. 8-9-16 and 17 which is a stone firmly set marked and witnessed as described by the surveyor general. –
	Thence I run
	S 89°44' W on a true line bet secs. 8 and 17
	ascending, on mountainous slope, broken
40,23½	set a quartzite stone 18 x 7 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base ½ ft. high N of cor. Pits impracticable. –
64,00	Top of ridge 800 ft. above cor of secs. 8-9-16 and 17 bears N 25° W and S 25° E –
	Begin descent on steep slope.
80,47	The cor. of secs. 7-8-17 and 18
	This cor stands 300 ft. below top of ridge
	Land mountainous very rugged
	Soil gravely wash and bowlders –
	No timber
	mountainous land 80,47 chs –
	S 89°53' W on a random line bet. secs. 7 and 18
4,00	set temp. 1/4 sec. cor.
80,06	Intersect W bdy of T/p 16 lks N of cor. of secs. 7-12-13 and 18
	Thence I run
	N 89°46' E on a true line bet. secs. 7 and 18
	On mountainous slope, descending
22,95	Stream 5 lks wide flows from N to S E in bottom of gulch 300 ft. below cor.
	Ascending on rolling slope S.

Subdivision of T 13 N R 5 E

Chains	
38,50	Top of spur S 200 ft. above gulch
	Descend
40,03	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable
	Thence over rolling surface descending gradually
66,85	Bottom of draw S. 190 ft. below 1/4 sec. cor.
	Ascending to
73,70	Top of ridge bears N.W. and S.E. 100 ft. high
	Descending to
79,00	Enter brush along bottom of gulch
79,55	Dry wash in bottom of gulch 100 ft. deep course S 15° E.
	Ascend to
80,06	The cor. of secs. 7-8-17 and 18
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber
	Mountainous land 80,06 chs. –

July 27: At 3h 50m p.m., l.m.t. I set off 41° 52' on the lat. arc 18° 5' 30" 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

N 0° 1' E. bet. secs. 7 and 8

On mountainous slope, deep and rocky

Ascending

34,00	Top of ridge 6,53 ft. above cor. bears N 20° W and S 20° E. –
	Begin gradual descent on E slope, rolling
37,35	Enter dense brush bears E. and W.
40,00	An aspen tree 4 ins. diam. for 1/4 sec cor. marked 1/4 on N. face whence
	An aspen tree 4 ins. diam. bears N 44° 30' E 8 lks. dist. marked 1/4 S B.T.
	No other trees of proper size within limits
	Pits impracticable. –
42,00	Leave brush and brake bears E and W
53,00	Enter brush and brake bears E and W

Subdivision of T13N R5E

chains	
5-6,60	Leave brush and brake bears E and W
5-8,00	Head of gulch course E. 50 ft. deep
	Ascending to
5,00	Top of spur E 60 ft high
	Descending
7,08	Enter dense brush and brake bears E and W
7+,80	Leave dense brush and brake bears E and W
8,00	Set a quartzite stone 17x10x6 ins. 11 ins in the ground for cor of secs. 5-6-7 and 8 marked with 5 notches on S and E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.-
	Land mountainous, broken slope
	Soil gravelly wash and boulders 3rd rate
	No timber.- Dense high brush and aspen brake in patches
	Mountainous land 80,00 chs.—
	N 89°44' E on a random line bet. secs. 5 and 8
40,22	The 1/4 sec cor. bet. secs. 5 and 8 bears N. 5 chs. distant being a stone twenty cts marked and witnessed as described by the surveyor general.-
	Thence I run
	S 89°46' W. on a true line bet. N 1/2 of secs 5 and 8
	On mountainous slope, steep and rocky
	Ascending.
40,22	The cor. of secs. 5-6-7 and 8
	This cor. stands 600 ft. above the 1/4 sec. cor.
	Land mountainous, steep broken slope
	Soil gravelly wash and boulders 3rd rate
	No timber.-
	Mountainous land 40,22 chs.-
	July 27, 1896
	July 28: I run
	S 89°46' W on a random line bet. secs. 6 and 7
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect W. bdy of Tp. at cor. of secs 1-6-7 and 12
	Thence I run
	N 89°46' E., on a true line bet. secs. 6 and 7

Subdivisions of T 13 N R 5 E

chains	
	On mountainous slope, rolling and broken
	Descending in dense brush
19,80	Bottom of gulch 200 ft. deep, and dry wash course S 6
	ascending W
33,00	Top of spur S, 30° E 230 ft. high; leave brush bears N and
	Descend on rolling slope
40,00	Set a quartzite stone 18 x 8 x 5 ins. 12 ins in the
	ground for 1/4 sec cor. marked 1/4 on N face;
	raised a mound of stones 2 ft base 1½ ft. high
	N. of cor. – Pits impracticable. –
47,05	Bottom of gulch 300 ft. below spur course S 15° E
	Begin ascent on steep slope
67,00	Top of ridge 400 ft. above gulch bears nearly N and S
	Descending on rolling slope W
80,00	The cor. of secs. 5-6-7 and 8
	This cor. stands 150 ft. below top of ridge on E. slope
	Land mountainous very broken
	Soil gravelly wash and boulders 3d rate
	No timber. – Dense high brush and brake in patches
	Mountainous land 80,00 chs. –

	N. 0° 1' E. on a random line bet. secs. 5 and 6
40,00	Set temp 1/4 sec. cor.
87,20	Intersect N. bdy. of Tp. 8 chs. E. of cor. of secs. 5-6-31 and 32.
	Thence I run
	S 0° 2' E on a true line bet. secs. 5 and 6
	On mountainous slope E, rolling
1,00	Enter dense brush and brake bears W and N E
10,15	Leave " " " " " N.E on S.W.
20,85	Enter " " " " " E and W.
23,00	Leave " " " " " E and W
47,20	Set a quartzite stone 16 x 8 x 6 ins. 10 ins. in the
	ground for 1/4 sec cor. marked 1/4 on N. face
	raised a mound of stones 2 ft. base 1½ ft. high N.
	of cor. – Pits impracticable. –
55,50	Head of gulch 70 ft. deep course E W N E
	Ascending gradually W
87,20	The cor of secs. 5-6-7 and 8
	Land mountainous steep broken slope
	Soil gravelly wash and boulders 3d rate
	No timber. – Dense brush and brake in patches.

Subdivision of T 13 N. R. 5 E.

Chains | Mountainous land 87.20 chs.
July 28, 1896 11 a.m.

General Description

The unsurveyed portion of this township is all mountainous land very broken and rough with the exception of a few small creeks and patches along the eastern base of the mountains, of sloping bench and valley which will be cultivated.—
The mountainous land is all excellent pasture and valuable as such.—
There is no timber excepting a scattering growth of aspen brake, the trees being all small and should rather be called brush than timber.—
The township is in great part covered with a dense growth of brush and thorn of various varieties reaching a height of from 6 to 15 feet, very close and hard to penetrate.—
There are no quarries nor mines of any kind nor any indication of mineral veins
The township is watered by a few small streams
There are no settlers within this portion of the township.— William E Jenkins applicant for survey of this township is located in sec 4 T 12 N R 5 E. but his claim does not, as he thought extend beyond said township
Desert Entry 4091 is still occupied by the applicant Jas S Moffat and used for pasture purposes in connection with a farm in S E 1/4 of sec. 33.
Desert Entry 2624 in sec. 17 has been abandoned by the claimant Solomon T Kimball, no improvements was made on it.—

Andrew P Swanson
U. S. Deputy Surveyor

Retracements in T 13 N R 5 E

From the cor. of secs. 4-5-32 and 33 on N. bdy. of Tp which is a stone firmly set marked and witnessed as described by the surveyor general. I run
South on a retracement line bet. secs. 4

Retracements. T 13 N R 5 E

Chains	and 5
40,00	A diligent search was made for the 1/4 sec cor. but no trace of it could be found.
8,56	Intersect the cor. of secs. 4-5-8 and 9 which is a stone firmly set marked and witnessed as described by the surveyor general. The course of this line is therefor south as stated by the surveyor general. —

Note: My reason for running the latitudinal sec. lines parallel to W. bdy of Tp. was that while it does not conflict with instructions in the manual it avoids additional lots along the W. bdy; it being in any case necessary to lot adjacent to the older survey. —

Andrew P Hanson
U S Dep. Surveyor

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

rking the lines and corners described in the foregoing field notes of the survey of .....

.....

wing 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

se parts or portions of the .....

.....

.....

..... of the ..... base

d ..... meridian, ... of ....., which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

rner monuments established, according to the instructions furnished by the United States Surveyor

neral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

bscribed 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 ..... 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, Sept. 9, 1897

The foregoing field notes of the survey of The Subdivisions of T 13 N. R 5 E. of the Salt Lake Base & Meridian Utah

executed by Andrew P. Hanson under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Grant
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.

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K.J.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

West and South Boundaries

of

Township No. 15 North Range No. 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

under his Contract No. 204, dated December 30, 1895

survey commenced July 29, 1896

survey completed July 29, 1896

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L. 28, 53
26, 63

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman

D A Brotherton "

Wm H Trone Axman or Flagman

H H Atkinson " " "

6—151

BOOK A-243

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.....

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

.....

.....

West boundary of T 15 N. R 5 E

chains	Survey commenced July 29, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs - The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896. - Having tested the adjustments of the instrument July 24, and 26, 1896 at the standard 1/4 sec. cor. on S. bdy sec. 33 T 13 N R 5 E in connection with the survey of exterior and subdivision lines of said Tp., reference to which is hereby made, and found them correct, and being confident they still so remain I consider it unnecessary to repeat the test at this time. - July 29; at the cor of Tps. 14 and 15 N Rs 4. E. latitude 41°59' N longitude 111°26' W. which is a stone firmly set marked and witnessed as reestablished by me this day; at 2h 05m p m, 7 m t O. set off 41°59' on the lat. arc, 18°30' N on the decl. arc and determine a true meridian with the solar. - The mean mag. decl. as reduced by table page 100 is 16°56' E. —
	From the cor. already described I run North bet. secs. 31 and 36
	On Mountainous slope
	Ascending
2,10	Top of spur S. 75° E
	Thence over rolling surface
11,80	Head of gulch draining S 70° E
	Ascending to
20,50	Top of spur E 200 ft above cor.
	Descending
23 88	Intersect Utah Idaho boundary at 24,85 ch. N 88°40' E of 21 mile post. -

West boundary of T 15 N R 5 E

chains	Set a limestone 17x10x8 ins. 11 ins. in the ground for closing cor. of Tp. 15 N Rs 4 and 5 E. marked C.C.W on S. with 6 groves on E and W. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor. —
	Pits impracticable
	This cor. stands on a steep N. slope 200 ft below top of spur. —
	Land mountainous very broken
	Soil gravely and rocky 3rd rate
	No timber; brush and brake in patches
	Mountainous land 23,88 chs. —
	From the established cor. of secs 5-6-31 and 32 on S. bdy. of Tp 15 N. R. 5 E. which is a stone firmly set marked and witnessed as described by the surveyor general I run West on a random line bet. secs. 6 and 31
40,00	Set temp. ¼ sec. cor.
84,65	Intersect E. bdy. of Tp 14 N R 4 E at 11,78 chs. S. of cor. of Tps 14 and 15 N Rs 4 and 5 E from which cor. I obliterate marks on E. edge, thence I set a limestone 18x14x6 ins. 12 ins. in the ground for closing cor. of Tps. 14 and 15 N. R. 5 E. marked C.C. on E. with 6 groves on N. S. and E. faces: raised a mound of stones 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable
	Thence I run
	East on a true line bet secs. 6 and 31.
	On mountainous land
	Descending on side of gulch on S.E. slope
37,75	Bottom of gulch bears N. 75° E. 200 ft. below closing cor.
	Begin gradual ascent to
44,65	Set a limestone 18x9x6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable

South boundary of T 15 N R 5 E

chains	
47,10	Top of spur N 20° E 100 ft above gulch
	Descending on rolling slope
77,03	Fence bears nearly N and S
82,14	Irrigating ditch 6 lks wide course N 15° W
84,65	The cor. of secs 5-6-31 and 32
	This cor stands 500 ft below the closing cor.
	Land mountainous rolling
	Soil gravely wash and bowlders 3d rate
	No timber.
	Mountainous land 84,65 chs. —
	July 29, 1896

Boundaries of T 15 N R 5 E
Latitudes departures and closing errors

Line designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs	chs	chs	chs	chs
South boundary	West	118,15				118,15
West "	North	35,66	35,66			
Utah Idaho "	East	55,15			55,15	
" " "	N 88° 40 E	74,30	1,72		74,27	
Meander of Bear Lake	S 16° 45' W	38,60		36,96		11,12
Convergency					,17	
			37,38	36,96	129,59	129,27
Totals			36,96		129,27	
Errors of lat and dep			0,42	.....	0,32	

This township is composed of broken foot-hills which here extend close to the lake margin. — There is no water within the township, and no timber. —
The soil is fertile and parts of it is suited for cultivation. —

Andrew P Hansen
U.S. Dep. Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., 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

..... meridian, ... of ....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the 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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BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

&

Resurvey of West Boundary

of

Township No 14 North Range No 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced July 29, 1896

Survey completed July 30, 1896

Res W Bdy # 6.00.10 ✓
Subs # 10.40.21 ✓
Closg 1.08.65 ✓
Rel [illegible] 3.05.40 ✓

Lick of [illegible]

BOOK A-243

Names and Duties of Assistants.

E. H. Giers Chainman

D. A. Brotherton "

Wm. H. Trone Rodman or Flagman

H. H. Atkinson " " "

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BOOK A-243

INDEX DIAGRAM.

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Preliminary Oaths of Assistants.

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

_____

_____

Resurvey of the W bdy. of T 14 N R 5 E

Chains	
	Survey commenced July 28, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment: for further description of which, and testing of adjustments reference is made to the field notes of the Subdivision of this Tp. herewith inclosed.—
	Preliminary to commencing the subdivision of this township I run north on a blank line on W. bdy of sec. 31. at 40,00 chs I find remnants of the 1/4 sec. cor. nearly obliterated and at 80,00 chs. a diligent search was made for the sec. cor. but no trace of it could be found.— I therefor continue my line north but find no more corners on the whole W. bdy which can be identified as such hence I resurvey the said W. boundary as follows.—
	July 28: At 2h 40m p m, ? mt I set off 41° 54' on the lat. arc, 18° 43' N. on the decl arc and determine a true meridian with the solar at the established S. E. cor. of Tp 14 N R 4 E. as hereinbefore described
	Thence I run
	North bet secs. 31 and 36
	On mountainous land
	Ascending to
8.20	Top of ridge bears N. 60° E and S 60° W
	Begin descent
24,30	Stream 3 lks wide in bottom of gulch 200 ft deep course N 60° E
	Ascending on rolling slope
26,40	Stream 1 lk. wide course S. E. in ravine
	Thence on S. W. slope
40,00	Set a quartzite stone 25 x 9 x 6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	At this point I found a small mound of stones but could discover no distinct marking for 1/4 sec cor.—

Resurvey of the W. bdy. of Tp 14 N. R. 5 E.

chains	
74,50	Top of spur W. 600 ft. above stream
	Begin gradual descent on N.W. slope
80,00	Set a quartzite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 25 and 36 marked with - 1 notch on S. and 5 notches on N. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	At this cor. a diligent search was made for the original cor. as described by the surveyor general but no trace of it could be found
	Land mountainous
	Soil gravely and rocky 3rd rate
	No timber. 1 dense brush in patches
	Mountainous land 8,00 chs. —
	North - bet secs. 25 and 30
	On mountainous land
	Descending on N.W. slope to -
36,50	Enter small aspen timber
40,00	Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, from which
	An aspen tree 5 ins. diam. bears S 89° W. 6 lks dist. marked 1/4 S B.T.
	An aspen tree 4 ins. diam. bears S. 20° 5' E 11 lks. dist. marked 1/4 S. B.T.
	A search was made for the original 1/4 sec. cor. as described by the surveyor general but no trace of it could be found
40,42	Stream 3 lks. wide course N.E in bottom of gulch 400 ft. below sec. cor.
	Begin gradual ascent on rolling surface
43,50	Leave timber, bears N. E and S.W.
48,11	Mountain road from Garden City to Logan Canon bears N E and S. W.
58,83	Another track of same road as above, running about parallel, along low ridge sloping N E
	Descending to

Resurvey of the W. bdy of Tp 14 N R 5 E

chains	
74,70	Bottom of gulch 150 ft. deep draining N.E.
	Thence on broken E slope ascending gradually
80,00	Set a quartzite stone 18 x 11 x 7 ins. 12 ins. in the ground for cor. of secs. 24 and 25 marked with 2 notches on S and 4 notches on N edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	A diligent search was made here, for the original sec. cor. as described by the surveyor general but no trace of it could be found. —
	Land mountainous.
	Soil gravely and rocky 3rd rate
	Timber aspen of small size in patches
	Mountainous land 80,00 chs. —
	July 28, 1896

July 29: At 7h 10m a.m., 2 m.f. I set off 41°56' on the lat. arc 18°35' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 24 and 25

Thence I run

North bet secs. 19 and 24

On mountainous land

Ascending on rolling, broken surface

28,00	Top of spur E 250 ft. above cor.
	Begin descent on steep N. slope
37,50	Enter small pine timber
40,00	Set a limestone 18 x 11 x 5 ins. 12 ins in the ground for ¼ sec cor. marked ¼ on W. face from which
	A pine tree 7 ins. diam. bears. N 86°50' E 15 lks. dist. marked ¼ S.B.T.
	No other trees within limits: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Search was made for the original ¼ sec cor. as described by the surveyor general but no trace of it could be found. —

Resurvey of the W. bdy. of Tp. 14 N. R. 5 E. —

chains	
42,70	Wood road in bottom of narrow canon 320 ft. deep draining nearly east.
	Begin ascent on steep rocky slope
57,20	Top of sharp rocky spur E. 230 ft. high.
	Begin steep descent
58.45	Bottom narrow canon 220 ft. below spur course S 80° E
	Begin steep rocky ascent
66,55	Top of canon 270 ft. above bottom; enter rolling surface, and begin gradual descent
77,40	Bottom of gulch 80 ft. deep course S.W.
	Ascending W
80,00	Set a limestone 17 x 9 x 6 ins. 12 ins in the ground for cor. of secs. 13 and 24 marked with 3 notches on N. and S edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	Search was made for the original sec. cor. as described by the surveyor general, but no trace of it could be found. —
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	Timber pine and mahogany of small size scattering
	Mountainous land 80,00 chs. —

	North bet secs. 13 and 18
	On mountainous land
	Ascending gradually on broken E slope
10,00	Top of spur E —
	Begin descent
17,00	Bottom of gulch 100 ft. deep drains N 65° E
28,75	Top of spur E 90 ft. high
38,50	Bottom of gulch 150 ft. deep drains S E
	Begin ascent
40,00	Set a limestone 18 x 8 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —

Resurvey of the W. bdy of Tp 14 S R 5 E

Chains	
	Search was made for the original 1/4 sec. cor. as described by the surveyor general but no trace of it could be found
57,40	Bottom of gulch 90 ft deep course S E.
80,00	Set a limestone 18 x 8 x 7 ins. 12 ins. in the ground for cor. of secs. 12 and 13 marked with 4 notches on S. and 2 notches on N. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	A diligent search was made for the original cor. as described by the surveyor general but no trace of it could be found. —
	Land mountainous
	Soil gravely and rocky 3rd rate
	no timber, dense brush in patches
	Mountainous land 80,00 chs. —
	North bet secs. 7 and 12
	On mountainous land
	Ascending on broken E. slope
2,00	Top of spur E
	Begin descent
6,90	Bottom of gulch 60 ft. deep course E
	Ascending
38,00	Top of spur N E 400 ft. high
	Begin broken descent
40,00	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Search was made for the 1/4 sec cor. as described by the surveyor general but no trace of it could be found. —
48,20	Bottom of gulch 150 ft. deep course N 65° E
	Ascending to
53,50	Top of spur E. 90 ft. above gulch
	Descending
64,15	Bottom of gulch 160 ft. deep course E

Resurvey of the W. bdy of Tp 14 N R 6

Chains	Ascending
7,315	Top of shark spur E 190 ft. above gulch
	Begin descent on steep slope
8,000	Set a limestone 18 x 9 x 7 ins. 12 ins in the ground for cor. of secs. 1 and 12 marked with 5 notches on S. and 1 notch on N. edges: raised a mound of stones 2 ft base 1½ ft. high W. of cor.
	Pits impracticable
	Search was made for the original sec. cor. as described by the surveyor general but no trace of it could be found
	Land Mountainous
	Soil gravely and rocky 3rd rate
	Timber, pine of small size in patches
	Mountainous land 80,00 chs.
	July 29: The weather being cloudy during the noon hour I could obtain no observation on the sun on the meridian
	North bet secs. 1 and 6
	On mountainous land
	Descending, in growth of small pines
5,70	Bottom of Canon 300 ft. deep course E
	Begin ascent: leaving timber
9,00	Top of spur S. E. 80 ft. high
	Descending
16,30	Bottom of gulch course S.E
	Begin steep ascent
34,30	Top of spur 370 ft. above canon, runs S.E
	Begin gradual ascent on E. slope
40,00	Set a limestone 18 x 8 x 5 ins. 12 ins in the ground for ¼ sec. cor. marked ¼ on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Search was made for the ¼ sec. cor. as described by the surveyor general but it could not be found
44,00	Begin descent on N. E. slope
67,70	Bottom of gulch 400 ft. deep course E

Resurvey of the W. bdy of Tp 14 N R 5 E

chains 80,00	ascending to set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of Tps 14 and 15 N. R. 4 E marked with 6 notches on N. S and W. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor - Pits impracticable A diligent search was made for the original cor. of Tps 14 and 15 N RS 4 and 5 E as described by the surveyor general but it could not be found and identified though a small mound of stones without any markings was found bearing S. 15° W. 32 lks. dist. — Land mountainous soil gravely and rocky 3rd rate no timber Mountainous land 80,00 chs. — July 29, 1896

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PAGE

Subdivision of T14N R5E

Chains	
	Survey commenced July 29, 1896 and executed with a W & L E Gurley light mountain transit with arc attachment — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs. —
	The instrument was examined tested on the true meridian at Salt Lake found correct and was approved by the surveyor general for use April 24, 1896. —
	Having tested the adjustments of the instrument July 24 and 26, on a true meridian determined by observation on Polaris at the standard 1/4 sec cor. on S. bdy. of sec, 33 T13N R5E in connection with the survey of exterior and subdivision lines of said Tp., reference to which is hereby made, and found them correct; and being confident they still do remain, I consider it unnecessary to repeat the test at this time. —
	July 29: At the cor of secs 5-6-31 and 32 on S. bdy. of T14N R5E latitude 41°54' N. longitude 111°25' W. at 4h 31m p.m. 2nd I set off 41°54' on the lat. arc 18°28'30" N. on the decl. arc, and determine a true meridian with the solar. —
	The mean mag. decl. as reduced by the table page 100 is 16°56' E. —
	From the cor. already described I run N 0°1' W bet. secs. 31 and 32
	On mountainous slope,
	Descending gradually N. E. slope
10,00	Begin descent on steep N slope
28,50	Intersecting ditch 3 ft wide course S 70° E
30,10	Stream 4 ft wide course E in bottom of of gulch 840 ft. below sec. cor.
30,70	Canon road course E and W.
	Begin ascent on steep slope
40,00	At a sandstone 17 x 9 x 7 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable

chains	
47,80	Top of slope and spurs S.E. 400 ft. above gulch
	Thence on rolling N. slope descending gradually
77,85	Enter small aspen timber and dense brush.
80,00	Set a quartzite stone 18 x 10 x 9 ins. 12 ins. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges; from which
	An aspen tree 6 ins. diam. bears N 57° 10' W. 16 lks. dist. marked T. 14 N. R. 5 E. S. 30 B.T.
	An aspen tree 5 ins. diam. bears S 60° W 11. lks. dist. marked T 14 N R. 5 E S. 31 B.T.
	An aspen tree 6 ins. diam. bears S 58° 30' E 13 lks. dist. marked T 14 N R 5 E S. 32 B.T.
	An aspen tree 4 ins. diam. bears N. 20° 30' E. 22 lks. dist. marked T. 14 N. R. 5 E. S. 29 B.T.
	Land mountainous very broken
	Soil gravelly wash and bowlders 3rd rate
	Timber aspen of small size in patches
	Mountainous land 80,00 chs
	East on a random line bet. secs. 29 and 32
40,10	Falls 19 lks. S. of the 1/4 sec. cor. which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run
	S 89° 44' W. on a true line bet. W. 1/2 of sec 29 and 32
	On mountainous land
	Ascending on rolling surface
30,00	Bottom of ravine bears N E
35,50	Enter brush and aspen timber bears N. and S.
40,10	The cor. of secs. 29-30-31 and 32
	This cor. stands 5.50 ft. above the 1/4 sec. cor.
	Land mountainous
	Soil gravelly wash 3rd rate
	Timber aspen of small size; brush undergrowth
	Mountainous land 40,10 chs. —
	West on a random line bet secs. 30 and 31.
40,00	Set temp 1/4 sec. cor.

Subdivision of T14N R5E.

chains	
77,16	Intersect W. bdy. of Tp. at 18,90 chs S. of the cor. of secs. 25 and 36
	Set a quartzite stone 18×8×5 ins. 12 ins. in the ground for closing cor. of secs. 30 and 31 marked C.C on E with 5 grooves on N and 1 groove on S faces, raised a mound of stones 2 ft. base 1½ ft. high E. of cor. —
	Pits inpracticable. —
	Thence I run
	East on a true line bet. secs. 30 and 31
	On mountainous land
	Ascending gradually to
6,00	Top of ridge trees scanty N. and S.
	Begin steep descent
37,16	Set a limestone 18×10×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits inpracticable.
44,72	Wood road in bottom of saddle at head of two gulches draining N. and S.; 600 ft. below ridge
	Begin ascent
69,85	Top of ridge trees scanty stunted S.; 250 ft. above saddle
	Descending to
75,95	Enter aspen timber and much brush N. and S.
77,16	The cor. of secs. 29-30-31 and 32
	Land mountainous
	Soil gravelly and rocky 3rd rate
	Timber, aspen of small size in patches
	Mountainous land 77,16 chs. —
	July 29, 1896

July 30: at 7h 26m a.m, I set off 41°55' on the lat. arc 18°19'30" N. and the decl arc and determine a true meridian with the solar at the cor. of secs 29-30-31 and 32

Thence I run

N 0°1' W bet. secs. 29 and 30

On mountainous land

chains	
	On broken slope in dense brush
2,75	Leave brush
19,00	Top of ridge sloping N 30° E to gulch
	Begin steep descent
24,40	Enter dense brush
34,00	Leave " "
39,00	Enter dense brush
41,00	Set a limestone 18 x 10 x 9 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. —
	Pits impracticable. —
42,00	Leave dense brush
43,71	Stream 3 lks. wide flows E. in bottom of narrow gulch 450 ft below top of ridge
	Begin ascent
73,00	Top of slope bears N. E. and S. W.: thence on nearly level top of ridge 400 ft above stream
80,00	Set a limestone 18 x 11 x 10 ins. 12 ins in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 3 notches on E edges: raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. —
	Pits impracticable. —
	Geo. L Langford's cabin bears S 36° 29' W 42,60 chs
	Land mountainous
	Soil gravelly wash 3rd rate
	No timber: dense brush in patches
	Mountainous land 80,00 chs. —

	N 89° 44' E on a random line bet. secs. 20 and 29
40,15	Falls 5 lks. S of the 1/4 sec. cor. which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I proceed
	S. 89° 40' W. on a true line bet. W. half of secs. 20 and 29
	On mountainous land
	Ascending broken slope
36,00	Top of slope bears N. E. and S. W.

Subdivision of T. 14 N. R. 5 E.

chains	
	460 ft above 1/4 sec. cor.: thence on level bench of ridge to
40,15	The cor. of secs. 19-20-29 and 30
	Lands mountainous
	Soil gravely wash 3rd rate
	No timber
	Mountainous land 40,15 chs. —
	West on a random line bet. secs. 19 and 30
4,00	Set limst. 1/4 sec. cor.
77,60	Intersect Ck. bdry. of Tp. at 18,50 chs S. of cor. of secs. 24 and 25
	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for closing cor. of secs. 19 and 30 marked C/C on E. with 4 groves on N. and 2 groves on S. faces: raised a mound of stones 2 ft base 1½ ft. high E of cor. —
	Pits impracticable. —
	Thence S. runs
	East on a true line bet. secs. 19 and 30
	On mountainous lands
	Ascending to
1,00	Top of spur N
	Begin descent
14,76	Road from Bear Lake to Logan Canon bears nearly N and S
17,10	Stream 3 lks wide in bottom of rocky gulch 70 ft. deep course N. 25° E.
	Ascending to
32,60	Top of spur N. 200 ft. high
	Begin descent on rocky slope
37,60	Set a quartzite stone 18 x 11 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
	Thence over broken surface
62,00	Wood road bears nearly N. and S.
63,70	Bottom of dead draining N. 20° E 400 ft. below spur
	Begin ascent
76,50	Top of slope bears N E and S W
77,60	The cor. of secs. 19-20-29 and 30

chains	
	Land mountainous very broken Soil gravely and rocky 3rd rate No timber. Mountainous land 77,60 chs. —
	N 0° 1' W. bet. secs 19 and 20 On mountainous land
2,50	Begin descent on N.W. slope
9,00	A small spring bears W. 11. chs drains N.;
23,37	Dry wash in bottom of gulch 200 ft. deep course E
23,82	Road from Bear Lake to Logan Cañon bears E. and W.
	Begin ascent on S W slope
40,00	Set a limestone 24 x 14 x 12 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
46,65	Mountain road bears N E and S.W.
56,00	Saddle at head of two gulches draining S and N. E.
	Begin descent
73,00	Bottom of narrow cañon 300 ft. deep course S. 75° E. —
73,50	Wood road following bottom of cañon
	Begin ascent on steep rocky slope
80,00	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for cor. of secs. 17-18-19 and 20 marked with 3 notches on S. and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable. - Land mountainous Soil gravely and rocky 3rd rate. No timber Mountainous land 80,00 chs. —
	N. 89° 40' E. on a random line bet. secs. 17 and 20
40,25	Falls 23 lks. N of the 1/4 sec. cor. which is a stone firmly set marked and witnessed as described by the surveyor general. Thence I run

Subdivision of T 14 N R 6 E

Chains	
	West on a true line bet W ½ of secs. 17 and 20
	On mountainous land
	Ascending
22.00	Spur S to gulch 200 ft. above ¼ sec. cor.
	Descending to
28.30	Bottom of ravine draining S
	Ascending on broken S slope to
40.25	The cor. of secs. 17-18-19 and 20
	This cor stands 380 ft above the ¼ sec. cor.
	Land mountainous
	Soil gravely and rocky 3rd rate
	No timber
	Mountainous land 40.25 chs. —
	July 30: The sky being overcast during the noon hour I was unable to observe the sun on the meridian
	West on a random line bet. secs. 18 and 19
40.00	Set temp. ¼ sec. cor.
77.86	Intersect W. bdy. of Tp. at 18.24 chs S. of cor. of secs. 13 and 24
	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of secs. 18 and 19 marked C.C. on E. with 3 grooves on N. and S. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. — Pits impracticable
	Thence I run
	East on a true line bet. secs. 18 and 19
	On mountainous land
	Descending on broken S. E. slope
37.86	Set a quartzite stone 18 x 7 x 6 ins. 12 ins in the ground for ¼ sec. cor. marked ¼ on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	This cor stands in bottom of open draw draining S. to canon
	Ascending gradually to
74.00	Top of rocky spur S 100 ft. high
	Descending rocky break to
77.86	The cor. of secs. 17-18-19 and 20

chains This cor. stands 550 ft. below the closing cor.
Land mountainous
Soil gravelly and rocky 3rd rate
No timber
Mountainous land 77.86 chs. —

N. 0° 1' W. on a random line bet. secs. 17 and 18
4.00 Set temp. 1/4 sec. cor.
82.44 Falls 3.59 chs. W. of the cor. of secs. 7-8-17 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general I destroy the markings on said cor. pertaining to secs. 17 and 18 making it the cor. of secs. 7 and 8 according to manual thence:—
Set a quartzite stone 18 x 10 x 8 ins. 12 ins. in the ground for closing cor. of secs. 17 and 18 marked C.C. on S. with 5 grooves on E. and 4 grooves on S. faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
Pits impracticable
Thence S. run
S. 0° 1' W. on a true line bet. secs. 17 and 18
On mountainous land
Descending gradually on plateau
22.00 Edge of plateau bears E. and W. begin steep descent
34.85 Stream 2 lks. wide flows E. in narrow gulch 250 ft. deep
Begin ascent on rocky slope
42.44 Set a quartzite stone 18 x 11 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
This cor. stands at top of steep ascent 160 ft. above stream: thence on gradual ascent on rolling surface and rocky ledges
62.45 Top of spur E.; begin descent
82.44 The cor. of secs. 17-18-19 and 20
This cor. stands 240 ft. below top of spur on rocky slope. —
Land mountainous
Soil gravelly and rocky 3rd and 4th rate

chains	No timber
	Mountainous land 82,44 chs. —
	From the cor. of secs. 7 and 8 as hereinbefore described I run
	West on a random line bet. secs. 7 and 18
4000	Set temp. 1/4 sec. cor.
81,75	Intersect W. bdy. of Tp. at 15.77 chs. S. of cor. of secs. 12 and 13
	Set a limestone 18 x 9 x 7 ins. 12 ins. in the ground for closing cor. of secs. 7 and 18 marked C.C. on E. with 2 groves on N. and 4 groves on S. faces: raised a mound of stones 2 ft. base 1½ ft. high E of cor. — Pits impracticable
	Thence I run
	East on a true line bet. secs 7 and 18
	On mountainous land
	Descending on broken slope
41,75	Set a quartzite stone 17 x 10 x 7 ins. 11 ins. in the ground for 1/4 sec cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
53,80	Bottom of open gulch 450 ft. below closing cor. course S. 20° E.
	Begin ascent on steep slope
73,50	Top of slope 250 ft. above gulch bears N. and S.
	Enter rolling plateau
78,16	The closing cor. of secs. 17 and 18
81,75	The cor. of secs. 7 and 8
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber. —
	Mountainous land 81,75 chs. —
	From the cor. of secs. 5-6-7 and 8 which is a stone firmly set marked and witnessed as described by the surveyor general I run
	West on a random line bet. secs. 6 and 7
4000	Set temp. 1/4 sec. cor.
82,90	Intersect W. bdy. of Tp. at 13,65 chs. S of cor. of secs. 1 and 12 —

chains	
	Set a limestone 18×10×6 ins. 12 ins. in the ground for closing cor. of secs. 6 and 7 marked C C on E with 5 grooves on S. and 1 groove on N. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable.—
	Thence I run
	East on a true line bet. secs. 6 and 7.
	On mountainous land
	Descending on broken S E slope
42,90	Set a limestone 18×11×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
	This cor. stands in the bottom of a narrow gulch 450 ft. below closing cor. — course N 25° E
	Ascending to
53,00	Top of spur. N. 200 ft. high
	Descending
64,90	Bottom of gulch 140 ft. deep course S. 20° W
	Ascending to
75,35	Top of rocky ridge bears N. and S 100 ft above gulch
	Begin descent on precipitous rocky slope
77,00	Bottom of break; descending thence gradually
82,90	The cor. of secs. 5-6-7 and 8
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	No timber
	Mountainous land 82,90 chs.—
	July 30, 1896

Retracements in T. 14 N R 5 E

chains	
	From the cor. of secs. 7-8-17 and 18 as hereinbefore described I run
	North on a retracement line bet. secs. 7 and 8
40,00	A diligent search was made for the 1/4 sec. cor. but no trace of it could be found
81,80	Falls 1.00 chs. W. of the cor. of secs. 5-6-7 and 8 as hereinbefore described.-

Retracement T 14 N R 6 E — Subdivision

chains	the falling of this line is therefor N 0°48' E
	North on a retracement line bet. secs. 5 and 6
4,00	Falls in the creek bottom in dense brush and subject to overflow and wash; a diligent search was made for the ¼ sec. cor. as described by the surveyor general but no trace of it could be found
51,60	Intersect N bdy. of Tp. 14-0 chs W. of the cor. of secs. 5-6-31 and 32 as hereinbefore described.
	The course of this line is therefor N 1°0' E
	July 30, 1896

General Description

The portion of this township covered by the present survey is all mountainous land, broken and sloping. — The soil is gravely and rocky and of no value for cultivation with the exception of very small isolated patches.

There are no timber of value within the township only a few scattering bunches of cedar, pine, and aspen of small stunted growth. —

There are no quarries nor mines within the township; and no water, excepting a few small springs.

There is one settled in sec. 30 his improvements consist of a log cabin and about 5 acres under cultivation. —

Andrew P. Hanson
U.S. Dep. Surveyor

Retracement T 14 N R 5 E — Subdivision

From the cor. of secs. 16-17-20 and 21 which is a stone firmly set marked and witnessed as described by the surveyor general. From

Retracement T 14 N R 6 E — Subdivision

Chains	
	North on a retracement line bet. secs. 16 and 17.
4000	A diligent search was made for the 1/4 sec. cor. as described by the surveyor general, but no trace of it could be found
8200	Falls 2.90 chs. W. of the cor. of secs. 8-9-16 and 17 which is a stone firmly set marked and witnessed as described by the surveyor general.—
	The course of this line is therefor N 2° 0' E. & distance 82.05 chs

Andrew P Hanson
U.S. Dep Surveyor

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and

narking the lines and corners described in the foregoing field notes of the survey of _____

_____

howing 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

hose parts or portions of the _____

_____

_____

_____ of the _____ base

nd _____ meridian, _____ of _____, which are represented

n the foregoing field notes as having been surveyed by him and under his direction; and that said survey as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the orner monuments established, according to the instructions furnished by the United States Surveyor eneral for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

ubscribed 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 ..... 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 Sept. 9, 1897

The foregoing field notes of the survey of The subdivisions of Township 14 North Range 5 East of the Salt Lake Base & Meridian

executed by Andrew P Hansen

under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W Lamoreaux
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.)

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BOOK A-243

K.J.B.

FIELD NOTES

OF THE SURVEY OF

South and West Boundaries

of

Township No 12 North Range No 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, U. S. Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895.

Survey commenced August 1st, 1896.

Survey completed August 3d, 1896.

(630—2,'09.) 6—151

~~H. S.~~ 6.06 [illegible]

" W. J. 6.06 [illegible] 12-13-19

[illegible] 4.15

Names and Duties of Assistants.

E. H. Geers Chainman

D. A. Brotherton "

Wm. H. Frame Axman or Flagman

H. H. Atkinson " " "

6—161

BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page..... .....

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Preliminary Oaths of Assistants.

We, ...

.....

.....

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

.....

.....

.....

.....

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

....., *Chainman.*

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

.....

.....

We, ...

.....

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

.....

.....

.....

.....

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

....., *Axeman.*

....., *Axeman.*

.....

.....

.....

South Boundary of T. 12 N. R. 5 E.

chains

Survey commenced August 1, 1896 and executed with a Wm L Gurley light mountain transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. —

The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896. —

At 9h 33m a.m., I met; at the standard 1/4 sec. cor. on S. bdy. of Sec. 33 T. 13 N. R. 5 E., set by me July 24, 1896 I set off 41° 49' N on the lat. arc 17° 48' N on the decl. arc and mark the true meridian determined by the solar, on the rock set by me on the last named date at the beginning of the survey of the 3rd Standard Parallel N. R 5 E 4,50 chn. N of this cor. and upon which a point in the true meridian determined by observation on Polaris was marked. -

By comparison I find the two meridians thus established to agree without material difference and therefor concludes the adjustments of the instrument are correct. —

August 1st; at the cor. of Tps 11 and 12 N. R. 5 and 6 E in latitude 41° 43' 30" N longitude 111° 19' W which is a stone firmly set marked and witnessed as described by the surveyor general; at 4h 45m p.m. I met — I set off 41° 43' 30" on the lat. arc 17° 48' 30" N on the decl. arc and determine a true meridian with the solar. -

The magnetic bearing of the true meridian is N 16° 50' W; the angle thus determined reduced by the table page 100 gives mean mag. decl. 16° 57' E

From the cor. already described I run

West bet secs. 1 and 36

On mountainous slope, ascending on N slope

6,50 Top of spur N; begin descent on steep broken N.W. slope

46,84 Otter creek 6 ft. wide course N 55° E in bottom of narrow gulch 460 ft. deep

48,00 Wood road course N 55° E and S 55° W.

Begin ascent on steep broken slope

South boundary of T12N R5E

chains	
48,34	Set a porphyry stone 18x7x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face & raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. —
68,90	Top of gulch and ridge, course N.E and S.W. 400 ft above creek. Begin descent
88,34	Set a porphyry stone 18x11x8 ins. 12 ins. in the ground for cor. of secs. 1-2-35 and 36 marked with 1 notch on E and 5 notches on W. edges.: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. — This cor. stands 200 ft. below top of ridge Land mountainous Soil gravely wash and bowlders 3d rate No timber. — Dense underbrush in patches Mountainous land 88,34 chs — August 1, 1896
	August 2: At 7h 24m a.m. 2nd I set off 41°43'30" N. on the lat. arc 17°34' N. on the decl. arc and determined a true meridian with the solar Thence I run West bet. secs. 2 and 35 On mountainous slope, descending
22,00	Bottom of gulch 200 ft. below cor. course N. Begin descent on rolling surface
30,00	Top of spur 50 ft. high runs N. Descending to
38,90	Dry wash in bottom of gulch 30 ft. deep course N.W. Ascending
40,00	Set a porphyry stone 17x8x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. — Pits impracticable
47,00	Top of spur N.E. 40 ft. high Begin descent
55,90	Dry wash in head of draw 30 ft. deep course N.E.; 5 chs N. of divide of water shed. Begin ascent to
58,73	Old wood road course N. 20° E and S 20° W.

chains	
65.00	Enter dense high brush and aspen brake bears N and S
77,50	Leave " " " " " " " " " "
78,00	Top of ridge 120 ft. above draw course N.E. and S.W.; descend
80,00	Set a quartzite stone 17×8×6 ins. 11 ins in the ground for cor. of secs. 2-3-34 and 35 marked with 2 notches on E and 4 notches on W. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. – Land mountainous, high, rolling; Soil gravely wash and bowlders 3d rate No timber. – Dense high brush and brake in patches Mountainous land 8000 chs. –
	West bet. secs. 3 and 34 On mountainous slope, descending
15,97	Bottom of gulch 120 ft. below cor. course N 30° E Ascending to
21,00	Top of spur 60 ft. high course N 30° E Descending to
25,77	Wood road course N 30° E and S 30° W in bottom of gulch 70 ft. below spur drains N 30° E. Enter dense high brush and brake running with gulch; and begin ascent. –
36,50	Leave brush bears N.E. and S.W.
40,00	Set a sandstone 18×7×6 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. – Pits impracticable. – This cor. stands on top of a ridge 160 ft. above gulch course N.E. and S.W. Begin descent on rolling slope
80,00	Set a sandstone 18×7×6 ins. 12 ins. in the ground for cor. of secs. 3-4-33 and 34 marked with 3 notches on E. and W. edges: raised a mound of stones 2 ft. base 1½ ft high W. of cor. – Pits impracticable This cor. stands on N. slope 230 ft. below the 1/4 sec. cor. Land mountainous. – Soil gravely and rocky 3d rate No timber. – Dense undergrowth of brush and brake in patches Mountainous land 8000 chs. –

Chains	
	West bet. secs. 4 and 33
	On mountainous slope, descending
3,52	Wood road course N. and S.; enter dense brush bears N. and
4,30	Bottom of gulch 40 ft. below cor. course N.
	Ascending to
26,00	Leave brush bears N. and S.
28,00	Top of ridge 200 ft above gulch course N and S
	Begin descent
40,00	Set a sandstone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. –
	Pits impracticable
50,30	Bottom of gulch 250 ft. deep course N
	Ascending to
76,70	Top of spur N 190 ft. high
	Descending to
80,00	Set a limestone 17 x 12 x 10 ins. 11 ins. in the ground for cor. of secs. 4-5-32 and 33 marked with 4 notches on E and 2 notches on W. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable. –
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber; dense brush in patches
	Mountainous land 80,00 chs. –
	August 2: The sky being overcast during the noon hour I was unable to observe the sun on the meridian. –

	West bet. secs. 5 and 32
	On mountainous slope; descending
1,00	Enter dense brush bears N. and S.
8,10	Bottom of gulch 90 ft below cor. course N E
	Begin ascent on broken rolling slope
9,50	Leave brush bears N. and S.
21,00	Enter brush bears N. and S.
22,00	Bottom of hollow 30 ft. deep course S 20° E
32,15	Leave brush bears N. and S.
39,20	Enter brush bears N. and S.
40,00	Set a sandstone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable

South. boundary of T. 12 N. R 5 E.

chains	
45,00	Leave brush bears N. and S.
49,85	Top of ridge 500 ft. above cor of sec. 4-5-32 and 33 course N. and S.
	Descending W
64,30	Bottom of ravine 300 ft. below top of ridge course N 30° W
	Ascending on steep slope
74,60	Top of spur N 25° W 200 ft. above ravine
	Descending W
80,00	Set a quartzite stone 18×10×5 ins. 12 ins. in the ground for cor. of sec. 5-6-31 and 32 marked with 5 notches on E. and 1 notch on W. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	This cor. stands on steep W. slope 100 ft. below top of spur
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber. - Dense brush in patches
	Mountainous land 80,00 chs. -
	West bet. secs. 6 and 31
	On mountainous slope; descending
4,50	Enter dense high brush, and aspen brake; bears N 6 and S. W.
31,04	Road from Blacksmith-Fork to Round Valley at foot of slope course N 25° E and S 25° W.
	Enter bottom of gulch draining N 25° E. 2,00 chs N of divide of watershed; 500 ft. below sec. cor.
33,00	Begin ascent
40,00	Set a sandstone 18×11×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. -
	Pits impracticable -
42,80	Leave brush and aspen brake; bears N. and S.
52,00	Enter " " " " " " " "
77,40	Leave " " " " " " " "
78,00	Top of ridge and divide of watershed 300 ft. above bottom of gulch course N. and S.
78,07	Set a sandstone 18×11×8 ins. 12 ins. in the ground for cor. of Tps. 11 and 12 N. Rs. 4 and 5 E marked T 12 N. on N.E., R 5 E on S.E., T 11 N on S.W. and R 4 E on N.W. faces with 6 notches on N. S. E. and W edges; raised a

West boundary of T. 12 N R 5 E

chains	
	mound of stones 2 ft. base 1½ ft. high S of cor.
	Pits impracticable.—
	Land mountainous
	Soil gravely wash and boulders 3d rate
	Timber; aspen of small size, mostly brake; dense high brush and thorn
	Mountainous land 78,07 chs.—
	From the cor. of Tps 11 and 12 N R s. 4 and 5 E as already described I run
	North bet. secs. 31 and 36
	On mountainous slope; descending
10,50	Enter dense brush and brake bears E and W
16,40	Bottom of ravine 100 ft. below cor. course S W.
	Begin ascent on S E slope
26,40	Leave brush and brake bears E and W
36,00	Enter dense brush and brake: course E and W. and ascend gradually on E slope
40,00	Set a sandstone 18×7×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable.—
43,50	Leave brush and brake course E and W.
48,00	Top of spur E. 200 ft. above gulch;
	Begin gradual descent on E, slope
50,50	Enter dense brush and brake bears E and W.
56,10	Head of gulch draining E 40 ft. deep
	Ascending gradually
59,75	Leave brush and brake bears E and W.
61,00	Top of spur E; thence on rolling slope
69,75	Enter dense brush and brake bears E and W.
78,00	Spur E; begin descent on N E slope
80,00	Set a sandstone 17×7×6 ins: 11 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: raised mound of stones 2 ft. base 1½ ft. high W of cor.
	Pits impracticable.—
	Land mountainous, broken slope
	Soil gravely wash 3d rate
	No timber.—
	Dense high brush and aspen brake
	Mountainous land 80,00 chs.—

West boundary of T 12 N R 5 E

chains	August 2, 1896
	August 3: I run
	North bet. secs. 25 and 30
	On mountainous slope.
	Descending; in dense brush and brake
16,70	Bottom of gulch 150 ft below cor. course S E
	Begin ascent on broken slope
41,00	Set a limestone 17 x 8 x 6 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	This cor. stands 200 ft above gulch at head of ascent.
	Thence along top of ridge and broken surface
75,00	Begin gradual descent
80,00	Set a quartzite stone 18 x 10 x 5 ins. 12 ins. in the ground for cor. of secs. 19-24-25 and 30 marked with 2 notches on S. and 4 notches on N. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable. –
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber. –
	Dense tall brush and brake the whole distance
	Mountainous land 80,00 chs.
	North bet. secs. 19 and 24
	On mountainous land
	Descending gradually on broken slope: in dense tall brush and brake
40,00	Set a quartzite stone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
56,60	Bottom of gulch draining E
	Ascending to
80,00	Set a quartzite stone 18 x 9 x 8 ins. 12 ins in the ground for cor. of secs. 13-18-19 and 24 marked with – 3 notches on N and S. edges:

chains raised a mound of stones 2 ft base 1½ ft. hi
W. of cor. - Pits impracticable
Land mountainous rolling and broken
Soil gravely wash and boulders 3d rate
No timber
Dense brush and brake the whole distance
Mountainous land 80,00 chs. —

North bet. secs. 13 and 18
On mountainous land
Ascending on brush and brake
5,00 Top of spur running E
Descending to
25,15 Bottom of gulch and dry wash course N. 60° E.
Ascending on rolling slope
40,00 Set a limestone 17 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W.
raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable
62,00 Top of spur 200 ft. high running N 70° E
Descending to
80,00 Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 7-12-13 and 18 mark with 4 notches on S and 2 notches on N. edge
raised a mound of stones 2 ft. base 1½ ft. hi
W. of cor. - Pits impracticable
Land mountainous
Soil gravely wash and boulders 3d rate
No timber
Dense tall brush and brake
Mountainous land 80,00 chs.
August 3: at this cor. I set off 17° 16' N. on the decl. arc and at 12h 6 m p m, 2 m T observed the sun on the meridian: the resulting lat. is 41° 47' N

North bet. secs. 7 and 12
On mountainous land.
Descending on rolling slope in dense brush
13,20 Bottom of gulch and dry wash course about N. 70° E.

West boundary of T. 12 N. R. 5 E.

chains	
	Ascending to
21,00	Top of spur 100 ft. high running N 60° E
	Descending into rolling slope
44,00	Set a quartzite stone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
54,00	Bottom of gulch and dry wash 400 ft. below spur across N. E.
	Ascending on broken slope E
80,00	Set a quartzite stone 18 x 11 x 6 ins. 12 ins. in the ground for cor. of secs. 1-6-7 and 12 marked with 6 notches on S and 1 notch on east edge: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. - Thicket stands on top of spur E.
	Land mountainous
	Soil gravelly loam and bordered 3d rate
	No timber
	Dense tall brush and brake 80,00 chs.
	Mountainous land 80,00 chs. —

	August 3. at 3h 30m p.m., l.m.t. I set off 41°48' in the lat. and 17°13' N. on the decl. arc and determined a line meridian with the solar at the cor. of secs. 1-6-7 and 12
	Thence I run
	North bet. secs. 1 and 6
	On mountainous land
	Ascending gradually on broken E slope
17,00	Bottom of ravine 130 ft. deep course E. -
	Ascending to
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
42,00	Top of spur E. 250 ft. high
	Descending to
75,00	Bottom of gulch 300 ft. deep course S 75° E
	Ascending on rolling slope to

West boundary of T. 12 N. R. 5 E.

Chains

86,78 Intersect Third Standard Parallel North at 4,15 chs. E. of Standard cor. of Tp. 13 N. Rs 4 and 5 E. 1 set a quartzite stone 18 x 9 + 6 ins. 12 ins. in the ground for closing cor. of Tp. 12 N. Rs. 4 and 5 E. marked C.C. 12 N. on S. 4 E. on W. and 5 E. on E. with 6 groves on S. E. and W. faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
Pits impracticable
Land Mountainous. —
Soil gravely and rocky 3d rate
No timber. —
Dense tall brush and brake
Mountainous land 86.78 chs

August 3, 1896

Boundaries of T. 12 N R. 5 E

Latitudes Departures and closing errors.

Line designated	True bearing	Distance	Latitude N.	Latitude S.	Departure E.	Departure W.
		chs.	chs.	chs.	chs.	chs.
3rd St-Parallel North	West	475.85				475.85
West boundary	South	486.78		486.78		
South boundary	East	486,41			486,41	
East boundary	N. 0°30' W.	240 00	240,00			2.10
" "	N 4°28' W.	80,25	80,00			6.25
" "	North	163,94	163.94			
Convergency						.65
			483.94	486.78	486.41	484.85
Totals				483.94	484,85	
Errors in lat. and dep.				2,84	1.56	

General Description

The portion of this township which is unsurveyed is all rough mountainous land and suitable for pasture lands only. —
It is watered by a few small streams; and has no timber of sufficient size to be called by that name, but half the area or more is covered with a dense growth of aspen brake and tall brush, which is in places at

West boundary of T 12 N R 5 E

impenetrable. —

The township should be subdivided

Andrew P Hanson

August 3d 1896 — U.S. Deputy Surveyor

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PAGE

List of Names.

A list of the names of the individuals employed by Andrew P. Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Exterior boundaries of Tp. 9 N. R. 7 E. — Tp. 10 N. Rs 7 and 8 E. — Tp. 11 N. Rs 7 and 8 E. — Tp. 12 N. R. 8 E. — Tp. 13 N. R. 8 E. — Tp. 14 N. R. 8 E. — Tp. 15 N. R. 8 E. — Tp. 13 N. R. 5 E. — Tp. 15 N. R. 5 E. — Tp. 14 N. R. 5 E. Tp. 13 N. R. 4 E. and Tp. 12 N. R. 5 E.

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

E. H. Piers Chainman
D. A. Brotherton "
Wm H. Tyrone Axeman or Flagman
H. H. Atkinson " " "

Final Oath of Assistants:

We hereby certify that we assisted Andrew P. Hansen, U. S. Deputy Surveyor, in surveying all those parts or portions of the Exterior boundaries of T. 9 N. R. 7 E. — Tp. 10 N. Rs 7 and 8 E. — Tp. 11 N. Rs 7 and 8 E. — Tp. 12 N. R. 8 E. — Tp. 13 N. R. 8 E. — Tp. 14 N. R. 8 E. — Tp. 15 N. R. 8 E. — Tp. 13 N. R. 5 E. — Tp. 15 N. R. 5 E. — Tp. 14 N. R. 5 E. — Tp. 13 N. R. 4 E. and Tp. 12 N. R. 5 E. Salt Lake Base and Meridian, in the State of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Utah.

E. H. Piers Chainman
D. A. Brotherton "
Wm H. Tyrone Axeman Flagman
H. H. Atkinson " "

Subscribed and sworn to before me this 1st day of August, 1896.

SEAL

Henry W. Atkinson
Notary Public

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....

..... Meridian, in the ....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual printed instructions, the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah Sept. 9, 1897

The foregoing field notes of the survey of the South & West Boundaries of Township 12 North Range 5 East of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

..... executed by Andrew P. Hanson under his Contract No. 204, dated December 30th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

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(4—679.)

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K.J.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 12 North Range No 5 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, U. S. Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895.

Survey commenced August 4, 1896.

Survey completed August 13, 1896.

(12503—2,000.)

$ 55,77.56 ✓
Ls 46.12 ✓
Clos 18.20 ✓
Retracement 1.42.55 ✓

56-43 78

Names and Duties of Assistants.

E H Geiss Chainmen

D A Brotherton "

Wm H Trone Axman or Flagmen

W H Atkinson " " "

BOOK A-243

INDEX DIAGRAM.

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

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

Meanders Page .....

6—151

Preliminary Oaths of Assistants.

WE, _____

_____

_____

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

_____

_____

_____

_____,

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

_____, *Chainman.*

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

_____

_____

WE, _____

_____

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

_____

_____

_____

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

_____, *Axeman.*

_____, *Axeman.*

_____

_____

Subdivision of T. 12 N. R 5 E

chains	Survey commenced August 4, 1896 and executed with a W. & L E Gurley light mountain transit with solar attachment: The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.— The instrument was examined; tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896.— Having tested the adjustments of the instrument and the accuracy of the solar apparatus on a true meridian established by observation on Polaris at the commencement of survey of exterior boundaries of this Tp. on August 1, 1896 reference to which is hereby made; I consider it unnecessary to repeat the test at this time.—
	August 4: at 7h 24m. a m, 2m 2 I set off 41°43'30" on the lat. arc 17°2' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 1-2-35 and 36 on S-bdy of T. 12 N. R. 5 E. as set by me August 1' 1896
	Thence I run on sectional guide meridian.
	North bet. secs. 35 and 36
	On mountainous rolling surface
	Descending gradually
40,00	Set a sandstone 17×9×6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable.—
45,00	Spur running W.
	Descending to
59,60	Bottom of gulch 120 ft deep course N 60° W.
	Ascending to
64,00	Top of spur W. 100 ft. high
	Descending
68,70	Bottom of ravine 90 ft deep course W.
	Ascending gradually on steep broken slope W.
80,00	Set a quartzite stone 17×10×8 ins. 11 ins. in the ground for cor. of secs. 25-26-35 and 36

chains	marked with 1 notch on S and E. edges; raised a mound of stones 2 ft. base 1½ ft high W. of cor. — Pits impracticable Land, mountainous Soil gravelly wash and bowlders. 3rd rate No timber; oak brush in patches Mountainous land 80.00 chs
	East on a random line bet. secs. 25 and 36
40.00	Set temp. 1/4 sec. cor.
87.76	Intersect E. bdy. of Tp 12 chs N. of cor. of secs. 25-30-31 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general.- Thence I run N. 89° 55' W. on a true line bet secs. 25 and 36 On mountainous surface over rolling broken plateau ascending gradually
42.00	In head of draw, draining N. E.
	Thence on S. E. slope
47.76	set a quartzite stone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft high N. of cor. — Pits impracticable. —
61.50	Top of ridge 200 ft above plateau course N. and S. Begin descent
81.60	Bottom of ravine 50 ft. deep course N. 15° W. Ascending to
86.00	Top of ridge bears N. and S. Descending
87.76	The cor. of secs. 25-26-35 and 36 This cor. stands 60 ft. below top of ridge on steep W. slope. — Land mountainous Soil gravelly wash and bowlders. 3rd rate No timber; oak brush in patches Mountainous land 87.76 chs. —
	North bet. secs. 25 and 26 On mountainous surface

Chains	
	Descending on broken slope
6,30	Bottom of ravine 110 ft. deep course N 80° W.
	Begin ascent
10,75	Top of spur W.
	Descending
18,70	Bottom of ravine 120 ft. deep course N 70° W.
	Ascending to
26,00	Top of ridge bears nearly E and W. 160 ft above ravine. –
	Descending
34,50	Bottom of gulch 170 ft. deep course N 60° W.
	Ascending
40,00	Set a quartzite stone 18 x 12 x 7 ins. 12 ins. in the ground for 1/4 sec cor. marked 40 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
52,00	Top of gulch, and ridge 230 ft. high course NW and S.E.
55,00	Begin descent on N. slope in dense brush
67,80	Leave brush
71,00	Bottom of gulch 300 ft. below ridge, course N.W.
	Ascending on steep slope to
80,00	Set a limestone 17 x 8 x 6 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: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Land Mountainous very broken
	Soil gravelly wash and boulders 3d rate
	No timber: oak and thorn brush in patches
	Mountainous land 80,00 chs. –
	August 4:– The sky being overcast during the noon hour I was unable to observe the sun on the meridian. –
	S 89° 55' E on a random line bet. secs. 24 and 25 –
40,00	Set temp. 1/4 sec cor.
87,12	Intersect E. bdy. of Tp. 16 N. at cor. of secs. 19-24-25 and 30 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run

chains	
	N. 89° 48' W. on a true line bet. secs. 24 and 25
	On mountainous surface
	Ascending in dense brush
7,15	Top of slope and low ridge, bears N. 25° W and S. 25° E. – Level brush bears N and S.
	Descending gradually over rolling plateau
47,12	Set a porphyry stone 17 x 8 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable
49,50	Begin ascent
60,00	Top of spur S 100 ft. high
	Descending
65,40	Bottom of gulch 70 ft deep draining S
	Ascending to
84,46	Top of Ridge 250 ft above gulch course N.W. and S.E.
	Descending
87,12	The cor. of secs. 23-24-25 and 26
	Land mountainous rolling
	soil gravely wash and boulders
	No timber: dense brush in patches
	Mountainous land 87,12 chs. —

	North bet. secs. 23 and 24
	On mountainous land, steep slopes
	Ascending to
5,35	Top of ridge 90 ft. above cor. course N.W and S.E.
	Begin descent on broken surface
27,60	Head of ravine 200 ft deep course N. 60° W.
	Ascending to
40,00	Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Thence on broken W. slope
70,00	Begin gradual descent
80,00	Set a quartzite stone 17 x 8 x 6 ins. 11 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: raised a mound of stones 2 ft base 1½ ft. high W. of

chains	
	cor. — Pits impracticable Land mountainous, very broken Soil gravely wash and boulders 3d rate No timber: oak brush in patches Mountainous land 80,00 chs. —
	S 89° 48' E. on a random line bet. secs. 13 and 24
40,00	Set temp. 1/4 sec. cor.
86,26	Intersect E. bdy of Tp. at cor. of secs. 13-18-19 and 24 which is a stone firmly set, marked and witnessed as described by the surveyor general. — Thence I run N 89° 48' W on a true line bet. secs. 13 and 24 On mountainous land Ascending on rolling broken plateau
46,26	Set a quartzite stone 18 x 8 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a ~~mound~~ of stones 2 ft. base 1½ ft high N. of cor. — Pits impracticable Descending to
63,50	Bottom of ravine 170 ft. deep course N. 10° E Begin ascent
81,00	Top of ridge from the S., sloping N to canon. 240 ft. above ravine Descend to
86,26	The cor. of secs. 13-14-23 and 24 Land mountainous, broken and rolling Soil gravely wash and rocky 3d rate No timber: oak brush in pockets. — Mountainous land 86.26 chs. —
	North bet. secs. 13 and 14 Descending to
14,00	Edge of rocky precipitous break bears N 70° E and S 70° W.
31,42	Stream 12 lks. wide swift current course N. 75° E. in bottom of narrow canon 860 ft below cor. Begin ascent on steep rocky slope
40,00	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W.

chains	
	face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
44.35	Top of canon and ridge bears N 70° E and S. 70° W. 460 ft above stream
	Descending gradually along spur to
80.00	Set a quartzite stone 17 x 8 x 6 ins. 11 ins. in the ground for cor. of secs 11-12-13 and 14 marked with 4 notches on S. and 1 notch on E. edges. raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Land Mountainous very broken
	Soil gravelly, and rocky in canon 3d and 4th rate
	No timber: brush and scattering stunted mahogany in canon.
	Mountainous land 80.00 chs. –
	August 4, 1896

	August 5: I run
	S 89° 48' E on a random line bet. secs. 12 and 13
4.00	Set temp. 1/4 sec. cor.
79.94	Intersect E. bdy. of Tp. 14 lks. S of cor. of secs. 7-12 13 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	N 89° 54' W. on a true line bet. secs. 12 and 13
	On mountainous land
	Descending on broken N. slope
20.30	Bottom of gulch 140 ft. deep course N. E
	Begin ascent on broken slope
39.94	Set a quartzite stone 17 x 9 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft base 1½ ft. high W of cor. – Pits impracticable
47.00	Top of spur running N. 300 ft. high
	Descending to
75.70	Bottom of gulch 260 ft. deep course N. W.
	Ascending to
79.94	The cor. of secs. 11-12-13 and 14
	Land mountainous, broken and rolling
	Soil gravelly wash and boulders 3d rate

Subdivision of T. 12 N. R 5 E.

Chains	
	No timber. -
	Mountainous land 79,94 chs
	North bet. secs. 11 and 12
	On mountainous land
	Descending
9,40	Bottom of gulch 225 ft below cor. course N 50° W.
	Ascending to
21,00	Top of spur N. 75° W. 200 ft above bottom of gulch
	Descending
37,88	Bottom of gulch 300 ft. below spur, course N 65° W.
	Ascending
40,00	Set a quartzite stone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
40,70	Top of slope bears N.W.: enter broken bench sloping west. -
59,50	Begin descent on steep N.W. slope
68,40	Bottom of gulch 260 ft. deep course W.
	Ascending to
76,00	Top of spur N. 75° W. 165 ft. high
	Begin descent
80,00	Set a limestone 18 x 8 x 6 ins. 12 ins in the ground for cor. of secs. 1 and 12 marked with 5 notches on S and 1 notch N. edges.: raised a mound of stones 2 ft. base 1½ ft high W. of cor. —
	Pits impracticable. -
	Land mountainous very broken
	Soil gravely and rocky 3d rate
	No timber. -
	Mountainous land 80,00 chs. —
	August 5; at this cor. I set off 16° 41' 30" N. on the deel arc and at 0h 6m pm b m t. observe the sun on the meridian, the resulting lat. is 41° 48'
	S 89° 54' E on a random line bet. secs. 1 and 12
40,00	Set temp 1/4 sec. cor.
80,21	Intersect E. bdy. of Tp. 21 lks N. of cor. of secs. 1-6-7 and 12 which is a stone firmly set marked

chains	
	and witnessed as described by the surveyor general. —
	Thence I run
	N 89° 45' W. on a true line bet. secs. 1 and 12
	On mountainous land
	Descending to
1,40	Bottom of gulch draining N. 25° W.
	Begin ascent
18,00	Top of spur N. 300 ft. above gulch
	Descending over broken slope
40,21	Set a limestone 17x10x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
42,50	Bottom of gulch 280 ft. deep course N. 20° E
	Ascending steep slope to
47,60	Top of spur N. 150 ft above gulch
	Descending to
60,00	Head of gulch draining N. 200 ft. below spur
	Ascending
67,70	Top of ridge bears nearly N. and S. 160 ft above gulch —
	Descending broken slope to
80,21	The cor. of secs. 1 and 12
	Land mountainous, rolling, broken
	Soil gravely wash and boulders 3d rate
	No timber
	Mountainous land 80,21 chs. —
	North bet. secs. 1 and 2
	On mountainous land
	Descending
7,20	Bottom of ravine 120 ft below cor. course N. 75° W.
	Begin ascent
18,25	Top of spur W. 200 ft. above ravine
	Descending
40,00	Set a limestone 18x9x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
57,79	Road from Round Valley to Bear Lake course

Subdivision of T. 12 N. R. 5 E.

Chains	
	N. 50° E and S 50° W. 60 lks. W. of top of divide, in saddle.
52,00	Top of ridge in low pass or saddle, course N 15° W and S 20° E. —
	Begin ascent on E slope
74,00	Top of spur E. 190 ft. above pass.
	Thence on broken east slope
83,55	Intersect Third Standard Parallel North and N. bdy of Tp at 24 lks. E. of St. Cor of secs. 35 and 36 which is a limestone 36 x 16 x 6 ins. lying on top of ground with a few rock around it and marked with 1-5 and 6 notches on different edges. - No other marks discernible set a limestone 25 x 10 x 6 ins. 18 ins. in the ground for closing cor. of secs. 1 and 2 marked C.C. on S. with 1 grove on E and 5 groves on W. faces. : raised a mound of stones 2 ft. base 1½ ft. high S. of cor.
	Pits impracticable. -
	Land mountainous
	Soil gravelly and rocky 3d rate
	No timber
	Mountainous land 83.55 chs. —
	At the cor. of secs. 1 and 12 at 3 48 m p.m. l.m.t. I set off 41° 48' on the lat. arc. 16° 39' N on the decl. arc and determined a true meridian with the solar
	Thence I run
	West on a random line bet. secs. 2 and 11
41.26	The established ¼ sec. cor. bet secs. 2 and 11 bears North 5,80 chs. being a stone firmly set marked and witnessed as described by the surveyor general. -
	Thence I run
	East on a true line bet. E. half of secs. 2 and 11
	On mountainous land
	Ascending on steep broken slope
7,00	Top of ridge 120 ft above cor. bears N. and S.
	Descending gradually to

Subdivision of T. 12 N. R 5 E

Chains	
32,00	Bottom of saddle at head of ravines draining S.W. and N.W.
	Begin ascent
41,26	Intersect N. and S. line 5,80 chs. N. of cor. of sees. 1 and 12.
	Set a limestone 18×13×6 ins. 12 ins. in the ground for closing cor. of sees. 2 and 11 marked C.C. on W. with 5 grooves on S. and W. faces; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inaccessible
	This cor stands 300 ft above 1/4 sec. cor.
	Land Mountainous
	Soil gravely wash and boulders 3d rate
	No timber
	Mountainous land 41,26 chs. —
	August 5, 1896
	August 6: At 7 30 am a.m., b.m.t. I set off 41° 43' 30" on the lat. arc 16° 29' 30" N. on the decl. arc and determine a true meridian with the solar at the cor. of sees. 2-3-34 and 35 on S. bdy of Tp.
	Thence I run
	N. 0° 1' W. bet sees. 34 and 35 —
	On mountainous land
	Descending gradually on broken surface
18,10	Ravine 50 ft. deep course N.E.
23,00	Point of spur N.E.
28,15	Bottom of gulch 90 ft. deep course N.E.
	Ascending S
40,00	Set a Quartzite stone 18×8×5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inaccessible
44,00	Top of ridge 250 ft. high course N.E. and S.W.
	Begin descent on on broken N.W. slope
80,00	Set a quartzite stone 18×9×6 ins. 12 ins in the ground for cor. of sees. 26-27-34 and 35 marked with 1 notch on S. and 2 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inaccessible.

Subdivision of T. 12 N. R. 5 E

chains	
	Land mountainous Soil gravely wash and bowlders 3d rate No timber: dense brush in patches Mountainous land 8000 chs. —
	East on a random line bet. secs. 26 and 35
40.00	Set temp. 1/4 sec. cor.
79.76	Intersect N. and S. line 24 lks. S. of cor. of secs. 25-26-35 and 36
	Thence I run
	S 89° 50' W. on a true line bet. secs. 26 and 35
	On mountainous land
	Descending on steep W. slope
9.05	Bottom of gulch 170 ft below cor. course N.
	Begin ascent
13.70	Spur 80 ft high runs N 20° E
	Descending W
28.00	Bottom of gulch 70 ft deep course N 70° E
	Begin ascent on rolling slope
30.15	Old road bears nearly N and S
39.88	Set a sandstone 18 x 11 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
49.60	Top of spur N 150 ft. above gulch
	Descend
59.60	Enter dense high brush bears N and S
61.90	Bottom of draw 120 ft. deep course N. 25° E.
	ascending W
69.50	Leave brush bears N. and S.
69.70	Top of spur N. 20° E. 170 ft above draw
	Descending W
79.76	The cor. of secs. 26-27-34 and 35
	Land mountainous Soil gravely wash and bowlders 3d rate No timber: aspen brake and brush in patches Mountainous land 79.76 chs. —
	N 0° 1' W. bet. secs. 26 and 27 On mountainous land Descending on N. W. slope

Feet	
7,72	Bottom of gulch 120 ft below cor. course N 6
	ascending over rolling surface
16,04	Old road bears E and W. in draw draining E
27,70	Top of ridge bears E and W. 270 ft above bottom of
	gulch. —
	Thence on broken E slope descending gradually
39,60	Enter dense high brush bears N W and S E
41,00	Set a quartzite stone 16 x 9 x 7 ins. 10 ins. in the
	ground for 1/4 sec. cor. marked 1/4 on W. face
	raised a mound of stones 2 ft. base 1½ ft
	high W. of cor. — Pits inaccessible
	This cor. stands at the head of a gulch draining
	E. and N.
43,50	Leave brush
46,00	Top of spur E. — A mud spring bears E. 4 chs.
	Descending
64,80	Bottom of gulch 280 ft deep course N W.
	Begin ascent — on gradual slope
80,00	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in
	the ground for cor. of sec. 22-23-26 and 27
	marked with — 2 notches on S. and 2 notches on
	E. edges; raised a mound of stones 2 ft. base
	1½ ft. high W. of cor. — Pits inaccessible
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber; dense high brush in patches
	Mountainous land 80,00 chs. —
	N 85°50' E. on a random line bet. secs. 23 and 26
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect N and S. line 24 chs. N. of cor of secs.
	23-24-25 and 26
	Thence 0 rend
	West on a true line bet. secs. 23 and 26
	on mountainous land
	Descending on steep S W slope to —
17,35	Spring 20 lks diam bears S. 40 lks
18,39	Enter bottom of gulch and spr. branch 2 lks wide
20,50	Leave " " " " " bears S 30 W.
	Begin ascent

Chains	
23,20	Enter dense aspen brake and brush
33,70	Leave " " " " "
35,70	Top of Spur N. 20° W. 300 ft above bottom of gulch
	Begin descent
40,00	Set a quartzite stone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft high N. of cor. – Pits impracticable
43,85	Stream 8 lks. wide swift current course N in narrow cañon 220 ft below top of spur
	Ascending to
59,00	Top of cañon and ridge 175 ft. high bears N. and S.
	Descending on broken slope
73,00	Top of spur. N. 60° W. thence on S.W. slope to
80,00	The cor. of secs. 22-23-26 and 27
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber:
	Mountainous land 80,00 chs. –
	August 6: The sky being overcast during the noon hour I was unable to observe the sun on the meridian. —
	N 0° 1' W. bet. secs. 22 and 23
	On mountainous land
	Ascending on broken W. slope to
2,50	Begin Descent
12,75	Bottom of ravine 90 ft. deep course W.
	Ascending to
20,00	Top of spur W.
	Descending
25,80	Bottom of ravine 80 ft. deep course W.
	Ascending
40,00	Set a porphyry stone 17 x 12 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft base 1½ ft. high W. of cor. – Pits impracticable
46,00	Top of spur W.
	Descending to
55,15	Bottom of ravine 100 ft. deep course W.

Subdivision of T. 12 N. R. 5 E.

Chains	Thence on broken slope W
— 80,00	Set a porphyry stone 17×12×6 ins. 11 ins. in the ground for cor of secs. 14-15-22 and 23 marked with 3 notches on S and 2 notches on E. edges; raised a mound of stones 2 ft base 1½ ft. high W. of cor. —
	Pits impracticable
	Land mountainous
	Soil gravely wash and boulders 3d rate —
	No timber. —
	Mountainous land 8000 chs
	East on a random line bet. secs. 14 and 23
40,00	Set temp. 1/4 sec. cor.
80,24	Intersect N. and S line 22 lks. N of cor of secs. 13-14-23 and 24
	Thence S run
	N 89° 51' W on a true line bet. secs. 14 and 23
	On mountainous land
	Descending gradually on broken slope N.W.
23,40	Edge of rocky precipitous slope bears N. 30° E
35,09	Stream 12 lks. wide swift current in bottom of narrow rocky canon 400 ft deep course N 20° E
	Begin ascent on steep rocky slope
40,12	Set a limestone 17×10×6 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. -
	A mahogany tree 6 ins. diam. bears N 68° 30' E 22 lks dist marked 1/4 S. B.T.
43,40	Top of canon and ridge bears. Nearly N. and S. 320 ft above stream
	Begin descent on broken slope
— 80,24	The cor. of secs. 14-15-22 and 23
	This cor stands on W slope 400 ft. below top of ridge
	Land mountainous
	Soil gravely and rocky 3d and 4th rate
	Timber a few stunted mahogany. in canon
	Mountainous land. 80,24 chs. -
	August 6, 1896

chains	August 7: I run
	N 0° 1' W. bet. secs. 14 and 15
	on mountainous land
	Descending gradually on W slope
7,00	Spur runs N 60° W.
	Begin steep descent
17,70	Bottom of ravine 60 ft deep, drains N.W.
40,00	Set a porphyry stone 17 x 7 x 5 in. 11 in in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable. -
80,00	Set a porphyry stone 18 x 9 x 5 in. 12 in in the ground for cor. of secs. 14 and 15 marked with 4 notches on S and 2 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. Pits impracticable
	This cor. stands about 800 ft below cor. of secs 14-15-22 and 23
	Land mountainous steep broken slopes
	Soil gravelly wash and boulders 3d rate
	No timber
	Mountainous land 80,00 chs. - -
	S 89° 57' E. on a random line bet. secs. 11 and 14
40,00	Set temp. 1/4 sec. cor.
80,20	Intersect N. and S. line 20 lks. S. of cor of secs. 11-12-13 and 14
	Thence I run
	West on a true line bet. secs. 11 and 14
	On mountainous land
	Ascending
1,00	Top of spur N.
	Begin steep descent
11,90	Bottom of gulch 250 ft. below spur, drains N
	Ascending
25,30	Top of spur N. 180 ft. high
	Descend on steep slope
40,10	Set a quartzite stone 18 x 8 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable

Subdivision of T. 12 N. R. 5 E

chains	
43,00	Bottom of ravine 400 ft. below top of spur, drains N 60° W.
	Ascending gradually on N. slope
57,60	Top of spur 100 ft. high runs N 25° W.
	Descending on rolling slope to
80,20	The cor. of secs. 14 and 15
	This cor. stands 850 ft. below cor. of secs. 11-12 13 and 14
	Land Mountainous
	Soil gravely wash and bowlders
	No timber
	Mountainous land 80,20 chs. —
	From the cor. of secs. 3-4-33 and 34 on S. bdy. of Tp. I set off 16°8'30" N on the deel are and at 0°5' p.m. l.m.t. August 7 observe the Sun on the meridian; the resulting latitude is 41°43'30"
	Thence I run
	N. 0°2' W. bet secs. 33 and 34
	On mountainous land
	Descending
4,00	Bottom of ravine 40 ft deep course W.
	Ascending to
10,70	Top of spur W. 80 ft. high.
	Begin descent on N.W. slope
28,47	Stream 2 lks. wide in bottom of narrow gulch 200 ft deep. course N.E.
	Ascending
30,92	Old wood road bears N 25° E and S 25° W.
37,50	Top of ridge bears E and W. 10 ft above stream
	Begin gradual descent on rolling surface
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor. — Pits impracticable
53,00	Bottom of swale drains E.
	Ascending gradually on rolling surface
73,00	Top of ridge 150 ft. high bears nearly E. and W.
74,00	Begin descent on broken slope

Subdivision of T 12 N R 5 E

chains	
80,00	Set a quartzite stone 18 x 8 x 5 in. 12 in in the ground for cor. of secs. 27-28-33 and 34 marked with - 1 notch on S. and 3 notches on E. edge: raised a mound of stones 2 ft base 1½ ft. high W. of cor. - Pits impracticable Land mountainous Soil gravely wash and boulders 3d rate No timber: much aspen brake and dense brush Mountainous land 80,00 chs
	East on a random line bet secs. 27 and 34
40,00	Set temp. 1/4 sec. cor.
80,06	Intersect N. and S. line at cor of secs. 26-27-34 and 35
	Thence Orns
	West on a true line bet. secs. 27 and 34
	On mountainous land
	Descending
8,75	Bottom of gulch bears N E
	Ascending to
21,90	Top of spur N 15° E 130 ft high, descending on rolling slope
24,20	Old road: bears nearly north and south
31,00	Bottom of ravine 90 ft. deep drains N 20° E
	Ascending
40,03	Set a quartzite stone 17 x 7 x 6 in. 11 in in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
47,00	Top of ridge 250 ft. high bears N. and S
	Descending on steep slope to
61,05	Stream 2 lks wide runs N. in narrow gulch 230 ft. below top of ridge
	Ascending
64,10	Old wood road bears N. and S.
80,06	The cor. of secs. 27-28-33 and 34
	This cor. stands 200 ft. above stream
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber: dense brake and brush in patches
	Mountainous land 80,06 chs

Subdivision of F. 12 N. R. 5 E.

chains	August 7: At 3h 55m p.m. I set off 41°44' on the lat. arc. 15°06' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 27-28-33 and 34
	Thence I run
	N 0° 2' W. bet. secs. 27 and 28
	On mountainous land
	Descending in brush and brake
24,00	Bottom of gulch 250 ft. below cor. course N. E.
	Ascending
40,00	Set a quartzite stone 18×10×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
64,00	Top of ridge bears N E and S W 300 ft. above gulch
	Begin descent
69,05	Leave brush and brake
80,00	Set a quartzite stone 17×12×6 ins. 11 ins. in the ground for cor. of secs. 21-22-27 and 28 marked with 2 notches on S and 3 notches on E. edges. raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber; dense brush and aspen brake
	Mountainous land 80,00 chs. -
	August 7, 1896
	August 8: I run
	East on a random line bet. secs. 22 and 27
40,00	Set temp. 1/4 sec. cor.
79,58	Intersect N. and S. line 37 lks. N. of cor. of secs. 22-33-26 and 27
	Thence I run
	N. 89°44' W. on a true line bet. secs. 22 and 27
	On mountainous land
	Descending
18,94	Stream 5 lks. wide flows N. in bottom of narrow gulch 175 ft. below cor. -
	Begin ascent
20,65	Old wood road bears N. and S.

Subdivision of T. 12 N. R. 5 E.

Chains	
39,79	Set a quartzite stone 18 x 10 x 6 inc 12 inc. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. . Pits impracticable
43,00	Top of ridge 300 ft. above stream bears N. and S
	Descending on steep slope to-
69,00	Stream 5 lks wide flows W in narrow gulch 400 ft. below top of ridge; begin ascent
70,15	~~Wood road bears~~ nearly N. and S.
74,10	Top of spur N 80 ft. high
	Descending
79,58	The cor. of secs. 21-22-27 and 28
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber; aspen brake and brush in patches
	Mountainous land 79,58 chs. —
	N 0° 21' W. bet. secs. 21 and 22
	On mountainous land
	Descending
6,40	Bottom of gulch course N. E.
	Begin ascent
24,00	Top of ridge 250 ft. high bears N. E and S.W.
	Descending
39,40	Bottom of gulch 100 ft. deep course nearly E.
	ascending to-
40,00	Set a sandstone 18 x 8 x 5 inc. 12 inc. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
49,50	Top of ridge 150 ft. high bears E and W
	Descend on broken slope
80,00	Set a sandstone 18 x 9 x 6 inc. 12 inc. in the ground for cor. of secs 15-16-21 and 22 marked 12 N. on N E and 5 E. on S E face with 3 notches on S and E edges. — raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber; dense brush and brake in patches

Subdivision of T 12 N. R 5 E

Chains	Mountainous land 80,00 chs.
	S 89° 44' E on a random line bet secs. 15 and 22
40,00	Set temp. 1/4 sec. cor.
79,78	Intersect N. and S. line 20 lks. S of cor. of secs. 14-15-22 and 23
	Thence, I run
	N. 89° 53' W. on a true line bet secs. 15 and 22
	On Mountainous land
	Descending
23,05	Dry Wash course N.; enter bottom of open gulch and claim of John Anderson
25,30	Stream 4 lks. wide in new channel. course N.
28,60	Fence bears N. and S. John Anderson dugout bears S. 7,04 chs.
	Leave John Anderson claim and gulch bottom
	Begin ascent
29,52	Old Wood road bears N. and S.
39,89	Set a sandstone 18 x 8 x 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
47,00	Top of ridge 200 ft. high bears N. and S.
	Begin descent on steep slope
68,66	Stream 4 lks. wide flows N. in narrow gulch 210 ft. below top of ridge
	Begin ascent on N. slope
73,94	Old Wood road bears N. and S on top of spur N
	Descending W
79,78	The cor. of secs. 15-16-21 and 22
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber; dense brush in patches.
	Mountainous land 79,78 chs.
	August 8: at this cor. I set off 15° 57' 30" on the decl. arc and at 0 45 m p m, I not observe the sun on the meridian; the resulting lat. is 41° 36' N.

	N 0° 2' W. bet. secs. 15 and 16
	On mountainous land

Subdivision of T. 12 N. R. 5 E.

Chains	
	Descending. -
8,90	Cottonwood Creek 8 lks. wide flows N.E in narrow gulch 90 ft below cor. -
	Begin ascent
12,15	Road from Blacksmith Fork to Round Valley course N.E. and S.W.
36,50	Top of spur E. 200 ft above creek
	Begin descent
40,00	Set a quartzite stone 18 x 13 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
64,30	Dry wash in narrow gulch 300 ft below spur course N. 70° E
	Begin ascent.
65,35	Ditch 6 lks. wide bears N 68° E
72,50	Top of spur N. E. 100 ft. high
	Descending
80,00	Set a quartzite stone 18 x 7 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! raised a mound of stones 2 ft base 1½ ft. high W. of cor. - Pits impracticable
	This cor stands on gradual slope N. E. 60 ft below Top of spur. -
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	No timber! brake and dense brush in latter
	Mountainous land 80,00 chs. —

	S. 89° 53' E. on a random line bet. secs. 10 and 15
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect N. and S. line 14 lks S. of cor. of secs. 14 and 15
	Thence Run
	N. 89° 59' W. on a true line bet. secs. 10 and 15
	On mountainous land
	Descending gradually
1,26	Irrigating ditch 3 lks wide flows. nearly N.
3,00	Dry wash in bottom of gulch, drains N
	Begin ascent
7,30	Ditch 3 lks wide flows. N 30° W.

Subdivision of T. 12 N. R. 5 E.

Chains	
9,00	Wood road bears N. 30° W. and S 30° E on top of spur N. Begin descent
29,06	Road from Blacksmith Fork to Round Valley bears N. E. and S. W. at foot of mountains Enter creek bottom and Dense undergrowth –
32,85	Cottonwood creek 8 lks. wide flows N. 30° E.
33,90	Same road bears N W. Begin ascent on mountainous slope
40,00	Set a porphyry rock 18 x 12 x 7 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable
43,50	Top of ridge bears N. 20° E. and S. 20° W. 140 ft. high Begin descent
49,91	Road from Blacksmith Fork to Round Valley bears nearly N. and S.
50,32	Fence parallel with road; enter farm of Geo. Murphy
53,60	Enter cultivated field bears N and S.; descending gradually Geo Murphy's house bears N. 9 chs Leave mountainous land;
56,86	Stream 3 lks wide flows N. E. in open gulch Begin gradual ascent
61,05	Leave cultivated field bears N and S Enter dense undergrowth –
65,11	Ditch 2 lks. wide flows N 20° E at foot of Mountainous Land Ascend
71,00	Fence bears N 20° W. and S. 20° E.: Leave Murphy's farm. –
80,00	The cor. of secs. 9-10-15 and 16
72,45 / 7,55	Land mountainous broken: and creek bottom Soil gravely wash; rocky on slopes – 2nd and 3d rate No timber:– Dense undergrowth of thorn and brush Mountainous land and dense undergrowth – 77.55 chs – –
	N 0° 2' W. on a random line bet secs. 9 and 10
40,00	Set temp. 1/4 sec. cor.
85,59	Intersect S bdy. of sec. 3-1,60 chs E of cor. of secs 3-4

Subdivision of T 12 & R 5 E

chains	9 and 10. which is a true freely set marked and witnessed as described by the surveyor general
	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for closing cor. of secs. 4 and 10 marked C C on S with 3 grooves on E. and 5 S. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor. - Pits impracticable. -
	Thence 9 runs
	S. 0° 2' E on a true line bet. secs. 9 and 10
	In level wild grass meadow claimed by Jer. Myers
9,20	Stream 8 lks wide flows E.
11,15	Fence bears S and W; leave meadow
	Enter land claimed by Thos Early
	Begin ascent on ~~Mtn~~ mountainous land
23,20	Top of spur E. 130 ft. high
	Begin descent
30,10	At foot of slope bearing E. and W. Fence ~~runs~~ parallel with foot of slope
	Enter lane; leave claim of Thos Early
30,40	Fence parallel to last; leave lane. - Enter claim of Jas Early
	Leave Mountainous land
33,00	Ditch 8 lks wide flows. S 80° E
33,35	Enter cultivated land in bottom of open gulch
37,40	Leave " " and " " " "
	Enter Mountainous land, and ascend
45,59	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft base 1½ ft. high W. of cor. - Pits impracticable
57,70	Top of spur E. 140 ft high
	Begin descent
60,75	Fence bears E. and W at foot of slope: -
	Enter claim of Geo. Murphy
	Leave Mountainous land
63,50	Enter cultivated field, bears E. and W. in open gulch
67,30	Leave " " " " " " " "
68,38	Dry Wash, drains E.
	Enter Mountainous land, and ascend
71,34	Fence bears N W and S. E.; leave Geo. Murphy's claim
75,67	The cor. of secs. 9-10-15 and 16
	Land mountainous and open gulch bottom

chains	
	Soil gravely wash, rocky on slopes 2nd and 3d rate No timber - - Mountainous land 59,81 chs. -
	At the established 1/4 sec. cor. bet. secs 10 and 11 which is a stone firmly set marked and witnessed as described by the surveyor general, ... August 8: at 4h 45m p.m. 2m.2. I set off 41°47'30" N on the lat. arc 15°49' N. on the decl. arc and determine a true meridian with the solar Thence I run South on a random line bet. secs. 10 and 11
40,00	A diligent search was made for the cor. of secs - 10-11-14 and 15 which could not be found
46,12	Intersect N. bdy. of sec. 15 2,09 chs W. of cor. of secs. 14 and 15 Set a porphyry rock 18 x 10 x 5 ins. 12 ins. in the ground for closing cor. of secs. 10 and 11 marked C.C. on N. with 2 groves on E. and N. faces; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable. - Thence I run North on a true line bet. secs 10 and 11 On mountainous land Descending gradually on broken surface in bottom of gulch. -
15,00	Road from Blacksmith Fork to Round Valley bears N E and S.W. at foot of mountains Leave mountainous land Enter level of Round Valley
15,32	Fence parallel with road Enter cultivated field of Geo. Early
46,12	The 1/4 sec. cor. bet. secs. 10 and 11 Land mountainous and level Valley
15,60 31,12	Soil gravely wash and bowlders on slope, Valley rich black loam - 3d and 1st rate No timber Mountainous land 15 chs. - August 8, 1896
	August 9: - Trone the cor. of secs. 4-5-32 and 33

Subdivision of T. 12 N. R. 6 E.

Chains	
	on S. bdy of Tp. I run
	N 0°2' W. bet. secs. 32 and 33
	On mountainous land
	Descending to
6,00	Bottom of gulch, drains N &
	Ascending
9,15	Top of spur 6.50 ft. high
	Descending
11,10	Bottom of ravine 40 ft. deep course E
	Ascending to
30,60	Top of spur N.E. 200 ft. high
	Begin descent
40,00	Set a sandstone 18×12×5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor
	Pits impracticable
49,50	Bottom of gulch 230 ft deep course N E
	Ascend
69,00	Top of spur N.E 160 ft high
	Descending to
78,65	Bottom of gulch 260 ft. below Top of spur course N 65° E
	Begin ascent
80,00	Set a quartzite stone 17×10×9 in. 11 in. in the ground for cor. of secs. 28-29-32 and 33 marked with 1 notch on S and 4 notches on E edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	Land mountainous
	Soil gravelly wash and boulders 2d rate
	no timber: dense brush and brake most of the way. -
	Mountainous land 80,00 chs. -

August 9: At 8 h 30 m a.m., 2.m.2 - I set off 41° 44' N on the lat. arc; 16° 37' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 28-29-32 and 33

Thence I run

East on a random line bet secs. 28 and 33

40,00	Set iron 1/4 sec. cor.
80,00	Intersect N and S line at cor. of secs. 27-28-33.

Chains	
	and 34
	Thence I run
	West on a true line bet. secs. 28 and 33
	On mountainous land
	Descending gradually on rolling N. slope
2,00	Head of draw. N 25° W
8,00	Top of spur N. 60 ft high
19,25	Bottom of gulch 150 ft. deep course N. E.
	Ascending W
34,00	Top of ridge 250 ft high bears N. and S.
	Descending
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable. —
48,10	Bottom of gulch 200 ft. below ridge drains N.
	Ascending on broken slope
60,00	Top of spur N W
74,60	Bottom of gulch course N. 60° E
80,00	The cor. of secs. 28-29-32 and 33
	This cor. stands 260 ft above gulch draining N
	Land Mountainous
	Soil gravelly wash and boulders 3rd rate —
	No timber: dense brake and brush most of the way. —
	Mountainous land 80,00 chs. -

	N 0° 2' W. bet. secs. 28 and 29
	On mountainous land
	Ascending
5,00	Top of spur 70 ft above cor. runs N. 60° E.
	Begin descent
28,20	Bottom of gulch 200 ft. deep course N. E
	Ascending
36,00	Top of spur 110 ft. high runs. N. E.
	Descending
40,00	Set a quartzite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor. Pits impracticable
44,80	Bottom of gulch 150 ft. deep course N 60° E

drains	ascending
51,00	Top of ridge 100 ft high bears N E and S.W.
	Descending
63,00	Head of ravine drains N E.
70,00	Top of spur and steep break to canon bears N.E. and S.W.
80,00	Set a sandstone 18 x 9 x 8 ins. 12 ins. in the ground for cor. of secs. 20-21-28 and 29 marked with 2 notches on S. and 4 notches on E. edges raised a mound of stone 2 ft. base 1½ ft. high W. of cor. — Pits impracticable. — This cor. stands on steep N.W. slope 400 ft below cor. of secs. 28-29-32 and 33 land mountainous soil gravelly with and boulders 3rd rate No timber: dense brush and brake in patches Mountainous land 80 acs. — August 9: At this cor. ☾ set off 15° 34' N. on the decl. arc and at 0h 45' p.m. L.M.T. observe the sun on the meridian; the resulting lat. is 41° 45' N
	East on a random line bet. secs. 21 and 28
40,00	Set temp. 1/4 sec. cor.
80,66	Intersect N. and S line 23 chs S. of cor. of secs. 21-22-27 and 28
	Thence 9 runs
	S 89° 60' W. on a true line bet. secs. 21 and 28 on mountainous land
	Descending
1,80	Bottom of gulch 60 ft. deep drains N.E.
	Ascending
22,00	Top of ridge 180 ft. high course N 20° E and S. 20° W.
	Descending on rolling surface
34,00	Bottom of open gulch, drains N.E.
	Begin gradual ascent on rolling surface
40,18	Set a quartzite stone 18 x 12 x 9 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
70,20	Top of spur and break to canon bears N.E. and S.W.

Subdivision of T. 12 N. R. 5 E.

chains	Begin descent on steep broken slope
80,36	The cor. of secs. 20-21-28 and 29
	Land Mountainous
	Soil gravelly wash and bowlders 3d rate
	No timber; much brake and brush
	Mountainous land 80,36 chs.
	N 0° 2' W. bet. secs. 20 and 21
	On Mountainous land
	Descending on steep slope to
4,55	Cottonwood creek 5 lks. wide flows N.E in narrow
	Canon 130 ft below cor.
	Ascending gradually
7,65	Road from Blacksmith Forte to Round Valley
	bears N.E. and S.W.
	Begin ascent on steep broken slope
13,00	Top of spur E. 80 ft. high
	Descend
18,20	Bottom of ravine 70 ft. deep drains E
	Ascending
00,00	Top of spur E. 175 ft high
	Descending
36,00	Bottom of gulch 130 ft. deep drains N 75° E
	Ascending to
40,00	Set a limestone 18 x 8 x 7 ins. 12 ins in the
	ground for 1/4 sec cor. marked 1/4 on W. face;
	raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. - Pits impracticable
54,50	Top of spur E. 200 ft high
	Descending
59,65	Bottom of gulch 120 ft deep, draining E.
	Ascending on broken slope to
80,00	Set a sandstone 18 x 8 x 7 ins. 12 ins in the
	ground for cor. of secs 16-17-20 and 21 marked
	with 6 notches on S. and 4 notches on E. edges;
	raised a mound of stones 2 ft. base 1½ ft.
	high W. of cor. - Pits impracticable
	Land Mountainous
	Soil gravelly wash and bowlders 3d rate
	No timber; heavy brush and brake in places
	Mountainous land 80,00 chs.

Subdivision of T. 12 N. R. 5 E.

chains	
	N 89° 50' E. on a random line bet. secs. 16 and 21
4,00	Set temp. 1/4 sec. cor.
80,20	Intersect N. and S. line at cor. of secs. 15-16-21 and 22
	Thence I run
	S. 89° 50' W. on a true line bet. secs. 16 and 21
	On mountainous land
	Descending
7,94	Cottonwood creek 8 lks wide swift current course N.E. in narrow canon
	Begin gradual ascent
10,56	Road from Blacksmith-Fork to Round Valley bears N.E and S.W.
	Ascending, on broken slope
40,10	Set a limestone 17 x 9 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. -
80,20	The cor. of secs. 16-17-20 and 21
	This cor stands on S.E slope 700 ft. above creek -
	Land mountainous
	Soil gravely and stony 3d rate
	No timber; dense brush in patches
	Mountainous land 80,20 chs. -
	August 9, 1896
	August 10: I run
	N. 0° 2' W. bet. secs. 16 and 17
	On mountainous land
	Ascending gradually on broken E. slope
6,00	Top of spur E.
	Begin descent
9,90	Bottom of gulch 90 ft deep, drains E
	Ascend
20,74	Top of spur E. 140 ft high
	Descend
36,90	Bottom of gulch 200 ft deep drains E
	Ascending to
40,00	Set a sandstone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor.

Subdivision of T. 12 N. R. 5 E.

Chains	
	Pits impracticable
69,50	Top of spur E. 200 ft above gulch
	Descending
76,28	Stream 2 chs. wide flows N. 60° E in narrow gulch 280 ft. deep.
	Ascending W
80,00	Set a sandstone 18×9×8 in. 12 in. in the ground for cor. of secs. 8-9-16 and 17 marked with 4 notches on S. and E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. -
	This cor stands on S.E. slope 90 ft. above stream
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	No timber; dense brush in patches
	Mountainous land 80,00 chs. —
	N 89° 50' E on a random line bet. secs. 9 and 16
40,00	Set limb 1/4 sec. cor.
80,00	Intersect N. and S. line 30 chs. N. of cor. of secs. 9-10-15 and 16
	Thence I run
	N. 89° 57' W. on a random line bet. secs 9 and 16
	Ascending gradually on N. slope, rolling
17,85	Bottom of ravine 65 ft. deep, drains N. 20° E
	Ascending W
40,00	Set a quartzite stone 18×9×5 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
41,10	Top of spur N.E. 350 ft above cor. of secs. 9-10-15 and 16
	Begin descent, gradually on N. slope
68,85	Spring 6 chs. diam. flows N.E.; stream 4 chs. wide in bottom of gulch
75,10	Stream 2 chs wide flows N. 60° E
	Begin ascent on steep slope
80,00	The cor. of secs. 8-9-16 and 17
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	No timber: heavy brush and brake in patches
	Mountainous land 80,00 chs.

Subdivision of T. 1 B.N. R 5 E.

chains	
	N 0°2' W. bet. secs. 8 and 9
	On mountainous land.
	Ascending
18,00	Top of spur N. 60° E. 200 ft. above cor.
	Begin gradual ascent on broken E. slope
38,00	Top of spur N. 25° E from main ridge
	Begin descent
40,00	Set a quartzite stone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
57,60	Stream 3 lks wide flows N 65° E. in narrow canon 300 ft deep.
	Begin ascent on steep broken slope
58,00	Top of canon and saddle running N 70° E and S 70° W.
	Begin gradual descent on broken W. slope
80,00	Set a quartzite stone 17 x 8 x 7 ins. 11 ins. in the ground for cor. of secs. 4-5-8 and 9 marked with 5 notches on S. and 4 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft high W. of cor. – Pits impracticable
	Land Mountainous
	Soil gravelly wash and rocky 3rd rate
	No timber: much brush and brake
	Mountainous land 80,00 chs –
	August 10: The sky being overcast during the noon hour I was unable to obtain the sun. on the meridian
	S 89° 57' E on a random line bet secs. 4 and 9
40,00	Set temp. 1/4 sec. cor.
79,92	Intersect W. bdy of sec 10 5,63 chs S. of closing cor. of secs. 4 and 10
	Set a sandstone 18 x 10 x 8 ins. 12 ins in the ground for closing cor. of secs. 4 and 9 marked C.C. on W. face with 3 grooves on W. and 4 grooves on S. faces; raised a mound of stones 2 ft. base 1½ ft high W. of cor. – Pits impracticable
	I destroy markings on S. edge of original cor. of secs 8-4 9 and 10, and mark for S.W. cor. of sec 3

Subdivision of T. 12 N R 5 E

Chains	Thence Irun
	N. 89°57' W on a true line bet secs. 4 and 9.
	Ascending gradually in pasture
7,45	Fence bears nearly N. and S. at foot of slope
	Begin ascent on Mountainous land bears N and S
16,60	Fence bears N 6° W and S 6° E: leave pasture
23,00	Top of spur N.E. 160 ft above cor.
	Descending gradually
30,90	Bottom of gulch 80 ft deep drains N.E.
	Ascending
39,96	Set a sandstone 18 x 9 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor
	Pits impracticable. –
49,30	Top of spur N.E
	Descend to
55,00	Ravine 70 ft deep draining N.E.
	Ascending steep slope to
74,00	Top of ridge 700 ft above closing cor. bears nearly N. and S
	Descending steep slope to
79,92	The cor. of secs. 4-5-8 and 9
	This cor. stands 125 ft below ridge on W. slope
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber:
	Mountainous land 72,47 chs. –

August 10: At 2h 30m p.m. I m.t. I set off 41°48' on the lat. arc. 15°14'30" N. on the deel arc and determine a true meridian with the solar at the cor of secs. 4-5-8 and 9

Thence Irun

N. 0°2' W. bet. secs. 4 and 5. –

On Mountainous land

Descending on steep W. slope

34,62	Bottom of gulch 300 ft below cor. course N. 20° E.
	Thence on broken E. slope ascending gradually
40,70	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a

Subdivision of T. 12 N. R. 5 E.

chains	
	mound of stones 2 ft. base 1½ ft. high. W. of cor. Pits impracticable
53,70	Ravine 40 ft. deep drains E.
68,00	Top of spur E. 150 ft above gulch
	Begin descent
77,40	Dry wash in bottom of gulch 175 ft deep course N. 85° E
78,43	Woodroad bears E. and W.
	Begin ascent
87,24	Intersect Third Standard parallel North 1,38 chs E. of standard cor. of secs. 32 and 33: set a quartzite stone 18×10×6 ins. 12 ins in the ground for closing cor. of secs. 4 and 5 marked C.C. on S. with 2 groves on W. and 4 groves on E face; raised a mound of stones 2 ft base 1½ ft high S of cor. – Pits impracticable
	This cor. stands on S.E. slope 90 ft. above wash
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber; dense brush and thorn in patches
	Mountainous land 87.24 chs. —
	August 10, 1896
	August 11: From the cor. of secs. ... – 31 and 32 on S bdy. of Tp Irun
	N 0° 3' W. bet. secs. 31 and 32
	On mountainous land
	Descending on steep slope, broken
37,60	Ravine drains N W.
	Thence on W slope
40,00	Set a quartzite stone, 18×10×8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor. – Pits impracticable
50,86	Road from Blacksmith Fork to Round Valley bears N 25° E and S 25° W. at foot of slope; enter bottom of gulch and
	Dense undergrowth
67,00	Stream 2 lks. wide flows N 25° E in miry bottom
74,00	Leave bottom of gulch; and begin ascent
	Leave dense undergrowth

Subdivision of T 12 N R 5 E.

Chains	
80,00	Set a sandstone 23×12×9 in. 17 in. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Land mountainous, high, broken and rolling. Soil gravely wash and mixy loam 3d rate. No timber:
	Dense undergrowth of willow and brake in bottom of gulch
	Mountainous land and dense undergrowth 80,00 chs. –
	August 11: at 8h 55m g. m, 2 m t. I set off 41° 44' on the lat. arc 15° 1' N on the decl. arc and determine a true meridian with the solar at the cor of secs 29-30-31 and 32
	Thence I run
	East on a random line bet. secs. 29 and 32
40,00	Set temp ¼ sec. cor.
80,26	Intersect N. and S. line 15 lks. N. of cor. of secs. 28-29-32 and 33
	Thence I run
	N 89° 54' W on a true line bet. secs. 29 and 32.
	On Mountainous land
	Ascending on broken slope
40,13	Set a sandstone 18×9×5 in. 12 in. in the ground for ¼ sec. cor. marked ¼ on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable. –
42,55	Top of main ridge 500 ft. above sec. cor. bears N. and S.
	Begin descent
70,60	Road from Blacksmith Fork to Round Valley bears nearly N. and S. at foot of slope 400 ft below top of ridge
	Enter bottom of gulch, and
	Dense undergrowth
73,75	Stream 2 lks wide flows N in mixy bottom
76,50	Begin ascent bears N. and S.
	Leave bottom of gulch and dense undergrowth

Chains	
80,26	The cor. of secs. 29-30-31 and 32 Land mountainous Soil gravely wash and stony 3d rate No timber: aspen brake and brush Dense undergrowth of willow and brake in bottom of gulch Mountainous land and dense undergrowth 80,26 chs.-
	West on a random line bet. secs. 30 and 31
40,00	At temp. 1/4 sec. cor.
78,11	Intersect N. bdy of Tp. at cor. of secs. 25-30-31 and 36 as hereinbefore described Thence I run East on a true line bet. secs. 30 and 31 On mountainous land Descending on broken slope in dense brake
26,60	Bottom of gulch and dry wash 250 ft below cor. course S.E.
	Ascending on rolling slope to
38,11	Set a quartzite stone 17x9x6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft base 1½ ft. high N. of cor. - Pits inaccessible
52,00	Top of spur S.E.: leave brake
	Descending gradually on rolling slope
78,11	The cor. of secs. 29-30-31 and 32 Land Mountainous Soil gravely wash and boulders 3d rate No timber: dense brake and brush Mountainous land 78,11 chs.-
	N 0° 3' W. bet. secs. 29 and 30 On mountainous land Ascending to
1,00	Top of spur E
	Begin gradual descent in aspen brake
37,80	Leave brake
40,00	Set a quartzite stone 18x10x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W.

chains	face: raised a mound of stones 2 ft. base 1½ ft high W. of cor. – Pits impracticable
44,60	Leave mountainous land
	Thence on nearly level meadow
52,30	Dry wash at bottom of slope drains E
67,00	Reservoir dam bears E. 30 chs.
70,30	Wood road bears N.W. and S.E.
75,00	Dry wash drains S.E.
75,60	Foot of ascent bears N.W and S.E.: leave meadow
	Enter mountainous land
80,00	Set a quartzite stone 18 x 12 x 7 ins. 12 ins. in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable.
	Land mountainous slope and rolling meadow.
	Soil gravelly wash, rocky, 3d rate
	No timber: aspen brake part way
	Mountainous land 46,00 chs.
	August 11: The sky being overcast during the more hour I was unable to observe the sun on the meridian
	S.89°54' E. on a random line bet. secs. 20 and 29
40,00	set temp. ¼ sec. cor.
80,18	Intersect N. and S. line 16 lks. N. of cor. of secs. 20-21-28 and 29
	Thence I run
	N.89°47' W. on a true line bet. secs. 20 and 29
	On mountainous land
	Descending steep rocky slope to
3,96	Cottonwood Creek 8 lks. wide flows N.E. in narrow canon 100 ft. below cor.
	Begin gradual ascent
7,40	Road from Blacksmith Fork to Round Valley bears N.E. and S.W.
	Ascending steep broken slope
40,09	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face: raised a mound of stones 2 ft base 1½ ft. high N. of cor. Pits impracticable

chains	
48,00	Top of ridge, sloping S to narrow gap, 415 ft. above creek. -
	Descending W.
80,18	The cor. of secs. 19-20-29 and 30
	Land: mountainous
	Soil gravely wash and bowlders 3d rate
	No timber: brush and brake in patches
	Mountainous land 80,18 chs-
	West on a random line bet. secs. 19 and 30
40,00	Set temp 1/4 sec. cor.
78,00	Intersect W. bdy. of Tp. 19 chs N. of cor. of secs. 19-24-25 and 30 as hereinbefore described
	Thence I run
	N 89° 52' E. on a true line bet. secs. 19 and 30
	On mountainous land
	Descending in brake and brush on broken slope
38,00	Set a sandstone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft high N. of cor. - Pits impracticable
72,00	Leave brake
75,25	Wood road bears N. and S.
75,70	Dry wash in bottom of gulch 550 ft. below cor on W. bdy. of Tp. drains S & E
	Ascending W.
78,00	The cor. of secs. 19-20-29 and 30
	Land mountainous, broken and rolling
	Soil gravely wash and bowlders 3d rate
	No timber: aspen brake and brush
	Mountainous land 78,00 chs-
	N. 0° 3' W. bet. secs. 19 and 20
	On mountainous land.
	Ascending on steep S.W. slope
4,00	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
76,00	Head of ravine 50 ft. deep draining S. 20° W.

Subdivision of T. 12 N. R 5 E.

Chains	
8,00	Set a sandstone 17 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 17-18-19 and 20 marked with 3 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable. - This cor. stands 600 ft above cor. of secs. 19-20-29 and 30 Land mountainous, steep broken slope Soil gravelly wash and boulders 3d rate No timber; aspen brake and brush in patches Mountainous land 80,00 chs. - August 11. 1896
	August 12: I run S. 89° 47' E. on a random line bet. secs. 17 and 20
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect N. and S. line 30 lks S. of cor. of secs. 16-17-20 and 21 Thence I run West on a true line bet. secs. 17 and 20 On mountainous land Ascending on steep broken slope E.
4,00	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. faces raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
6,50	Top of ridge 650 ft. above cor. bears N. and S. Begin descend on steep broken slope
8,00	The cor. of secs. 17-18-19 and 20 This cor. stands 300 ft below top of ridge Land mountainous Soil gravelly wash and boulders 3d rate No timber. - Dense brush and brake hard way Mountainous land 80,00 chs. -
	S 89° 52' W. on a random line bet. secs 18 and 19
11,00	Set temp. 1/4 sec cor.
77,70	Intersect W. bdy. of Tp. at cor. of secs. 13-18-19 and 24 as hereinbefore described

Chains	
	Thence Trav
	N. 89° 52' E. on a true line bet. secs. 18 and 19
	On mountainous land
	Descending on rolling broken slope to
37,70	Set a sandstone 17 x 8 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
53,80	Bottom of gulch near its head, course S. 450 ft. below sec. cor.
55,00	Old Wood road bears N. 15° W. and S. 15° E
	Ascending on steep broken slope to
77,70	The cor. of secs. 17-18-19 and 20
	Land mountainous
	Soil gravelly wash and bowlders 3rd rate
	No timber
	Dense brush and brake on half the distance
	Mountainous land 77,70 chs. —

	N 0° 3' W. bet secs. 17 and 18
	On mountainous land
	Ascending on broken W. slope in brush
12,00	Top of spur W.; thence descending gradually on broken slope
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
56,15	Stream 2 lks. wide in bottom of gulch 250 ft. deep course nearly E.
	Ascending to
77,00	Top of ridge bears E. and W. 200 ft. high
	Descending to
80,00	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for cor. of secs. 7-8-17 and 18 marked with 4 notches on S. and 5 notches on E. edge raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable. —
	Land mountainous
	Soil gravelly wash and bowlders 3rd rate

chains	
	No timber.
	Dense brush and brake the whole distance
	Mountainous land 80,00 chs. —
	August 12: at this cor. I set off 14° 40' N. on the deel arc and at 12 h 5 m p. m, l. m. t. observe the sun on the meridian the resulting lat. is 41° 47' N.
	East on a random line bet. secs. 8 and 17
40,00	Set temp. 1/4 sec. cor.
80,30	Intersect N. and S. line 19 lks. S. of cor. of secs. 8-9-16 and 17
	Thence I run
	S 89° 52' W. on a true line bet. secs. 8 and 17
	On mountainous land
	Ascending on steep broken slope, in dense brush and brake
40,15	Set a limestone 18 x 10 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. — Pits impracticable
45,70	Top of ridge 500 ft. above sec. cor. bears nearly N. E. and S. W.: sloping to gulch on S.
	Begin descent on broken spur
80,30	The cor. of secs. 7-8-17 and 18
	This cor. stands 400 ft. below top of ridge
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber.
	Dense brake and brush nearly the whole distance
	Mountainous land 80,30 chs. —
	S 89° 52' W. on a random line bet. secs. 7 and 18
40,00	Set temp 1/4 sec. cor.
77,62	Intersect W. bdy of Tp. 20 lks. S of cor. of secs. 7-12-13 and 18 as hereinbefore described
	Thence I run
	East on a true line bet. secs. 7 and 18
	On mountainous land
	Descending on rolling slope, in dense brake and brush
37,62	Set a quartzite stone 18 x 11 x 5 ins. 12 ins in

chains	
	the ground for 1/4 sec cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable
	Thence over rolling surface on N. slope to
77,62	The cor. of secs. 7-8-17 and 18.
	Land mountainous.
	Soil gravely wash and bowlders 3rd rate
	No timber. -
	Dense brush and brake on nearly the entire distance
	Mountainous Land 77,62 chs. —
	N. 0° 3' W. bet. secs. 7 and 8.
	On mountainous land
	Descending on rolling slope in, dense brush
27,65	Stream 2 lks wide in bottom of gulch 300 ft. deep course E.
	Ascending to
40,00	set a quartzite stone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
42,00	Top of slope and ridge bears. E and W
	Thence on broken E slope to
80,00	Set a quartzite stone 18 x 9 x 8 ins. 12 ins. in the ground for cor of secs. 5-6-7 and 8 marked with 5 notches on S. and E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber. -
	Dense brake and brush, nearly the entire distance
	Mountainous land 80,00 chs. -
	August 12, 1896
	August 13 at 7h 30m a.m., l.m.t. I set off 41° 48' N on the lat. arc 14° 26' 0" N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 5-6-7 and 8.
	Thence I run

chains	N 89° 52' E on a random line bet. secs. 5 and 8
40,00	set temp. 1/4 sec. cor.
80,00	Intersect N. and S. line 19 lks S of cor. of secs. 4-5-8 and 9
	Thence I run
	West on a true line bet secs. 5 and 8
	On mountainous land
	Descending on steep slope to
3,80	Bottom of gulch course N.; 120 ft. below cor
	Begin ascent on spur
40,00	set a quartzite stone 17 x 8 x 6 in. 11 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
52,00	Top of ridge 450 ft. above gulch bears N. and S.
	Descending
63,18	Bottom of gulch and dry wash 200 ft below ridge - course N.; as small spring bears S. about 5 chs
	Ascending to
80,00	The cor. of secs. 5-6-7 and 8
	This cor. stands 250 ft. above gulch
	Land mountainous
	Soil gravely wash and boulders 3rd rate
	No timber. -
	Dense brush and brake nearly the entire distance
	Mountainous land 80.00 chs. -
	West on a random line bet. secs. 6 and 7
40,00	set temp. 1/4 sec. cor.
77,44	Intersect W. bdy. of Tp 33 lks. S of cor. of secs. 1-6-7 and 12 as hereinafter described
	Thence I run
	S 89° 46' E on a true line bet. secs. 6 and 7
	On mountainous land
	Descending on steep broken slope in dense brake and brush. -
27,00	stream 2 lks. wide in bottom of gulch 300 ft. below cor. course N. E
	Begin ascent on rolling slope
37,44	set a quartzite stone 18 x 7 x 5 in. 12 in. in the ground for 1/4 sec cor. marked 1/4 on N. face;

chains	
	raised a mound of stones 2 ft. base 1½ ft high N. of cor. – Pits impracticable
50,90	Bottom of ravine 90 ft. deep, course N
76,80	Top of ridge from S 30° W.; sloping N. to gulch 500 ft above gulch
	Descending gradually to
77,44	The cor. of secs. 5-6-7 and 8
	Land mountainous
	Soil gravely and stony 3rd rate
	No timber.
	Dense brake and brush the whole distance
	Mountainous land 77,44 chs
	N 0° 3' W. bet. secs. 5 and 6
	On mountainous land
	Descending in spur, in brake and brush
36,13	Dry wash in bottom of narrow gulch 550 ft. below cor.; course N 65° E
36,36	Wood road parallel with wash
	Ascending
40,00	Set a sandstone 18 x 9-7 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
44,00	Top of spur running E
	Descending to
61,00	Bottom of gulch course S. 70° E.
	Ascending on rolling slope to
70,20	Top of ridge bears E. and W. 250 ft above gulch
	Descending
87,02	Intersect 3rd Standard Parallel North 1,46 chs. E. of standard cor. of secs. 31 and 32
	Set a sandstone 18 x 9x5 in. 12 in. in the ground for closing cor. of secs. 5 and 6 marked C.C on S with 1 grove on W and 5 groves on E. face; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. –
	Pits impracticable. –
	Land mountainous
	Soil gravely wash and boulders 3rd rate –
	No timber

chains	Dense brush and brake nearly all the way. Mountainous land 87.02 chs. — August 13, 1896

General Description

This township is all mountainous land with the exception of Round Valley in secs. 2-3-4-10 and 11 which is mainly covered by a former survey. — The soil is a gravelly wash and boulders and not suitable for cultivation but is quite fertile and affords good range and pasture without irrigation. —

There is no timber of sufficient size to be designated as such but more than half the area is covered with a dense, tall growth of aspen brake, and brush which is in places almost impenetrable

There are no quarries nor mines nor indications of mineral veins or deposits of any kind within the township

There are a few small streams fed by the melting snows, but which are nearly dry in the fall and winter —

A reservoir has been constructed by the settlers in Round Valley, in sec. 29; made by throwing an earthen dam across a narrow gorge. — It is of small capacity and little value, the dam being about 300 ft. long and about 12 ft. high in the center; it was made for the purpose of helping out the last watering of crops. —

There are one settler in sec. 10. within the area covered by the present survey while close to the boundary of the surveyed and unsurveyed area are a number of settlers whose claims extend into the present survey, this being the case with Thos. Early, John Early, Geo. Early Sr. and Jr. and Wm. E. Jenkins; the last named being located in sec. 4; the others having been accounted for previously in these

field notes, being applicant for survey of the township; of the remaining applicants Jed H. Kimball, Christopher C. Kearb, Joseph Robinson and Jos. S. Moffat are located in Tp 13 N R 5 E and will be accepted for in connection with that township. —

Andrew P Hanson
U S Deputy Surveyor

Retracement in T. 12 N R 5 E — Subdivision

From the cor. of sec 3 as hereinbefore described I run

N. 0° 2' W. on retracement line bet. secs. 3 and 4

40,00 A diligent search was made for the 1/4 sec. cor. as described by the surveyor general but no trace of it could be found

87,20 Intersect Third Standard parallel north — at the standard cor. of secs 33 and 34 which is a stone firmly set marked and witnessed as described by the surveyor general. —

From the 1/4 sec. cor. bet. secs. 2 and 11 as hereinbefore described I run

West on a retracement line bet. secs 2 and 11

40,85 Intersect N and S line at cor. of secs. 2-3-10 and 11 which is a stone firmly set marked and witnessed as described by the surveyor general. —

Andrew P Hanson
U.S. Dep. Surveyor

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List of Names.

A list of the names of the individuals employed by Andrew P Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and arking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of Tp. 9 N R 7 E — Tp 10 N Rs 7 and 8 E — Tp 11 N Rs 7 and 8 E — Tp. 12 N R 8 E — Tp 13 N R 8 E — Tp 14 N R 8 E — Tp 15 N R 8 E — Tp. 13 N R 5 E — Tp 15 N R 5 E — Tp 14 N — R 5 E — Tp 13 N R 4 E — and Tp 12 N R 5 E

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

D A Brotherton Chainman
Wm H Trone Axman or Flagman
H H Atkinson " " "

Final Oath of Assistants:

We hereby certify that we assisted Andrew P Hansen, U. S. Deputy Surveyor, in surveying all e parts or portions of the subdivision lines of Tp 9 N R 7 E — Tp 10 N Rs 7 and 8 E — Tp 11 N Rs 7 and 8 E — Tp 12 N R 8 E — Tp 13 N R 8 E — Tp 14 N R 8 E — Tp 15 N R 8 E Tp 13 N R 5 E — Tp 15 N R 5 E — Tp 14 N R 5 E — Tp 13 N R 4 E and Tp 12 N R 5 E

Salt Lake Base and Meridian, in the State of Utah, as are represented in the going field notes as having been surveyed by him and under his direction; and that said survey has been in all ects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, rding to the instructions furnished by the U. S. Surveyor General for Utah

D. A. Brotherton Chainman
Wm H Trone, Axman & Flagman
H H Atkinson " "

scribed and sworn to before me this 17th day of August, 1896

SEAL

Henry H. Atkinson
Notary Public

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....Meridian, in the ....., as are represented in the going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of C approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah Sept. 9, 1897

The foregoing field notes of the survey of the Subdivision of Township 12 North Range 5 East of the Salt Lake Base and Meridian Utah

.....

.....

.....

.....

..... executed by Andrew P. Hanson

under his Contract No. 204, dated December 30th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

6—151

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(4—679.)

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

South Boundary

of

Township No 14 North Range No 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, U. S. Deputy Surveyor,

der his Contract No. 204, dated December 30, 1890.

rvey commenced August 14, 1896.

rvey completed August 15, 1896.

—2, (90.) 6—151

1 40.00

Names and Duties of Assistants.

E H Geers Chainman or Mr. and

J L Barnes " "

F P Davies Flagman or Ch. "

BOOK A-243

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,~~ I J. L. Barnes

do solemnly swear that ~~we~~ I will well and faithfully execute the duties of chainman or monumenter ~~carriers~~; that ~~we~~ I will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that ~~we~~ I will report the true distance to all notable objects, and the true lengths of all lines that ~~we~~ I assist in measuring, to the best of skill and ability, and in accordance with instructions given ~~us~~ me in the survey of the Exterior boundaries of Tps. 14-13 and 12 N R 2 E — Tp 13 N R 2 W — Tp 15 N R 2 W Tp 14 N Rs 2 and 3 W — Tp 15 N Rs 4-5-6-12 and 14 W and Tp 14 N R 12 W. Salt Lake Base and meridian

_____, Chainman.

J. L. Barnes, Chainman. or monumenter

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this 14th day of August, 1896

Andrew P. Hansen
U.S. Deputy Surveyor

~~We,~~ I F. P. Davies

do solemnly swear that ~~we~~ I will well and truly perform the duties of axeman or Flagman in the establishment of corners and other duties, according to instructions given ~~us,~~ me and to the best of ~~our~~ my skill and ability, in the survey of the Exterior boundaries of Tps 14-13 and 12 N R 2 E — Tp 13 N R 2 W — Tp 15 N R 2 W Tp 14 N Rs. 2 & 3 W. Tp 15 N Rs. 4-5-6-12 and 14 W. and Tp 14 N R 12 W. — Salt Lake Base and Meridian

Subscribed and sworn to before me this 14th day of August, 1896.

F. P. Davies, Axeman. or Flagman

_____, Axeman.

Andrew P. Hansen
U.S. Deputy Surveyor

South boundary of T 14 S R 2 E

chains

Survey commenced August 14, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment.- The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. —
The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah. April 24. 1896. —
As this township is made up of very high and exceedingly rough mountains and can not be termed „Agricultural„ excepting as to a narrow strip along the western edge of the township and will therefor not be surveyed only so far as the agricultural land extends. therefor:
August 14: I go to the cor. of Tps. 13 and 14 S. Rs. 1 and 2 E. latitude 41°54' N. longitude 111°47' W. and having examined the adjustments of the transit: at 9h 49m p.m., 7 mt, I observe Polaris at its eastern elongation in accordance with Manual of Instructions and mark a point on the line thus determined on a stake driven in the ground 5,00 chs. S of my station.-

August 14, 1896

August 15: at 7h 3m a m, 7 mt, I lay off the azimuth of Polaris 1°40'30" to the west and mark the true meridian thus determined on a stone set firmly in the ground 5,00 chs S of my station. -
At 7h 20m a m, 7 mt I set off 41°54' on the lat. arc 13°48'30" N. on the decl. arc and mark a point in the true meridian determined by the solar on the stone already set 5,00 chs S. of my station; this mark agrees with the true meridian established by observation on Polaris without material difference, and I therefor conclude the adjustments of the instrument are satisfactory. —
The magnetic bearing of the true meridian at 7h 30m a m, is N. 16°59' W.: the angle thus determined reduced by the table page 100 gives mean mag.

chains	
	decl. 16°53' E.
	I begin at the T/4 cor. already described which is a stone firmly set marked and witnessed as described by the surveyor general. -
	Thence I run
	East bet. secs. 6 and 31
	On mountainous, rolling slope
	Ascending gradually on N. slope in dense brush on S side of fence running E. and W.
20,00	N. W. Egans cabin bears N 17°15' W.
24,00	Fence turns N 75° E
32,50	Spring branch 2 lks wide course N.
40,00	Set a sandstone 18×10×5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits inaccessible. -
	Egans cabin bears N 68°10' W.
60,00	300 ft. above T/4 cor. on N W slope; slope becomes steep and rocky
80,00	Set a limestone 18×12×7 ins. 12 ins in the ground for cor. of secs. 5-6-31 and 32 marked with 1 notch on W. and 5 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits inaccessible. -
	This cor stands on steep rocky N.W. slope 500 ft. above T/4 cor.
	Land mountainous, broken slope
	Soil gravely and rocky 3d rate
	No timber - dense thorn and cherry brush most of the way
	Mountainous land 80,00 chs -
	East bet. secs. 5 and 32
	Ascending on mountainous slope; steep and rocky
18,00	On N slope, very broken, ascending gradually
40,00	Set a limestone 18×11×6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits inaccessible. -
	This cor. stands 500 ft. above the cor. of secs. 5-6-31 and 32. -
	Land mountainous very broken
	Soil rocky 4th rate

South boundary of T. 14 N R 2 E

Timber, a few mountain mahogany -
Mountainous land 4,00 chs -
As this line would, if extended pass over very high and exceedingly rough and broken mountains which can in no ways be termed agricultural land, therefor I discontinue at this cor. -

August 15, 1896

This township is all very rough and rocky high mountains excepting a narrow strip along the western boundary which is rolling ridges and gulches a small amount of which can be used for cultivation. -
The township is watered by a few small streams and contains considerable valuable timber, which remains only for the reason it is very hard of access. -
The township should in part be subdivided

Andrew P Sanders
U S Deputy Surveyor

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List of Names.

A list of the names of the individuals employed by .....
....., U. S. Deputy Surveyor, to assist in running, measuring, and
ating the lines and corners described in the foregoing field notes of the survey of the .....
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.....Meridian, in ...., showing
espective capacities in which they acted:
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Final Oath of Assistants:

We hereby certify that we assisted .....
....., U. S. Deputy Surveyor, in surveying all
parts or portions of the .....
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.....
.....Meridian, ..., as are represented in the
ing field notes as having been surveyed by him and under his direction; and that said survey has been in all
ts, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established,
ding to the instructions furnished by the U. S. Surveyor General for .....
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.....

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

SEAL

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BOOK A-243

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....Meridian, in the....., as are represented in the going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for.... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of C approved August 8, 1846.

.....
U. S. Deputy Surveyor

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

SEAL

.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah Sept. 9, 1897

The foregoing field notes of the survey of the South Boundary "Th" North Range 2 East of the Salt Lake Base and Meridian

.....

.....

..... executed

Andrew P. Hanson

under his Contract No. 204, dated December 30, 1895, having been examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

George W. Snow
U. S. Surveyor General.

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

.....
U. S. Surveyor General.

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BOOK A-243

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FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 14 North Range No 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, U. S. Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895.

Survey commenced August 15, 1896.

Survey completed August 17, 1896.

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D 55 45 x
1279 66

BOOK A-243

Names and Duties of Assistants.

E. S. Giers [illegible] to [illegible]

J. L. Barnes " "

F. P. Davies Flagman or [illegible]

BOOK A-243

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

Preliminary Oaths of Assistants.

~~We~~, I J. L. Barnes

do solemnly swear that ~~we~~ I will well and faithfully execute the duties of chain ~~carriers~~ man or monumentman; that ~~we~~ I will level the chain over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that ~~we~~ I will report the true distance to all notable objects, and the true lengths of all lines that ~~we~~ I assist in measuring, to the best of ~~our~~ my skill and ability, and in accordance with instructions given ~~us~~ me in the survey of the [redacted] subdivision lines of T. 14-13 and 12 N. R. 2 E — T. 13 N. R. 2 W. — T. 15 N. R. 3 W. — T. 14 N. R. 2 and 3 W. — T. 15 N. R. 4-5-6-12 and 14 W. and T. 14 N. R. 12 W. of the Salt Lake Base and M.

, Chainman.

J. L. Barnes, Chainman.

, Chainman.

, Chainman.

Subscribed and sworn to before me this 15th day of August, 1896.

Andrew P. Hansen
U.S. Deputy Surveyor

~~We~~, I F. P. Davies

do solemnly swear that ~~we~~ I will well and truly perform the duties of Flagman or axemen in the establishment of corners and other duties, according to instructions given ~~us~~ me, and to the best of ~~our~~ my skill and ability, in the survey of the subdivision lines of T. 14-13 and 12 N. R. 2 E. — T. 13 N. R. 2 W. — T. 15 N. R. 3 W. — T. 14 N. R. 2 and 3 W. — T. 15 N. R. 4-5-6-12 and 14 W. and T. 14 N. R. 12 W. of the Salt Lake Base and Meridian

Subscribed and sworn to before me this 15th day of August, 1896.

F. P. Davies, Flagman or Axeman.

, Axeman.

Andrew P. Hansen
U.S. Deputy Surveyor

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Subdivision of T. 14 N. R. 2 E.

chains	
	Survey commenced August 15, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment; for the further description of which reference is hereby made to the survey of the S. bdy of this Tp. and also regarding the testing of adjustments of the instrument. —
	August 15: At 9h 56m a.m. I set off 41° 54' on the lat arc: 13° 46' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 5-6-31 and 32 on S. bdy of Tp. 14 N. R. 2 E. as set by me this day. —
	Thence I run
	N 0° 1' E bet. secs. 31 and 32
	On mountainous slope, steep and rocky
	Descending
8,47	Foot of slope and wood road bears E and W. 240 ft. below cor.
	Enter City Creek bottom and dense; high brush
11,61	Dry bed of City Creek 16 lks wide course W.
16,80	Dry wash course S W.
	Begin ascent on steep slope; leave dense brush
40,00	Set a limestone 18 x 11 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
49,20	Top of ridge 400 ft. above creek course E. and W.
	Descending to
69,90	Bottom of gulch 350 ft. below ridge course N 75° W.
	Ascending to
79,50	Top of spur W. 180 ft. above bottom of gulch
80,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins in the ground for cor of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	This cor stands on top of spur, on steep W. slope in oak brush
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	No timber. —
	Dense high brush. part of the way

Subdivision of T 14 N R 2 E

Chains	Mountainous land 8000 chs.
	West on a random line bet. secs. 30 and 31
40,00	set temp 1/4 sec cor.
79,90	Intersect W. bdy. of Tp. at cor of secs. 25-30-31 and 36 Which is a stone firmly set marked and witnessed as described by the Surveyor General. Thence I run
	East on a true line bet. secs. 30 and 31
	On mountainous slope, steep and rocky
	Ascending
12,00	Top of ridge 200 ft. above cor. bears N 65° E and S 65° W
	Thence on broken S. slope ascending gradually
39,95	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.—
69,54	Dry wash in bottom of gulch course S 60° W.
	Begin ascent on steep slope in oak brush
79,90	The cor of secs. 29-30-31 and 32
	This cor. stands 200 ft. above bottom of gulch and 500 ft above sec. cor. on W. bdy.
	Land mountainous, broken slopes
	Soil gravely wash and bowlders 3d rate
	No timber.— Oak brush part of the way
	Mountainous land 79,90 chs
	August 15: At this cor. I set off 13° 44' N on the decl. arc and at 12h 4m p m, ? m ? observe the sun on the meridian the resulting lat. is 41° 55'.
	East bet secs. 29 and 32
	On mountainous, steep rocky slope.
	Ascending
40,00	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.—
	Pits impracticable.—
	This cor. stands on rocky broken slope 800 ft. above the cor. of secs. 29-30-31 and 32.—
	This line continued would pass over high barren and exceedingly broken mountains, not agricultural therefor I discontinue at this cor.—
	Land mountainous very rugged
	Soil rocky 4th r. bl.

Subdivision of T 14 N R 2 E

chains	Timber a few scrubby mountain mahogany. Mountainous land 40,00 chs.
	N 0° 1' E bet. secs. 29 and 30
	On mountainous slope, descending
10,10	Bottom of gulch and dry wash 140 ft. below cor. course S 60° W.
	Begin ascent
17,50	Top of ridge course E and W. 130 ft. above gulch
	Descending on steep slope
40,00	Set a quartzite stone 24 x 12 x 10 ins. 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
42,50	Bottom of slope bears E. and W. 475 ft. below top of ridge
	Enter Cherry Creek bottom, and dense brush
42,65	Wood road course E and W.
49,00	Dry bed of Cherry creek 16 lks wide course W.
	Begin ascent
53,33	Fence of Justin Shepard bears. S W and N E
56,61	Ditch 2 lks. wide course N 65° W
67,43	Fence of Justin Shepard course N 60° W and S 60° E
	Ascent becomes more steep and brush scattering
80,00	Set a sandstone 18 x 9 x 7 ins. 12 ins in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable. –
	This cor. stands on S. slope 300 ft. above creek bottom
	Land Mountainous
	Soil gravely wash and boulders. 3d rate
	No timber. –
	Dense high brush in patches
	Mountainous land 80,00 chs –
	West on a random line bet secs. 19 and 30
40,00	Set temp. 1/4 sec. cor.
80,06	Intersect W. bdy. of Tp. 23 lks S. of cor. of secs. 19-24-25 and 30 which is a stone firmly set marked and witnessed as described by the surveyor general. –
	Thence I run
	S 89° 50' E. on a true line bet. secs. 19 and 30

Subdivision of T. 14 N. R. 2 E.

chains	
	In yard, orchard and field of L.C. Johnson; level bottom land
1,30	House of L C Johnson bears S 75 lks.
22,00	Leave cultivated land. bears N. and S.
	Enter dense undergrowth
24,76	Fence. bears N W and S E
24,80	Dry wash and ravine 15 ft. deep course N W at foot of mountainous slope; begin steep broken:
	Ascent
26,50	Leave dense undergrowth
26,69	Irrigation ditch 4 lks wide course N W.
40,03	Set a sandstone 18×10×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. –
	Pits impracticable
	Ascending gradually on S W slope, broken
45,10	Fence bears N. and S.
79,30	Ditch 2 lks wide course S 30° W.
80,06	The cor. of secs. 19-20-29 and 30
	This cor. stands 350 ft above the cult. field
58,06 / 22,00	Land mountainous and level creek bottom
	Soil gravely wash 1st rate in bottom; on slope 3d rate
	No timber.
	Dense undergrowth of oak brush and thorn 4.50 chs
	Mountainous land and dense undergrowth 58,06 chs.
	East bet. secs. 20 and 29
	On mountainous slope, ascending
5,00	At mouth of rocky ravine from N 75° E; begin ascent on steep rocky slope in cliffs.
40,00	Set a limestone 18×9×5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. –
	Pits impracticable. –
	This cor stands on steep rocky slope W. 600 ft. above the cor. of secs. 19-20-29 and 30
	This line continued would pass over high barren and very broken mountains, not agricultural: therefor I discontinue at this cor. –
	Land mountainous
	Soil gravely and rocky 4th rate
	Timber: [illegible]

Subdivision of T14N R2E

chains	Mountainous land 4000 chs.
	N 0°1' E. bet. secs. 19 and 20
	On mountainous slope, ascending
3,10	Ditch 2 chs wide course S.W.
9,56	Fence bears E and W.
11,85	Top of spur W. 150 ft above cor.
	Begin descent
16,50	Bottom of draw course W. 70 ft. deep.
	Ascending to
31,00	Top of spur W. 200 ft. above draw
	Descending to
40,00	Set a sandstone 18×10×8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. -
	Pits impracticable
	Thin cor. stands in bottom of draw W. 100 ft. below spur
	Ascending to
54,00	Top of spur W. 200 ft. above draw
	Descending on rolling slope
63,85	Bottom of slope bears E and W.; enter rolling bottom
	bottom of gulch draining W. 200 ft below spur
	Begin gradual ascent, in dense brush
68,46	Wood road bears E and W.
80,00	Set a granite stone 17×10×8 ins. 12 ins. in the ground for cor. of secs. 17-18-19 and 20 marked with 3 notches on S and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	This cor. stands in the bottom of open gulch close to foot of steep rocky slope toward the E. and in dense high brush
	Land mountainous rolling bottom
	Soil gravelly wash and large boulders 4½ rule
	No timber, - dense brush and thorn
	Mountainous land 8,00 chs. -
	August 15, 1896
	August 16: Same

Subdivision of T 14 N R 2 E

chains	
	N 89°50' W. on a random line bet secs. 18 and 19
40,00	Set temp 1/4 sec. cor.
79,60	Intersect W. bdy of Tp. 23 thu N. of cor. of secs. 13-18-19 and 24 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	East on a true line bet. secs. 18 and 19
	On mountainous steep slope
	ascending
14,60	Top of spur course S 60° W and N 60° E 280 ft. above cor.
	Descending gradually on S. slope
35,60	N E cor. of J W Bowman fence bears S. 3,30 chs –
38,85	Bottom of gulch and dry wash course S.W.
	Begin gradual ascent in bottom of hollow
	In dense undergrowth – bears N E and S W
39,80	Set a limestone 17 x 12 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
55,65	Enter dry ditch turns to S 60° W 6 ths wide
66,50	Leave ditch from N.E.
79,60	The cor. of secs. 17-18-19 and 20
	Land mountainous, rolling foothills
	Soil gravely wash and large bowlders 3rd rate
	No timber. –
	Dense undergrowth of oak, cherry, and thorn
	Mountainous land and dense undergrowth 79,60 chs
	East bet. secs. 17 and 20
	On mountainous bottom slope, ascending gradually
	In dense undergrowth –
11,00	Foot of steep rocky slope bears N. and S:
	Leave dense undergrowth –
40,00	Set a granite stone 17 x 9 x 7 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
	This cor. stands on S.W. slope 600 ft. above cor. of secs. 17-18-19 and 20

chains	This line continued would pass over high barren and very broken mountains, not agricultural therefor I discontinue at this cor.
	Land mountainous
	Soil gravelly wash and rocky 4th rate
	No timber
	Dense undergrowth of oak, cherry, maple, and thorn
	Mountainous land and dense undergrowth 4000 chs
	N 0° 1' E bet. secs. 17 and 18
	On mountainous slope, broken and rolling
	Descending gradually
	In dense undergrowth —
10,40	Dry ditch 6 lks wide course SW.
18,85	Dry wash and bottom of gulch course S 60° W. 110 ft below cor.
	Begin ascent on steep slope
31,00	250 ft. above bottom of gulch; top of steep slope bears N 65° E and S 65° W.
	Ascending gradually
40,00	Set a quartzite stone 18 x 8 x 6 inc. 12 inc. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
48,50	Top of slope bears bears E and W.; enter level rolling plateau
64,00	N edge of plateau bears E and W.
	Begin gradual descent
80,00	Set a quartzite stone 18 x 8 x 7 inc 12 inc in the ground for cor. of secs. 7-8-17 and 18 marked with 4 notches on S. and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W of cor. —
	Pits impracticable
	Land mountainous,
	Soil gravelly wash and boulders 3rd rate
	No timber
	Dense undergrowth of oak, and cherry brush and thorn. —

Subdivision of T 14 N R 2 E

Chains	Mountainous land and dense undergrowth — 8000
	August 16: at this cor. I set off 13°25' N on the decl. arc and at 12h 4m p.m., 1 m ♃ observe the sun on the meridian: The resulting lat. is 41°58' N
	West on a random line bet. secs. 7 and 18
40,00	set temp. 1/4 sec. cor.
79,92	Intersect W. bdy. of Tp. 7 lks S of cor. of secs. 7-12-13 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	S 89°57' E on a true line bet. secs. 7 and 18
	In cultivated field; creek bottom
0.85	Fence bears S 80° W and N 80° E
1,56	Fence bears N. and S.: begin ascent from creek bottom bears. N and S; leave cultivated field
3,20	Top of slope 40 ft. above; enter gradually sloping bench
5,25	High Creek road bears S 20° W. and N 20° E
5,43	Fence parallel with road
	Enter cultivated field
8,88	Leave cultivated field bears N E and S.W.
	Begin ascent on break " " " "
11,35	Top of 2nd. bench 50 ft. above;
	Enter cultivated field and ascend gradually
13,81	Irrigating ditch course S 30° W. 10 lks wide
24,90	Leave cultivated field bears N 30° E and S 30° W.
	Enter dense undergrowth
26,75	Irrigating ditch 5 lks wide course S.W.
26,96	Fence bears N.E. and S.W. along the foot of ship bottom slope.
	Leave dense undergrowth
	Begin ascent on mountainous slope
39,96	Set a quartzite stone 18 x 10 x 8 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N of cor.
	Pits impracticable
	This cor stands on W. slope 300 ft. above cor. on W. bdy
67,00	Top of Spur N. 300 ft. above 1/4 sec cor.
	Begin descent

Subdivision of T 14 N R 2 E

chains	
72,00	Bottom of ravine 80 ft deep drains N
	Ascending to
79,92	The cor. of secs. 7-8-17 and 18
	Land mountainous, and sloping bench
55,02 / 24,90	Soil gravely wash 1st rate on benches; on slopes rocky 3d rate
	No timber. -
	Dense undergrowth of wild rose and cherry 2,06 chs
	Mountainous land and dense undergrowth 55,02 chs
	East bet. secs. 8 and 17
	On mountainous slope; ascending
3,00	Top of spur N 20° W.
	Begin descent on steep broken N.E. slope
20,14	Dry wash in bottom of gulch course N 35° W. 400 ft below top of spur
	Ascending to
40,00	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N of cor
	Pits impracticable
	This cor stands on steep rocky W slope 200 ft above wash. -
	This line continued would pass over high barren and very broken mountains not agricultural therefor I discontinue at this cor. -
	Land mountainous very broken
	Soil gravely and rocky 3d rate
	No timber
	Mountainous land 40,00 chs. -
	August 16: At 3h 28m p m, I set off 41° 58' on the lat. arc 13° 22' 30" N on the decl. arc and determine a true meridian with the solar at the cor. of secs 7-8-17 and 18
	Thence I run
	N. 0° 1' E. bet. secs. 7 and 8
	On mountainous slope, rolling
	Descending

Subdivision of T14 N R2 E

chains	
20,52	Fence bears N 60° W and S 60° E
25,90	Foot of slope bears N 60° W and S 60° E 350 ft below cor.
	Enter cultivated field of Hyrum Baird; course parallel with foot of slope
29,60	Leave cultivated field
30,99	Fence bears N 60° W and S 60° E
31,20	On mountainous slope: descending
32,74	Dry wash and ravine 30 ft. deep course N 60° W.
	Begin ascent
40,00	Set a quartzite stone 18 × 9 × 7 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
56,00	Top of spur W. 200 ft above wash
	Begin descent on deep rocky slope
67,61	Ditch 6 lks wide course S 60° W.
68,50	Enter dense high brush bears N 60° E and S 60° W
68,80	Enter creek bottom 350 ft below top of spur
69,50	High Creek 35 lks. wide 18 ins. deep swift current course S 60° W.
	Begin ascent
74,12	Leave brush course parallel with creek
74,16	High Creek road " " "
74,37	Fence bears. " " "
	Enter cultivated field, ascending gradually
	Leave mountainous slope
77,55	Irrigating ditch course W 3 lks. wide
77,62	Fence bears E. and W; leave cultivated field
	Begin ascent on mountainous slope
80,00	Set a sandstone 18 × 10 × 8 ins. 12 ins. in the ground for cor. of secs. 5-6-7 and 8 marked with 5 notches on S and E. edges.; raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable
71,45 / 8,55	This cor. stands on S. slope 55 ft above creek
	Land mountainous, broken slopes
	Soil gravelly wash and rocky 2nd and 3d rate
	No timber. - Fringe of dense high brush along creek
	Mountainous land 71,45 chs.

Subdivision of T14N R2E

Chains	
	N 89°57' W on a random line bet. secs. 6 and 7
40,00	Set temp. 1/4 sec cor.
80,12	Intersect W. bdy of Tp. 21 lks N of cor. of secs. 1-6-7 and 12 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	N 89°54' E on a true line bet. secs. 6 and 7
	On mountainous slope, ascending
0,56	Fence bears S 75° E
3,35	Irrigating ditch from High Creek 10 lks wide course N.
20,70	Top of spur S 30° W. 300 ft above cor.
21,00	Station: from whence
	Center of Norman Days house bears S. 20°47' W.
	" " John Eskelsons " " S 11°32' W
	" " Frank Days " " S 4°48' W.
	" " Roland Williams " " S 7°27' W.
	" " Hyrum Williams " " S 1°24' E
	" " Hyrum Bairds " " S 24°17' E
	" " Ely Williams " " S 75°18' E
21,25	Begin descent on broken S. slope
33,00	Station: from whence
	Center of Norman Days house bears. S 30°0' W.
	" " John Eskelsons " " S 20°10' W.
	" " Frank Days " " S 15°20' W
	" " Roland Williams " " S 19°31' W.
	" " Hyrum Williams " " S 20°25' W.
	" " Hyrum Bairds " " S 6°42' W.
	" " Ely Williams " " S 68°18' E
	These and one house in sec 5 constitute the settlement of High Creek. -
39,98	Bottom of ravine 100 ft. deep course S
	Ascending
40,06	Set a limestone 18 x 10 x 7 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable. -
44,00	Top of ravine; begin gradual descent on S. slope
52,80	Bottom of ravine 80 ft. deep course S

Chains	
	ascending to
56,00	Top of ravine & begin descent on rolling S slope to
80,12	The cor. of secs. 5-6-7 and 8
	This cor. stands 300 ft. below top of spur
	Land mountainous broken steep slopes
	Soil gravelly wash and bowlders 3d rate
	No timber
	Mountainous land 80,12 chs.
	August 16, 1896.

	August 17: I run
	N 0°1' E on a random line bet. secs. 5 and 6
40,00	set temp. 1/4 sec. cor.
80,14	I intersect N. bdy. of Tp. 12 chs. E. of cor. of secs. 5-6-31 and 32 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	S 0°4' E on a true line bet. secs. 5 and 6.
	on mountainous slope, rolling
	Ascending to
40,14	set a sandstone 18 x 12 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face & raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable. —
57,70	Top of ridge 500 ft. above cor. on N. bdy bears. S 65° W. and N 65° E
	Begin descent on steep slope
80,14	The cor. of secs. 5-6-7 and 8
	This cor. stands 350 ft. below top of ridge
	Land mountainous
	Soil gravelly wash and bowlders 3d rate.
	No timber
	Mountainous land 80,14 chs.

	East bet. secs. 5 and 8
	on mountainous slope, descending gradually
4,73	Ditch 3 chs. wide course S 65° W.
4,77	Fence bears S 70° W and N 70° E
	Enter cultivated field

Subdivision of T.14 N. R.2 E.

Chains	
7,30	Leave cultivated field bears N and S
8,38	Fence bears. S 25° W and N 25° E
8,74	High Creek road bears. N E and S.W.
	Enter dense high brush parallel with road
10,90	High Creek 35 lks wide 18 ins deep, swift current course S.W.
	Begin ascent
11,65	Fence bears N E and S W.: leave brush; enter cultivated field
17,36	Leave field bears N E and S W.
	Enter dense undergrowth of wildrose and cherry
17,45	Irrigating ditch 6 lks wide course S.W.
	Ascent becomes steep and broken, on N. slope
40,00	Set a gray sandstone 22 x 8 x 7 ins. 16 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
	This cor. stands on steep N slope in dense brush 300 ft. above creek. -
	James Denley's house bears. N 31° 35' W. 14,30 chs. in about 5 acres of cultivated field
58,00	Top of spur N 140 ft. above 1/4 sec. cor.
	Descending gradually on steep broken slope
75,73	Ravine 90 ft. deep course N
	Ascending to
79,00	Top of spur 50 ft. above ravine: running N
	Descending to
80,00	Set a quartzite stone 17 x 10 x 7 ins. 12 ins. in the ground for cor. of secs. 4-5-8 and 9 marked with 5 notches on S and 4 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. -
	Pits impracticable. —
	Land mountainous,
	Soil gravely wash and boulders 3rd rate
	No timber. - Dense high brush most of the way
	Mountainous land 80,00 chs. - -

N. 0° 2' E on a random line bet. secs. 4 and 5

Subdivision of T 14 N R 2 E

Chains	
40,00	Set temp 1/4 sec. cor.
79,92	Intersect N. bdy. of Tp. 28 lks. E. of cor. of secs. 4-5-32. and 33 which is a stone firmly set marked and witnessed as described by the surveyor general.
	Thence I run
	S 0°10' E on a true line bet. secs. 4 and 5
	On mountainous broken slope
	ascending E
23,00	Top of spur S 70° W. 220 ft. above cor.
	Begin descent on S W slope
39,92	Set quartzite stone 17 x 8 x 5 in. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones. 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable. —
72,35	High Creek road bears. E and W.
	Entered dense high brush
75,82	High Creek 25 lks. wide course W. swift current in narrow gulch 300 ft. below top of spur
77,00	Begin ascent on steep rocky N. slope
79,92	The cor. of secs. 4-5-8 and 9
	This cor. stands 120 ft. above creek.
	The remaining unsurveyed part of this township is all high barren, rocky, and very broken mountain not agricultural by the most liberal interpretation of that term; therefore I discontinue my survey at this cor.
	Land mountainous
	Soil gravelly and rocky 4th rate
	No timber
	Mountainous land 79,92 chs
	August 17, 1896

General Description

The portion of this township covered by the present survey is all rolling foothills at the base of and including a part of the Wasatch mountains. — It is composed of long straight moraine ridges, and narrow gulches; through which small streams flow

Subdivision of T 14 N R 26

from the mountains to the open valley to the west. The soil is a gravely wash with many bowlders but is very fertile and with irrigation grows heavy crops; and without irrigation furnishes excelent pasture.—

There is no timber within this part of the township but much dense heavy brush.

There are no quarries nor mines; nor any indications of mineral of any kind.—

There are 11 settlers in this part of the township all having more or less land under cultivation but the farms are not large and the total area so used is not over 300 acres.—

John W. Bowman who holds desert entry No 734 in sec. 19 has part of said claim fenced in and is using it for pasture; he resides in sec. 24 T 14 N R 1 E

William C Ormond has a residence on N.W. 4 S.W. 4 Sec 6 and claims the same though his desert filing No 13,03 has become obsolete.—

Justin Shepard who hold desert filing No 2172 in sec. 30 has part of his claim fenced and uses the same for pasture but does not reside on it 5

Robert Dowdle has a home in about the center of Lot 4 sec. 6 and has about 20 acres under cultivation it is his intention to homestead and use his soldiers right on the N.W. 1/4 of sec. 6—

Andrew P Hanson
U.S Deputy Surveyor

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PAGE

List of Names.

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

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

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

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Final Oath of Assistants:

We hereby certify that we assisted .....

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

.....

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.....Meridian, ..., as are represented in the ...ng field notes as having been surveyed by him and under his direction; and that said survey has been in all ...s, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, ...ng to the instructions furnished by the U. S. Surveyor General for .....

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

SEAL

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Final Oath of U. S. Deputy Surveyor.

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

.....
.....Meridian, in the....., as are represented in
going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear
the corners of said survey have been established and perpetuated in strict accordance with the surveying
printed instructions, the special written instructions of the U. S. Surveyor General for.....
and in the specific manner described in the field notes, and that the foregoing are the true field notes of such
and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of
approved August 8, 1846.

.....
U. S. Deputy S

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

SEAL

.....
.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City Utah Sept. 9, 189

The foregoing field notes of the survey of the subdivision of Township 14 North Range 2 East of the Salt Lake Base and Meridian, Utah

.....
.....
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.....
.....
Andrew P. Hanson
under his Contract No. 204, dated December 30th 1895, having been
examined, the necessary corrections and explanations made, the said field notes, and the surveys they
hereby approved.

George W. Tuor
U. S. Surveyor

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

.....
U. S. Surveyor G

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Accounts Z2
4—679.

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K.J.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

East Boundary

of

Township 13 North Range 1 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, United States Deputy Surveyor,

nder his Contract No. 204, dated December 30, 1895

uvey commenced August 17, 1896

uvey completed " 17, 1896

6—151

$ 2.00 00

BOOK A-243

Names and Duties of Assistants.

E S L Giers Chainman or Mr.

J L Barnes " " "

F P Davies Flagman or Axman

6—151

BOOK A-243

INDEX DIAGRAM.

Township 13 N, *Range* 1 E

6	5	4	3	2	1
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page .....

Preliminary Oaths of Assistants.

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

.....*, Chai*

.....*, Chai*

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 establishm
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

.....*, Moun*

.....*, Mound*

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

.....*, A*

.....*, Ax*

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

SEAL

.....

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

.....*, Fla*

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

SEAL

.....

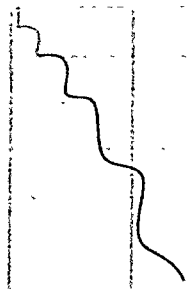
.....

East Boundary of T. 13 N. R. 1 E.

chains Survey commenced August 17, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. —
The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the Surveyor General for Utah April 24, 1896.
Having recently tested the adjustments of the instrument in connection with the survey of T. 14 N. R. 2 W. and found them satisfactory and being confident they still remain so I consider it unnecessary to repeat the test at this time.

August 17: At the standard cor. of Tps. 13 N. Rs. 1 and 2 E which is a stone firmly set marked and witnessed as described by the surveyor general, I set off 41°49' on the lat. arc 13°3' N on the decl. arc and at 2h0' p m, 1 m t. determine a true meridian with with the solar. —
Thence I run
North on a random line bet. secs. 31 and 36
4,000 set temp 1/4 sec. cor.
8,000 Falls 15 lks. E of the cor of secs. 25-30-31 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general. —
Thence I run
S. 0° 6' E on a true line bet. secs. 31 and 36
On mountainous land
Ascending on broken slope
4,000 set a limestone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —

East boundary of T 13 N R 1 E



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East boundary of T. 13 N. R. 1 E.

chains.	
	Pits impracticable
37,00	Top of ridge and spur N 60° W. 750 ft. above sec. cor.
	Descending to
53,00	On head of gulch draining W.
	Ascending
57,30	Top of ridge bears S 60° W and N 75° E
	Begin descent on steep broken slope
80,00	The standard cor. of Tps. 13 N Rs 1 and 2 E
	This cor stands on S. E slope 450 ft. below top of ridge. —
	Land mountainous very rugged
	Soil gravelly wash and bowlders 3rd rate
	Not timbered
	Mountainous land 80,00 chs. —

	North on a random line bet. secs. 25 and 30
40,00	Set temp 1/4 sec. cor.
80,00	Falls 26 lks. E of the cor. of secs. 19-24-25 and 30 which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run
	S 0°11' E on a true line bet. secs. 25 and 30
	On mountainous land
	Ascending over broken N. W. slope to
11,00	Head of ravine course N 75° W.
35,40	Top of ridge running N. from the main mountain range 600 ft. above sec. cor.
	Begin descent
40,00	Set a limestone 17 x 9 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
77,70	Stream 5 lks. wide in bottom of narrow gulch 700 ft. deep course W.
	Ascending gradually in brush, to
80,00	The cor. of secs. 25-30-31 and 36
	Land mountainous
	Soil gravelly wash and bowlders 3rd rate

East boundary of T. 13 N. R 1 E.

chains No timber
Mountainous land 80,00 chs -
August 17, 1896

Boundaries of T 13 N R 1 E
Latitudes departures and closing errors

Line designated	True bearing	Dist.	Latitudes		Departures	
			N	S	E	W.
		chs	chs	chs	chs	chs.
Third St. Parallel N.	East	480,00			480,00	
Salt Lake Meridian	North	480,00	480,00			
North boundary	West	480,00				480,00
East "	S 0° 3' E	320,00		320,00	0.25	
" "	S 0° 11' E	80,00		80,00	0.26	
" "	S 0° 6' E	80,00		80,00	0.14	
Convergency						0.65
Totals			480,00	480,00	480.65	480.65
Errors in lat. and dep.					480.65	
					0.03	

A P Hanson
U.S. Dep. Surveyor

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

arking the lines and corners described in the foregoing field notes of the survey of .....

.....

owing 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

or parts or portions of the .....

.....

.....

..... of the ..... base

d ..... meridian, ... of ....., which are represented

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

G—151

BOOK A-245

280

Final Oath of United States Deputy Surveyor.

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

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

.....
United States Deputy Su

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 Sept. 9, 1

The foregoing field notes of the survey of The East Boundary of Tp 13 N
1 E of the Salt Lake Base & Meridian Utah

executed by Andrew P. Hanson
under his contract No. 204, dated December 30th, 1895, having
critically examined, and the necessary corrections and explanations made, the said field notes, an
surveys they describe, are hereby approved.

George W. Snow
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in T1
R1 E of the S L B & M, has been correctly copied from the original notes on file in this c

.....
United States Surveyor Gen

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4—679.

Not Compared

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines -

of

Township No. 13 North Range No. 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895

rvey commenced August 17, 1896

rvey completed August 18, 1896

6—151

6.00.88

BOOK A-243

Names and Duties of Assistants.

E. S. Giers Chainman or Marksman

J. L. Barnes " " "

F. P. Davies Flagman or Axman

6—151

BOOK A-243

INDEX DIAGRAM.

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Meanders Page .....

Preliminary Oaths of Assistants.

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

..... , *Chain*

..... , *Cha*

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 corners, according to the instructions given us, to the best of our skill and ability, in the survey of

..... , *Mound*

..... , *Moundm*

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 and other duties, according to instructions given us, to the best of our skill and ability, in the surve

..... , *A*

..... , *Axm*

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

SEAL

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

..... , *Fla*

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

SEAL

Subdivision of T13N R2E

chains

Survey commenced August 17, 1896 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.
The instrument was examined, tested on the true meridian at Salt Lake; found correct and was approved by the surveyor general for Utah April 24, 1896
August 17: I go to the cor. of Tps 13 and 14 N Rs 1 and 2 E. as fully described by me in the survey of S bdy. of T14 N R2 E; and at 4h32m p.m. mt. set off 41°54' on the lat. arc 13°2'30" N on the decl. arc and compare the true meridian established by the solar with the true meridian established by observation on Polaris at this place on August 15, 1896 and marked on a stone 5.00 chs N. of the cor. as fully recorded at the beginning of survey of S bdy. T14 N R2 E. — There being no material difference between the two meridians thus determined I conclude the adjustments of the instrument are correct. —

The entire township 13 N R2 E being composed of high rocky and barren mountains not agricultural and will not be surveyed, with the exception of a very small area in the N.W. corner; therefore
I go to the cor of secs. 5-6-31 and 32 on N. bdy of Tps. as set by me August 15, 1896; and at 3h48m p.m. mt set off 41°54' on the lat. arc 13°3'30" N. on the decl. arc and determine a true meridian with the solar.
Thence I run
S 0°2' E between 5 and 6
on mountainous ridge steep and rocky.
Ascending in rank brush
15.10 Top of spur elev. 300 ft. above cor.
Descending on rolling slope to

Subdivision of T 13 N R 2 E

Chains	
36,50	Head of gulch draining W 180 ft. below top of spur
	Ascending to
40,00	Set a limestone 18×12×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W of cor.
	Pits impracticable.-
	This cor. stands on top of a spur W. 70 ft. above gulch
	Descending to
52,07	Wood road bears E and W.; enter dense high brush.
54,37	Nebo Creek 3 lks wide drains W. in steep narrow gulch 250 ft. below 1/4 sec. cor.
	Begin ascent, gradually
56,90	Wood road bears E and W. at foot of steep broken slope
73,00	Top of spur W. 430 ft. above creek
	Descending to
77,65	Bottom of gulch 100 ft. below top of spur; course W.
	On N W slope ascending to
80,00	Set a limestone 18×12×11 ins. 12 ins. in the ground for cor. of secs. 5-6-7 and 8 marked with 5 notches on S. and E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.-
	Pits impracticable.-
	Land Mountainous
	Soil rocky and gravely 4th rate
	On timber.- Dense high brush most of the way
	Mountainous land 80,00 chs.-
	West on a random line bet. secs. 6 and 7
40,00	Set temp. 1/4 sec. cor.
80,50	Intersect W. bdy. of Tp. 47 lks S. of cor. of secs 1-6-7 and 12 which is a stone firmly set marked and witnessed as described by the surveyor general.-
	From this cor. the house of A D Rodgers bears S 29°45' E 10 chs.-
	The house of J R Moody bears from the 1/4 sec cor. bet. secs. 1 and 6 W. bdy. T 13 N R 2 E. S 30°30' E. 4 chs.-
	Thence I run

Subdivision of T 13 N R 2 E

chains	S 89° 40' E on a true line bet. secs. 6 and 7
	On dense undergrowth –
	Ascending gradually on rolling slope on side of opp. gulch
10,34	Spring branch 2 lks wide in wash 10 ft. deep course N W
21,24	Enter dense high brush
26,50	Mirry spring 30 lks diam. drains S 80° W.
29,25	Leave high dense brush
40,25	Set a Quartzite stone 18×12×6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor.
	Pits impracticable.–
61,24	Bottom of ravine and wash course N W 300 ft. above cor on W. bdy. –
	Begin ascent in brush and brake
	On mountainous slope, steep and rocky
80,50	The cor. of secs. 5-6-7 and 8.
	This cor. stands on N W slope 300 ft. above bottom of ravine
	2 and rolling broken slope and mountainous
	Will gravely wash in gulch 1st rate on mountain slope rocky 4th rate
	No timber.–
	Dense undergrowth of wild cherry thorn and sage
	Mountainous land and dense undergrowth 80,50 chs–
	August 17, 1896

August 18: at 7h 28m a m. pmt ☉ set off 41° 53' on the lat. arc 12° 51' N on the decl. arc and determine a true meridian with the solar at the cor. of 5-6 7 and 8 – –

Thence Orem

S. 0° 2' E. bet. secs. 7 and 8

On mountainous slope, very steep and rocky

12,00	Enter top of spur S 80° W. 450 ft above cor.
16,70	Begin descent on steep rocky slope
40,00	Set a limestone 18×10×7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.–
41,45	Dry wash in bottom of narrow ravine 370 ft. below

Subdivision of T13N R2E.

chains	
	top of spur: course S.W.
	Ascending to
625,0	Top of spur S 20° W. 1 sharp, rocky, 250 ft. above bottom of ravine
	Begin descent on steep broken slope
80,00	Set a quartzite stone 18 x 12 x 10 ins. 12 ins. in the ground for cor. of secs. 7-8-17 and 18 marked with 4 notches on S. and 5 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.—
	This cor. stands on steep SE slope 400 ft below top of spur
	Land mountainous
	Soil gravely and rocky 4th rate
	Timber: a few scrubby pine on N side of spur
	Mountainous land 80,00 chs.—
	N 89° 40' W on a random line bet. secs. 7 and 18.
40,00	Set temp 1/4 sec. cor.
80,12	Intersect W. bdy of Tp. 40 lks. N of cor of secs. 7-12 13 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general.—
	Thence I run
	S 89° 57' E on a true line bet. secs. 7 and 18
	On mountainous slope, steep and broken
	Ascending to
4,50	Top of spur S.E. 75 ft above cor.
	Begin descent
8,17	Fence bears N. and S: turns S 85° W 1 chain S of line
17,10	Spring branch 4 lks wide from spring 2 chs. N of line: in bottom of narrow gulch 250 ft. below spur
	Begin ascent
27,50	Top of Spur S. 170 ft above bottom of gulch
	Descending to
30,00	Sam. Nielsons ranch house in bottom of Smithfield Canon bears S 1° 0' E 47.30 chs.
40,06	Set a quartzite stone 24 x 11 x 9 ins. 18 ins in the ground for 1/4 sec cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor.

Subdivision of T13NR26

chains	
	Pits impracticable
42,70	Spring branch 4 lks. wide in bottom of narrow gulch 200 ft. below top of spur; course S 13° W.
	Begin ascent on steep rocky slope
70,00	Top of sharp rocky spur S 15° W. 550 ft. above bottom of gulch
	Begin descent on steep rocky slope
80,12	The cor. of secs. 7-8-17 and 18
	This cor. stands on S. E. slope 220 ft. below top of spur
	Land mountainous
	Soil gravely and rocky 4th rate
	No timber
	Mountainous land 80,12 chs.
	S 0° 21' E bet. secs. 17 and 18
	On mountainous land
	Descending on steep rocky slope
29,50	East end of Sam Nielson fence and field about 400 chs wide bears W. 5,00 chs dist.
	Enter dense high brush; bottom of narrow canon 400 ft below Cor.
32,02	Smithfield Creek 1 ft. deep rapid current course W.
32,30	South edge of creek
34,87	Road from valley to mountains course E. and W.
36,00	Leave brush and bottom of canon; begin ascent on steep rocky slope and brake
40,00	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
68,00	Top of spur S 80° W. 600 ft. above creek.
	Descending on broken slope to
80,00	Set a quartzite stone 18 x 11 x 7 ins. 12 ins in the ground for cor. of secs. 17-18-19 and 20 marked with 3 notches on S and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable. -
	This cor. stands on S.W. slope 200 ft. below top of spur
	Land mountainous

chains	
	Soil rocky and gravely 4th rate No timber.– Dense high brush along creek and brake and brush on slope S of creek. Mountainous land 80,00 chs – August 18: At this cor. I set off 12°46'30" N. on the dec. arc. and at 12h 4m p.m., 2 m t observe the sun on the meridian the resulting lat is 41°51'30" N.
	N 89°57' W. on a random line bet. secs. 18 and 19
40,00	set temp. 1/4 sec cor.
80,26	Intersect W bdy of Tp. 33 chs S of cor. of secs. 13-18-19 and 24 which is a stone firmly set marked and witnessed as described by the surveyor general.– Thence I run S 89°43' E on a true line bet. secs. 18 and 19 On mountainous land; steep rocky slopes, ascending
35,30	On top of spur S 75° W 500 ft above cor.
40,13	Set a quartzite stone 18 x 9 x 7 ins. 12 ins in the ground for 1/4 sec cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable.– Ascending gradually on S W. slope, broken and rocky.–
80,26	The cor. of secs. 17-18-19 and 20 This cor. stands 160 ft above the 1/4 sec cor. Land Mountainous. Soil rocky and gravely 4th rate No timber Mountainous land 80,26 Chs– The remainder of this township is all high, rocky and very broken mountains. comprising the highest portion of the Wasatch Range and not agricultural nor containing a single settler and will not be surveyed.– August 18, 1896

Subdivision of T 13 N R 2 E

General Description

The conditions in this township is identical with those of T. 14 N. R 2 E the general description of which is hereby referred to

There are two settlers in this township: J R Moody who has about 30 acres in cultivation and who intends to make a Homestead entry as soon as he can do so; and A D Rodgers who has about 5 acres in cultivation and who expects to make the same kind of filing.- The last named settler holds also, desert filing No 4276 on N ½ S E ¼ sec 6 T 13 N R 2 E upon which I could discover no improvements.

Sam. Nielson who is the successor of Moritz Moritsen original claimant of desert entry No 1541 in sec 18 uses his ranch for stock and hay purposes but does not reside on it.-

Emma N Cazier claimant of desert entry No 4307 in sec. 18 is a sister of Sam. Nielson and their interests are in common.-

Andrew P Hanson
U S Deputy Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____

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

_____

...oving 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 ...s parts or portions of the _____

_____

_____

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

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

...ibed and sworn to before me this _____
...y of _____, 189

SEAL

_____

_____

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Final Oath of United States Deputy Surveyor.

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

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

United States Deputy S...

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, Sept 9, 1...

The foregoing field notes of the survey of the subdivisions of Township 13 North Range 2 East of the Salt Lake Base and Meridian, Utah

executed by Andrew P Hansen under his contract No. 204, dated December 30th, 1895, h. ving critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

George W Snow

United States Surveyor G...

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

United States Surveyor Gen...

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4—679.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 12 North Range No 2 East

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, United States Deputy Surveyor,

der his Contract No 204, dated December 30, 1895

rvey commenced August 19, 1896

rvey completed August 19, 1896

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4-00.32

.61

Names and Duties of Assistants.

E. S. G. Giers Chainman or Mondman

J. L. Barnes " " "

F. P. Davies Flagman or Axman

6—151

BOOK A-243

INDEX DIAGRAM.

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Preliminary Oaths of Assistants.

WE, ... and

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

.....

....., *Chai*

....., *Chai*

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 estab corners, according to the instructions given us, to the best of our skill and ability, in the survey of

.....

....., *Mou*

....., *Mounc*

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 and other duties, according to instructions given us, to the best of our skill and ability, in the su

.....

....., *A*

....., *A*

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

SEAL

.....

.....

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

....., *Fla*

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

SEAL

.....

.....

Subdivision of T12 N R 2 E

Chains	
	Survey commenced August 19, 1896 and executed with a W & L E Gurley legal mountain transit with solar attachment.— The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs The instrument was examined: tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24. 1896.—
	Having recently tested the adjustments of the instrument on a true meridian established by observations on Polaris at the commencement of survey T13 N R2 E reference to which is hereby made; and found them satisfactory and being confident they so remain I consider it unnecessary to repeat the test at this time.—
	August 19: at the cor. of secs. 7-12-13 and 18 Tp 12 N. Rs 1 and 2 E latitude 41°47'30" N longitude 111°47' W. which is a stone firmly set marked and witnessed as described by the surveyor general; at 8h 30m a m I m t I set off 41°47'30" N on the lat. arc 12°30' N on the decl arc and determine a true meridian with the solar.—
	The magnetic bearing of the true meridian thus established is N 16° 56' W.; the angle thus determined reduced by the table page 100 gives mean mag decl. 16°50' E.—
	From the cor. already described I run
	East bet. secs. 7 and 18
	On a high bench 300 ft above valley; ascending gradually on rolling slope
	In dense undergrowth—
	On fence line E and W.
10,00	John Smitter house bears N 10°48' E 22,75 chs.—
12,53	Fence turns S at foot of steep mountain slope N 30° E and S 60° W.
	On mountainous land, ascending
	Leave dense undergrowth
14,70	Dry wash in mouth of canon course N 50° W.
	Thence on S W slope

Subdivision of T. 12 N. R. 2 E.

Chains	
4000	Set a limestone 18 x 12 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. Pits impracticable
7270	Top of spur N 20° W. 750 ft above foot of slope ascending gradually on broken slope
8000	Set a limestone 18 x 10 x 6 ins. 12 ins in the ground for cor of secs. 7-8-17 and 18 marked with 4 notches on S and 5 notches on E edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.- Pits impracticable.- Land sloping bench and Mountainous slope Soil gravely wash on bench 1st rate on slope 3d rate No timber.- Dense undergrowth of sagebrush and thorn Mountainous land and dense undergrowth 8000 ch
	N 0° 1' E bet. secs. 7 and 8 Mountainous land Descending on rocky broken slopes
36,80	Dry wash and bottom of cañon 640 ft. below cor. course W. Ascending
4000	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.-
5700	Top of spur W. 500 ft above wash Begin descent
7810	Bottom of cañon and dry wash 500 ft below top of spur course N 65° W. Ascending to
8000	Set a limestone 25 x 10 x 6 ins 18 ins in the ground for cor. of secs. 5-6-7 and 8 marked with 5 notches on S and E. edges: raised a mound of stones 2 ft base 1½ ft. high W. of cor. Pits impracticable This cor stands on steep S.W. slope 50 ft. above wash Land Mountainous Soil rocky and gravely 4th rate No timber Mountainous land 8000 ch

Subdivision of T 12 N R 2 E

chains	
	West on a random line bet. secs. 6 and 7.
40,00	Set temp. 1/4 sec. cor.
79,90	Intersect - N bdy of Tp 16 lks. N of cor of secs. 1-6-7 and 12 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	N 89°53' E on a true line bet. secs. 6 and 7
	On high sloping bench 360 ft. above valley ascending gradually
	In dense undergrowth
3,65	Fence bears. N and S.
19,00	Road to valley bears. N E and S W.
21,60	Enter cultivated land of S.H. Hearst: bears N and S
	Leave dense undergrowth
33,10	Leave cultivated land: bears N and S.
	Enter dense undergrowth
35,00	Foot of steep mountain slope bears N and S
	Leave dense undergrowth
	Enter mountainous land: and ascend
39,95	Set a limestone 24 x 10 x 6 ins. 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
	House of S.H. Hearst bears. N 19°42' W 33,50 chs.
	Cabin of Isaac Jorgensen bears. N 0°40' W 66,00 chs.
40,90	Dry Wash and bottom of canon course N 65° W.
65,20	Bottom of same canon course S 62° W. and dry wash
72,00	Top of spur N 30° W.: descending to
76,95	Dry wash and bottom of canon course N 60° W.
	Ascending to
79,90	The cor. of secs. 5-6-7 and 8
	This cor. stands 400 ft above foot of mountain slope
	Land sloping rolling bench, and mountainous, broken steep slope
	Soil gravely wash on bench 1st rate; on mountains rocky 4th rate
	No timber
	Dense undergrowth of sagebrush and thorn
	Mountainous land and dense undergrowth - 79,90 chs.
	Aug. 19. at this cor. I set off - 12° 26' 30" N on the deel. arc and at 12h 3m p m, l m t observe the sun on the meridian, the resulting latitude is 41° 48"

Subdivision of T. 12 N. R 2 E.

Chains	
	N. 0°1' E. bet. secs 5 and 6.
	Mountainous land, very broken and rocky.
	Ascending
14,00	Top of spur W. 350 ft above cor
	Begin descent
22,15	Spring branch 1 lk wide in bottom of narrow canon 250 ft below top of spur course N. 70° W.
	Ascending ~~over~~ broken slopes to
40,00	Set a limestone 18 x 10 x 9 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable
50,00	Top of spur W. 700 ft. above bottom of canon
	Descending to
66,30	Bottom of gulch 400 ft. below top of spur: course N 65-
	Ascending broken slope to
80,44	Intersect 3d Standard Parallel North - 61 lks W. of cor. of secs. 31 and 32 which is a stone firmly set marked and witnessed as described by the Surveyor general. Set a limestone 18 x 9 x 8 ins. 12 ins. in the ground for closing cor. of secs. 5 and 6 marked C C on S with 1 grove on W and 5 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor.
	Pits impracticable. –
	Land mountainous
	Soil rocky and gravely 4th rate
	No timber
	Mountainous land 80.44 chs.
	August 19, 1896.

General Description

The conditions in this township is identical with those of of T 14 N R 2 E.: the general description of which is hereby referred to. –

There are three settlers in this township; - S. H. Hearst and Isaac Jorgensen in sec. 6 and John Smith in sec. 7. S. H. Hearst is successor to William Hyde who filed desert entry No 2264 which has become obsolete Hearst intending to make a Homestead filing as soon he can do so; - he has about 60 acres in cultivation. John Smith has acquired the rights of Wm Kilgore

Subdivision of T 12 & R 2 E.

who made desert filing No 2537. he has about 40 acres in cultivation all of which as well as the foregoing is dry farming no irrigation being possible.
Isaac Jorgensen has a small garden under cultivation
The remaining unsurveyed portion of this township is a high barren and very broken mountains.- not agricultural. —

Andrew P Sansom
U.S Deputy Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

ing the lines and corners described in the foregoing field notes of the survey of .....

.....

oing 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

e parts or portions of the .....

.....

.....

..... of the ..... base

..... meridian, ... of ....., which are represented

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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BOOK A-243

Final Oath of United States Deputy Surveyor.

I, _____, United States Deputy Surve
solemnly swear that, in pursuance of a contract received from
United States Surveyor General for _____, bearing date
_____ day of _____, 189 , I have well, faithfully, and truly, in
proper person, and in strict conformity with the instructions furnished by the United States
General for _____, the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of _____
_____
_____
_____
_____ of the
and _____ meridian, in the _____ of _____, which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sol
swear that all the corners of said survey have been established and perpetuated in strict accordance w
Manual of Surveying Instructions, and the special written instructions of the United States Su
General for _____ and in the specific manner described in the field notes, an
the foregoing are the original field notes of such survey; and should any fraud be detected, I will
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

_____
United States Deputy Su

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 Sept. 9, 1

The foregoing field notes of the survey of the subdivisions of Township 12 South Range 2 East of the Salt Lake Base and Meridian, Utah
_____
_____
_____
_____
_____
executed by Andrew F. Hanson
under his contract No. 204, dated December 30th, 1895, h. vin
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

George W. Snow
United States Surveyor Gene

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

_____
United States Surveyor Gen

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BOOK A-243

FIELD NOTES

OF THE SURVEY OF

North Boundary

of

Township No. 13 North Range No. 2 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Sharpe, United States Deputy Surveyor,

under his Contract No. 204, dated December 30, 1895

Survey commenced August 20, 1896

Survey completed August 22, 1896

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BOOK A-243

Names and Duties of Assistants.

E. H. Geers Chainman or Monumentman

J. L. Barnes

S. P. Davies Flagman or Axeman

6—151

BOOK A-243

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page .....

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Preliminary Oaths of Assistants.

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

..... *Ch*

..... *Chain*

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 establis
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... *Mound*

..... *Mound*

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 co
and other duties, according to instructions given us, to the best of our skill and ability, in the s
.....

..... *A*

..... *Ax*

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

SEAL

.....

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

..... *Flag*

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

SEAL

.....

North boundary of T. 13 N. R 2 W.

Chains

Survey commenced August 20, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896.

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

August 20: At the cor. of secs. 3-4-33 and 34 on the N. bdy. of T 13 N R 2 W. latitude 41°54' N. longitude 112°04' W. at 3h 30m p m, 7 mt, I set off 41°54' on the lat arc, 12° 05' N on the decl arc and determine with the solar a true meridian; marking a point thereof on a stone firmly set in the ground 5 chs. N. of the cor. —

At 9h 27' p m, 2 mt I observe Polaris at eastern elongation in accordance with Manual of Instruction and mark a point on the line thus determined on a stake driven in the ground 5.00 chs N of my station

August 20, 1896

August 21: at 7h 5m a m, 2 mt I lay off the azimuth of Polaris 1°40' to the west and mark the true meridian thus determined by the stone set August 20, on which the true meridian agrees with the mark determined by the solar without material difference

At 7h 12m a m, 2 mt I set off 41°54' on the lat. arc 11°51' 30" N on the decl. arc and mark a point in the true meridian determined by the solar on the stone already set 5.00 chs. N of my station; this mark agrees without material difference with the true meridian established by Polaris observation; and I therefor conclude the adjustments of the instrument are correct. —

The magnetic bearing of the true meridian at 7h 15m a m is N 17°30' W; the angle thus determined

North boundary of T13N R2W.

Chains	
	reduced by the table page 100 gives the mean mag. Va. 17°24'E.—
	I begin at the cor of secs. 3-4-33 and 34 on N bdy. of T13N R2W. which is a stone firmly set marked and witnessed as described by the surveyor general.—
	Thence I run
	West on a random line along the N. bdy of T13N R2W. setting temp 1/4 sec and sec cors. at intervals of 40,00 chs; and at 206,95 chs. the 1/4 sec cor on N. bdy of sec. 6 T13N R2W bears S. 1,20 chs dist. the same being a stone firmly set marked and witnessed as described by the surveyor general
	The falling answers to a correction of 0°20' or 48 lks. S. per mile counting from the cor. of secs. 34-33 and 34: therefor I run
	N 89°40'E on a true line bet secs. 6 and 31.
	Mountainous land
	Descending on steep slope in dense high brush
3,08	Squaretown Creek 5 lks. wide in narrow gulch 80 ft. below cor. course S.; leave brush
	Ascending to
21,00	Top of spur S. 250 ft. above creek
	Descending steep slope to
23,50	Bottom of sharp ravine 80 ft. deep course S.
	Ascending to
46,95	Set a limestone 18×10×7 ins. 12 ins. in the ground for cor of secs. 5-6-31 and 32 marked with 1 notch on W. and 5 notches on E. edges; raised a mound of stones 2 ft base 1½ ft. high W. of cor.—
	Pits impracticable
	This cor stands on steep broken S. slope 230 ft. above bottom of ravine
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber
	Mountainous land 46,95 chs—
	N 89°40'E bet. secs. 5 and 32
	On mountainous land
	Ascending on broken slope
16,55	Top of spur S. 160 ft. above cor.

North boundary of T13N R2W.

chains	
	Descending to
22,45	Bottom of ravine 160 ft. deep course S
	Ascending
28,25	Top of spur S 90 ft. high
	Descending
32,05	Bottom of sharp ravine 80 ft. deep course S
	Ascending to
39,35	Top of spur S 100 ft. high
	Descending
40,00	Set a limestone 18x12x6 ins. 12 ins in the ground for 1/4 cor. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. —
	Pits impracticable. —
43,65	Bottom of ravine 90 ft. deep course S
	Ascending to
46,75	Top of spur S 80 ft. high
	Descending
51,65	Bottom of ravine 40 ft. deep course S
	Ascending to
55,05	Top of spur 70 ft. above bottom of ravine. course S.
	Descending
59,45	Bottom of gulch 100 ft. deep course S
	Ascending
64,00	Top of slope and spur S. 110 ft. above bottom of gulch
	Thence on rolling S slope to
80,00	Set a limestone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 4-5-32 and 33 marked with 2 notches on W and 4 notches on E edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber
	Mountainous land 80,00 chs
	N. 89° 40' E bet. secs. 4 and 33
	On mountainous land
	Ascending on broken S slope
3,00	A small spring bears S 10° 30' E
13,00	Same spring bears S 12° 5' W.
27,55	Top of dividing ridge between Cache and Malad Valleys bears N. 60° W. and S. 60° E. 220 ft. above cor. and about

North boundary of T 13 N. R 2 W.

Chains	
	1400 ft above said valleys.—
	Begin descent on steep broken slope
40,00	Set a conglomerate stone 18×9×6 ins 12 ins in the grn for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft base 1½ ft. high N of cor. Pits impracticable.—
57,05	Bottom of ravine 500 ft below top of divide course S 60° E
	Cross point of spur to
61,20	Road from Malad Valley to Cache Valley bears N 55° E and S 55° W. in bottom of draw draining N E
72,90	Fence bears S.W. and N.E. at foot of mountainous slope in head of open gulch
	Leave mountainous land; descending gradually
	Enter cultivated field of Mrs. Stephen Higgins
76,40	Higgins cabin bears. S. 50 lks.
80,00	The cor. of secs. 3-4-33 and 34
	This cor. stands 800 ft below top of divide
	Land mountainous, and gradual slope
	Soil gravely wash and bowlders 2nd and 3d rate
	No timber.— Oak brush in patches
	Mountainous land 80,00 chs.—

August 21, 1896

Boundaries of T 13 N R 2 W.

Latitudes departures and closing errors.

Line designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs	chs	chs	chs	chs.
3d St. Parallel North	N 89° 55' W.	480,00	.72			480,00
West boundary	North—N 1° 0' W. N 0° 58' W—N 1° 0' W.	480,11	480,11			5,53
North "	East—N 89° 40' E	486,95	1,20		486,95	
East "	South	480,00		480,00		
Convergency					.64	
Totals			482,03 480,00	480,00	487,69 485.53	485,53
Errors in latitude and departure			2,03		2,16	

The unsurveyed portion of this township is all mountainous land excepting a portion of secs 3 and 4 which is bench land and is being cultivated.— There is no water nor timber, but all is good pasture land and should be subdivided.—

August 22, 1896 [illegible]

Retracement of West boundary of T 13 N R 2 W.

chains	
	By reference to the township plat of this Tp as furnished me I learn that the exterior boundaries as now represented will not close within the limit and it becomes necessary for me to retrace said boundaries and locate the error - Therefor
	August 22: At the established cor. of Tps. 13 and 14 N RS. 2 and 3 W. which is a stone firmly set marked and witnessed as described by the surveyor generals at 7h 32m a.m. I set off 41° 54' N on the lat. arc 11° 31' N on the decl. arc and determine a true meridian with the solar
	Thence I run
	South - bet. secs. 1 and 6 on retracement line
40,00	The 1/4 sec. cor. bears E. 87 lks. dist. being a stone firmly set marked and witnessed as described by the surveyor general.
79,87	The cor. of secs. 1-6-7 and 12 bears E. 1,40 chs dist. being a stone firmly set marked and witnessed as described by the surveyor general. -
	The course of this line is therefor S 1° 0' E
	South - bet. secs. 7 and 12 on retracement line
40,00	No 1/4 sec. cor. could be found within a radius of 3,00 chs after diligent search.
79,87	The cor. of secs. 7-12-13 and 18 bears E 1,35 chs, being a stone firmly set marked and witnessed as described by the surveyor general
	The course is therefor S 0° 58' E
	South - bet. secs. 13 and 18 on retracement line
40,00	No 1/4 sec. cor. could be found within a radius of 3,00 chs after a diligent search
80,20	The cor. of secs. 13-18-19 and 24 bears E 1,38 chs. being a stone firmly set marked and witnessed as described by the surveyor general. -
	The course of this line is therefor S 0° 59' E
	South - bet. secs. 19 and 24 on retracement line
40,00	No 1/4 sec. cor. could be found within a radius of 3,00 chs. after diligent search
80,23	The cor. of secs. 19-24-25 and 30 bears E, 1,40 chs. being a stone firmly set marked and witnessed

Retracement of West boundary T13 N R2 W.

chains	as described by the surveyor general. The course of this line is therefor S 1° 0' E. Having already discovered more than sufficient error in the original survey of N. bdy of this Tp to bring the closings within the limit and believing no benefit can come from continuing this survey I close at this cor.

August 22, 1896

Andrew P Hansen
U S Deputy Surveyor

Volume
#
R0243

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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

...ring the lines and corners described in the foregoing field notes of the survey of .....

.....

...owing 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

...os parts or portions of the .....

.....

.....

..... of the ..... base

...d ..... meridian, ... of ....., which are represented

...the foregoing field notes as having been surveyed by him and under his direction; and that said survey

...as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

...er monuments established, according to the instructions furnished by the United States Surveyor

...eral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

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R A-2 5

Final Oath of United States Deputy Surveyor.

I, ..., United States Deputy Su
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing
..... day of ....., 189 , I have well, faithfully, and truly, in
proper person, and in strict conformity with the instructions furnished by the United States
General for ....., the Manual of Surveying Instructions, and the
United States, surveyed all those parts or portions of .....
.....
.....
.....
..... of the .....
and ..... meridian, in the ..... of ....., which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sol
swear that all the corners of said survey have been established and perpetuated in strict accordance w
Manual of Surveying Instructions, and the special written instructions of the United States S
General for ..... and in the specific manner described in the field notes,
the foregoing are the original field notes of such survey; and should any fraud be detected, I will
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....
United States Deputy Surve

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 Sept. 9, 18

The foregoing field notes of the survey of the North Boundary of Township 13 North Range 2 West of the Salt Lake Base & Meridian Utah
.....
executed by Andrew J. Hanson
under his contract No. 204, dated December 30th, 1895, having
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

George W. Sim
United States Surveyor G

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

.....
United States Surveyor Gen

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BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 13 North Range No 2 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, United States Deputy Surveyor,

...ner his Contract No. 204, dated December 30, 1895

...y commenced August 21, 1896

... completed August 21, 1896

6—151

1.70.68

L 9 20

Closing 13 48

1.70-48

Names and Duties of Assistants.

E. H. Geis, Chainman or Moundman

J. L. Barnes

F. P. Davies Flagman or Axeman

6—151

BOOK A-243

INDEX DIAGRAM.

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Meanders Page

Preliminary Oaths of Assistants.

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

..... , Ch

..... , Ch

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 est- dish
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... , Moun

..... , Mou

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

..... , A

..... , A

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

SEAL

.....

.....

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

..... , Fla

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

SEAL

.....

.....

Subdivision of T13N R2W.

chains	
	Survey commenced August 21, 1896 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. – For the complete description of which I refer to survey of N. bdy. of T13N R2W. made this day. —
	From the cor. of secs. 3-4-9 and 10. T13N R2W. which is a stone firmly set marked and witnessed as described by the surveyor generals I run N 0° 2' W on a random line bet. secs. 3 and 4
4,00	set temp. 1/4 sec cor.
80,20	Intersect N. bdy. of Tp. 3,65 chs. W. of cor. of secs. 3-4-33 and 34
	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4 marked C C on S with 3 grooves on E and W. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor. –
	Pits impracticable. –
	Mrs Stephen Higgins cabin N.E. Cor. bears S 45° 41' W. 86 lks. –
	Thence I run
	In cultivated field
	Descending gradually
7,00	Bottom of spur gulch and spring branch 1 lk wide drains E
	Begin gradual ascent
9,20	Leave cultivated fields bears E and W at foot of steep slope
	Thence on mountainous land ascending
10,36	Tence bears E and W.
28,00	Top of spur 400 ft high running E. from main ridge
	Descending
40,20	Set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. –
	Pits impracticable
44,70	Spring branch 1 lk. wide drains E in bottom of gulch 160 ft below top of spur
	Begin ascent on broken slope
7,00	Top of dividing ridge between Malad Valley and Cache Valley bears N 30° W and S 25° E. 230 ft above gulch.
	Descending on broken slope to

Subdivision of T 13 N R 2 W.

chains	
80,20	The cor. of secs. 3-4-9 and 10
	Land mountainous; and gradually sloping gulch bottom
71,00 / 9,20	Soil gravely wash 2nd and 3d rate
	No timber
	Mountainous land 71,00 chs. —
	Aug. 21: At this cor. I set off 11°46'30" N on the decl. arc and at 0h 3' p m, 1 m t observe the sun on the meri the resulting lat. is 41°53' N.
	From the 1/4 sec. cor. bet. secs. 4 and 5 which is a stone firmly set marked and witnessed as described by the surveyor general. — I run
	N 0° 3' W on a random line bet. secs. 4 and 5
39,76	Intersect N. bdy. of Tp. 4,72 chs W of cor of secs. 4-5-32 and 33. —
	Set a limestone 17 x 9 x 5 ins. 11 ins in the ground for closing cor. of secs 4 and 5 marked C.C. on S with 2 groves on W and 4 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor. — Pits impracticable. —
	Thence I run
	S 0° 3' E on a true line bet secs. 4 and 5
	On mountainous land
	Descending on steep broken S slope
39,76	The 1/4 sec. cor. bet. secs. 4 and 5
	This cor. stands 370 ft below the closing cor.
	Land mountainous
	Soil gravely wash and bowlders 3d rate
	No timber; oak and maple brush in patches
	Mountainous land 39,76 chs.
	From the 1/4 sec. cor. bet. secs. 5 and 6 which is a stone firmly set marked and witnessed as described by the surveyor general. I run
	N 0° 4' W. on a random line bet secs. 5 and 6
39,92	Intersect N. bdy. of Tp. 5,11 chs. W. of cor. of secs. 5-6-31 and 32.
	Set a limestone 18 x 9 x 6 ins. 12 ins in the ground for closing cor. of secs. 5 and 6 marked C.C. on S. with 5 groves on E and 1 grove on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor.

Subdivisions of T 13 N R 2 W.

chains	Pits impracticable
	Thence I run
	S 0° 4' E on a true line bet. secs. 5 and 6
	On mountainous land
	Descending on steep broken slope to—
39,92	The 1/4 sec cor. bet secs. 5 and 6
	This cor. stands 360 ft below the closing cor.
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber
	Mountainous land 39,92 chs.—
	August 21, 1896

General Description

The small portion of this township covered by the present survey is all mountainous land; very steep broken slopes, excepting the northern and eastern part of sec. 3 which is a sloping bench and gulch bottom terminating abruptly against a steep mountain slope.

Desert entry No 2176 has been abandoned by John K Lorsle and a part of said land (Lots 1 and 2 Sec 4) is now occupied by Mrs Stephen Higgins who has a home there and about 5 acres in cultivation.

Mary Archibald and James Archibald (son) the later claimant of canceled desert entry No 1536 on N.E 1/4 of S W 1/4 sec. 3 have a home in sec 3 which bears from the 1/4 sec. cor on N. bdy sec. 3 S 20° W 10,00 chs. dist they have jointly about 80 acres under cultivation being all „dry farming" or without irrigation.—

The remainder of the land covered by this survey furnishes good pasture but has no timber nor water.—

There are no quarries nor mines; nor any indication of mineral veins of any kind.—

Andrew P Hanson
U S Deputy Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and

king the lines and corners described in the foregoing field notes of the survey of _____

_____

y 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

parts or portions of the _____

_____

_____

_____ of the _____ base

meridian, _____ of _____, which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor al for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

ribed and sworn to before me this _____
ay 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 _____ 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 Sept. 9, 1897

The foregoing field notes of the survey of The subdivision of Tp 13 North Range 2 West of the Salt Lake Base & Meridian Utah

executed by Andrew T. Hanson under his contract No. 204, dated December 30th, 1896, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
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-243

FIELD NOTES

OF THE SURVEY OF

South Boundary

of

Township No 15 North Range No 3 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, United States Deputy Surveyor,

for his Contract No. 204, dated December 30, 1895

was commenced August 23, 1896

was completed August 23, 1896

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4-3-15-90

5.35

BOOK A-243

Names and Duties of Assistants.

E. H. Giers Chainmaker or Mounedness

J. S. Barnes " " "

F. P. Davies Flagman or Axman

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BOOK A-243

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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 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 _____

_____, *Chai*

_____, *Chair*

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 establish corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *M*

_____, *M*

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 establi and other duties, according to instructions given us, to the best of our skill and ability, i _____

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

SEAL

I, _____, do solemnly swear that perform the duties of flagman according to instructions given me, to the best of my sk survey of _____

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

SEAL

South Boundary of T 15 N R 3 W.

chains

Survey commenced August 23, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. —

The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896

Having tested the adjustments of the instrument on a true meridian established by Polaris observation August 21; before commencing the survey of N. bdy of T 13 N R 2 W. reference to which is hereby made, and found them correct, and being confident they still remain so, I consider it unnecessary to repeat the test at this time. —

August 23: At the established cor. of secs. 3-4-33 and 34 on S. bdy of T. 15 N R 3 W. latitude 41°59' N longitude 112°11' W. at 8h 4m a.m., 1 m ♁ I set off 41°59' N on the lat. arc 11°10' N on the decl. arc and determine a true meridian with the solar. —

The magnetic bearing of the true meridian at 8h 10m a.m. is N. 17°30' W: the angle thus determined reduced by the table page 100 gives mean mag. decl. 17°24' E

I begin at the cor of secs 3-4-33 and 34 which is a stone firmly set marked and witnessed as described by the surveyor general.

Thence I run

East on a random line along the S. bdy of Tp. 15 N R 3 W. setting temp. 1/4 sec and sec. cors. at intervals of 40,00 chs.: and at 255,90 chs. fall 5,35 chs. S of the cor. of Tps. 14 and 15 N Rs. 2 and 3 W which is a stone firmly set marked and witnessed as described by the surveyor general. —

Set a temporary unmarked cor. at this place (for marking of permanent cor. see notes of W. bdy. T 14 N R 2 W.)

Thence I run

chains	
	West bet. sec. 1 and 36
	On mountainous land
	Ascending on broken N. E. slope
40,00	Set a sandstone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
53,50	Top of spur N. 500 ft. above temp. cor.
	Descending to
69,50	Bottom of gulch 90 ft. deep course N. E.
	Ascending on rolling slope
75,00	Top of spur S.; thence on gradual descent
80,00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 35 and 36 marked with 1 notch on E. and 6 notches on W. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	This cor. stands 800 ft. above the temp. closing cor. —
	Land mountainous
	Soil gravely and rocky 3rd rate
	No timber
	Mountainous land 80,00 chs
	West bet. secs. 2 and 35
	On mountainous land
	Descending to
2,25	Saddle at head of two gulch draining N. and S. —
	Ascending on broken surface
36,90	Top of a main ridge and divide of water shed between Cache and Malad valleys bears N. W. and S. E. 500 ft. above last sec. cor.
	Begin descent on steep rocky slope
40,00	Set a limestone 18 x 11 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable
77,30	Bottom of narrow gulch 500 ft. below divide

South boundary of T. 15 N. R. 3 W.

chains	course S. 60° W.
	Ascending to
8,00	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 34 and 35: marked with 2 notches on E. and 4 notches on W. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	This cor. stands on steep slope: 50 ft. above bottom of gulch. —
	Land mountainous very rugged
	Soil rocky and gravelly 4th rate
	Timber a few scrubby cedar and mahogany. —
	Mountainous land 80,00 chs. —
	August 23: The weather being cloudy during the noon hour I was unable to observe the sun on the meridian
	West bet. secs. 3 and 34
	On mountainous land
	Ascending to
6,00	Top of sharp rocky ridge 125 ft. above cor. bears N. E. and S. W.
	Descending on rocky precipitous slope
23,55	Spring branch 3 ft. wide in bottom of narrow gulch 650 ft. below top of ridge, course S. 60° W.
	Ascending to
38,90	Top of spur S. 60° W. 270 ft. above gulch.
	Descending
40,00	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
47,55	Bottom of gulch 130 ft. deep course S. W.
	Ascending
54,20	Top of ridge bears S. 60° W. 100 ft. high
	Descending on rolling slope N. to gulch
56,50	Foot of mountain bears nearly N. and S. at 1 ch. S. of mouth of gulch draining S. 80° W.

South Boundary of T 15 N. R. 3 W.

chains 800 ft below last sec. cor.
Descending on broken bench about 200 ft above Valley to
95,90 The cor. of secs. 3-4-33 and 34
Land mountainous
Soil gravely and rocky 3rd and 4th rate
Timber scrubby cedar, scattering
Mountainous land 95,90 chs. —
August 23, 1896.

Boundaries of T 15 N. R. 3 W.
Latitudes Departures and closing Errors

Line designated	True bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs	chs	chs	chs.	chs
West boundary	S. 1° 30' E	81,95		81,95	2.12	
South "	N 88° 30' E	240,00	6.30		239,91	
" "	East	255,90			255,90	
East "	North	52,89	52,89			
Utah-Idaho "	S. 89° 15' W.	28,66		0.36		28,66
" " "	S. 88° 45' W.	79,56		1,75		79,54
" " "	N 72° 14' W.	82,64	25,22			78,70
" " "	West	310,00				310,00
Convergency						.65
Totals			84,41 84,06	84,06	497,93 497,55	497,55
Errors in lat. and dep.			-0,35		0,38	

This township is all rough mountainous land valuable only for summer pasture. — It is watered by a few small springs; the soil is gravely and rocky. — There is no timber of any value. — The township should be subdivided. —

Andrew P. Sanson
U.S. Dep. Surveyor

August 24, 1896

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

king the lines and corners described in the foregoing field notes of the survey of .....

.....

wing 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

e parts or portions of the .....

.....

.....

..... of the ..... base

..... meridian, ... of ....., which are represented

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

scribed 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 ..... line 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 Sept. 9, 1897

The foregoing field notes of the survey of The South Boundary of Township 15 North Range 3 West of the Salt Lake Base & Meridian Utah

executed by Andrew P. Hansen under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Sears

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-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 3 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Johnson, United States Deputy Surveyor,

r his Contract No. 204, dated December 30, 1895

ey commenced August 23, 1896

ey completed August 23, 1896

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1.38 76 ✓

56.40 ✓

75.30 ✓

Names and Duties of Assistants.

E. H. Giers Chainman or Monmouth

J. L. Barnes " " "

F. P. Davies Flagman or Ames

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BOOK. A-243

INDEX DIAGRAM.

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Meanders Page .....

Preliminary Oaths of Assistants.

WE, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain 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 measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey _____

_____, *Ch*

_____, *Chai*

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 establis corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Mo*

_____, *Mo*

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 and other duties, according to instructions given us, to the best of our skill and ability, in the _____

_____

_____

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

_____

_____

SEAL

I, _____, do solemnly swear that I will perform the duties of flagman according to instructions given me, to the best of my skill and survey of _____

_____

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

_____

_____

SEAL

Subdivision of T 15 N R 3 W

Chains	
	Survey commenced August 23, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment.- For further description of which reference is hereby made to the survey of S. bdy. of this Tp.
	At the cor of secs. 1-2-35 and 36 on S. bdy of Tp. 15 N R 3 W. at 2h 35m p m, I on T I set off 41° 59' on the lat. arc. 11° 4' N. on the decl. arc and determined a true meridian with the solar.-
	Thence I run
	N 0° 1' W. bet. secs. 35 and 36
	On mountainous land.
	Ascending on broken surface and W. slope
33,35	Top of spur N.W. 250 ft. above cor.
	Begin steep descent
34,85	Enter dense brush and brake
40,00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.-
	Pits impracticable.-
51,56	Intersect Utah Idaho boundary at 28,20 chs. N 88° 45' E from 5.7 mile post.-
	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor of secs. 35 and 36 marked C.C. W on S. face with 1 groove on E and 6 grooves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor.- Pits impracticable.-
	This cor. stands in dense brush 250 ft. below top of spur
	Land mountainous
	Soil gravelly and rocky 3rd rate
	No timber
	Mountainous land 51,56 chs.-
	N 0° 2' W. bet. secs. 34 and 35
	On mountainous land.
	Ascending steep rocky slope

Chains

6,10 Top of sharp rocky ridge running S.W. from main divide

Descending to

16,75 Bottom of narrow gulch 200 ft below sp. course S. 60° W.

Begin ascent on steep broken slope

40,00 Set a limestone 18 x 8 x 5 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable

42,50 Top of main divide and water shed bet. Cache and Malad Valleys bears N.W. and S.E. 600 ft. above cor. of secs. 34 and 35

Begin descent on rolling broken slope

67,20 Intersect Utah Idaho boundary at 28,20 chs. S 72° 14' E of 58 mile tree.-

Set a limestone 18 x 9 x 7 ins 12 ins in the ground for closing cor. of secs. 34 and 35 - marked C C C on S. with 2 grooves on E and 4 grooves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. - Pits impracticable

Land mountainous.

Soil gravely and rocky 4th rate

Timber, a few scrubby cedar

Mountainous land 67,20 chs.-

Retracement, T 15 N R 3 W. - Subdivision

From the cor. of secs. 3-4-33 and 34 on S. bdy. of Tp. as hereinbefore described I run

North - on a retracement line bet. secs. 33 and 34.

40,00 A diligent search was made for the 1/4 sec. cor. as described by the surveyor general but no trace of it could be found.-

75,50 Intersect Utah Idaho boundary 38 lks. east of the closing cor. of secs. 33 and 34 which is a stone firmly set marked

chains and witnessed as described by the surveyor general.-
The course of this line is therefor N 0°16'W
August 23, 1896

General Description

This township is all mountainous land broken and rugged.- The soil is gravely and rocky and is only valuable for summer grazing.—
There is no timber of any value only a few scrubby cedar.-
There is no quarries nor mines within the township nor indications of mineral deposites of any kind
The township is watered by a few small springs.—
There are no settlers within this portion of the township.—

Andrew P Hansen
U.S. Dep. Surveyor

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

wing 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
e parts or portions of the .....

.....

.....

..... of the ..... base

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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

.....

.....

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

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

United States Deputy Su...

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, Sept. 9....., 1...

The foregoing field notes of the survey of the subdivisions Township 15 North Range 3 West of the Utah Lake Base and Meridian.....

.....

.....

.....

.....

executed by ..... Andrew P. Hansen

under his contract No. 204..., dated ..... December 30th ....., 1895, having critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

George W. Lee

United States Surveyor Gene...

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

.....

United States Surveyor Ge...

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BOOK A-243

No. 3. B.

FIELD NOTES

OF THE ~~SURVEY~~ Retracement OF

Utah Idaho Boundary Line

through

Ranges 3, 4, 5 and 14 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

ler his Contract No. 204, dated December 30, 1895

vey commenced August 23, 1896

vey completed September 24, 1896

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10. 29. 08.

Names and Duties of Assistants.

E. H. Giers Chainman or Mon

J. L. Barn " "

F. P. Davies Flagman or Ass

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BOOK A-243

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

..... *Chai*

..... *Ch*

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 .....

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

..... *Axm*

..... *Axm*

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 .....

..... *Fla*

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

SEAL

6—151

Retracement of Utah Idaho Boundary

Chains	
	Survey commenced August 23, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment for description of which, and testing of adjustments, reference is hereby made to the field notes of S bdy. of Tp. 15 N. R. 3 W. dated August 23, 1896. —
	August 23; at 2h 20m p.m., I set off 42° 0' on the lat. arc 11° 4' N, on the decl. arc and determine a true meridian with the solar at the closing cor. of secs. 31 and 36 on E bdy of Tp 15 N R 3 W. which is a stone firmly set marked and witnessed as described by the surveyor general. — Whence the 5·6 mile post Utah Idaho boundary which can be plainly seen from my station bears S. 89° 15' W. Thence I run S 89° 15' W.
28.66	Intersect 5·6 mile post Utah Idaho Boundary, firmly set and properly marked
	West on the 5·7th mile
79.54	Falls 1.75 chs N. of the 5·7th mile post Utah Idaho boundary. Therefor the course of this line is S 88° 46' W. and not as stated by the surveyor general. —
	West on the 5·8th mile
78.70	Falls 23.22 chs. S. of the 5·8 mile tree Utah Idaho boundary. Therefor the course of this line is N 72° 14' W. and not as stated by the surveyor General Note: This mile of line is over a very steep and broken high mountain, and in the original survey was probably made by travers and the error made in calculating the same. —

Retracement of Utah Idaho Boundary

chains	
	West on the 59.¼ mile
69,08	The closing cor. of secs. 33 and 34 being a stone firmly set marked and witnessed as described by the surveyor general
79,75	The 59 mile post Utah Idaho boundary. The course of this line is therefor West

August 23, 1896

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PAGE

Retracement of Utah Idaho Boundary

chains	
	Survey commenced September 6, 1896 and executed with a W & L E Gurley light mountain Transit: for further description of which and testing of adjustments reference is hereby made to the field notes of W. bdy. T. 15 N. R. 4 W. surveyed Sep. 3, 1896
	September 6, 1896 at 2h 8m p m, l m t I set off 42° 0' on the lat. arc 6° 1' N. on the decl. arc and determine a true meridian with the solar. at mile post 62 Utah Idaho boundary
	Thence I run
	West on the 63d mile
79,68	Intersect 63 mile post Utah Idaho boundary Therefor the course of this line is West as stated by the surveyor general. -
	West on the 64th mile
79,45	Fall 30 lks. S of 64 mile post Utah Idaho boundary Therefor the course of this line is N 89° 47' W and not as stated by the surveyor general. -
	West on the 65th mile
79,38	Fall 33 lks. S of 65 mile post Utah Idaho boundary Therefor the course of this line is N 89° 46' W and not as stated by the surveyor general. -
	September 6, 1896
	September 7: at 8h 0' a m, l m t I set off 42° 0' on the lat. arc. 5° 45' N on the decl. arc and determine a true meridian with the solar at mile post 65 Utah Idaho boundary
	Thence I run
	West on the 66th mile
78,80	Fall 40 lks. S of 66 mile post Therefor the course of this line is N 89° 43' W.
	West on the 67th mile
69,73	Fall 56 lks. N. of 66 mile 70 chs. mound of stones.
79,73	To end of mile on course S 89° 36' W.

Retracement of Utah Idaho boundary

chains	
	The bearing of this line is therefor S 89° 36' W.
	West on the 68th mile
79,87	Fall 54 lks. N. of 68 mile mound of stone
	Therefor the bearing of this line is S 89° 37' W.
	September 7, 1896
	September 11: At 9h 48m a m, 2 m t I set off 42° 0' on the lat. are 4° 12' N. on the decl. are and determine a true meridian with the solar at mile mound 68 Utah Idaho boundary
	Thence I run
	West on the 69th mile
80,57	Intersect 69 mile mound Utah Idaho boundary
	Therefore the course of this line is West.
	West on the 70th mile
80,78	Intersect 70 mile mound Utah Idaho boundary
	Therefor the course of this line is West.—
	West on the 71st mile
80,72	Intersect 71 mile mound Utah Idaho boundary
	Therefore the course of this line is West
	West on the 72nd mile
80,70	Intersect 72 mile mound Utah Idaho boundary
	Therefor the course of this line is West.—
	West on the 73d mile
80,25	Fall 30 lks N. of 73 mile mound Utah Idaho boundary
	Therefore the course of this line is S. 89° 47' W.
	West on the 74th mile
75,45	Fall 31 lks. N. of 73 miles 75 chs. monument Utah Idaho boundary.—
	Therefore the course of this line is S. 89° 47' W
	September 11, 1896
	September 24: From 120 mile post Utah Idaho boundary I run
	West on the 121st mile

Retracement of Utah Idaho boundary

chains	
81,30	Fall 63 chs N. of 121 mile post Utah Idaho boundary Therefore the course of this line is S 89° 33' W.
81,59	West on the 122nd mile Fall 1,57 chs. N. of 122 mile post Utah Idaho boundary Therefore the course of this line is S 88° 53' W.
80,26	West on the 123rd mile Fall 7,21 chs N. of 123 mile post Utah Idaho boundary. – Therefore the course of this line is S 89° 08' W.
80,40	West on the 124th mile Fall 1,12 chs. N. of 124 mile post Utah Idaho boundary. – Therefore the course of this line is S. 89° 12' W. –
79,54	West on the 125th mile Fall 1.73 chs. N of 125 mile post Utah Idaho boundary. — Therefore the course of this line is S 88° 45' W. September 24. 1895
	The original monuments on this boundary line are in all cases in a good state of preservation and agree with the descriptions as furnished by the surveyor general. — Andrew P Hansen U S Dep Surveyor. –

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PAGE

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., 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 the 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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376-377
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Final Oath of United States Deputy Surveyor.

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

.....

.....

.....

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

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

.....

United States Deputy Su...

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 Sept. 9, 1...

The foregoing field notes of the survey of the Utah-Idaho Bound Line Township 15 North Ranges 4-5 & 14 W. of the Salt Lake Base & Meridian, Ut...

.....

.....

.....

.....

executed by Andrew P. Ha...

under his contract No. 204, dated December ..., 1895, hav... critically examined, and the necessary corrections and explanations made, the said field notes, ... surveys they describe, are hereby approved.

George ... ...

United States Surveyor G...

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

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United States Surveyor Gen...

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4—679.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

West Boundary

of

Township No. 14 North Range No. 2 West

Of the Salt Lake Basement Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

under his Contract No. 204, dated December 30, 1895

Survey commenced August 24, 1896

Survey completed August 24, 1896

West Bdy # C. 35.05
D 3.45
Closing 7.30
Retained D Bdy 1-79.87

Names and Duties of Assistants.

E S H Giers Chainman or Monument

J L Barnes " " "

F P Davies Flagman or Pkg m

6—151

BOOK A-243

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

..... *Chain*

..... *Chai*

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 establishm
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... *Moun*

..... *Mound*

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

..... *A*

..... *A*

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

.....

SEAL

.....

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

..... *F*

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

.....

SEAL

.....

West boundary of T 14 N R 2 W

chains

Survey commenced August 24, 1896 and executed with a W. & L. E. Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.—

The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896.—

Having tested the adjustments of the instrument on a true meridian established by observation on Polaris August 21, at the commencement of survey of N. bdy. of T. 13 N. R 2 W., reference to which is hereby made, and found them correct and being confident they still remain so I consider it unnecessary to repeat the test at this time.—

August 24: at 9h 5m a.m., o.m.t. at the 1/4 sec cor. bet. secs. 19 and 24 on W. bdy. of T 14 N R 2 W. in latitude 41°56' N. longitude 112°08' W. I set off 41°56' on the lat. arc: 10°48' N. on the decl arc and determine a true meridian with the solar.—

The magnetic bearing of the true meridian at 9h 10m a.m. is N. 17°29' W.: the angle thus determined reduced by the table page 100 gives mean mag. decl. 17°25' E.

I begin at the 1/4 sec. cor. already described which is a stone firmly set marked and witnessed as described by the surveyor general.—

Thence I run

North on a random line on W. bdy. of T.

West boundary of T. 14 N. R. 2 W.

chains	
	14 N. R 2 W. setting temp. 1/4 sec and sec. cor's at intervals of 40.00 chs. and at 27.80 chs. intersect S. bdy of T. 15 N. R. 3 W. 7.30 chs. W. of the temp. unmarked Tp cor. set by me August 23, 1896.
	Set a limestone 18 x 10 x 9 ins. 12 ins. in the ground for closing cor. of Tps. 14 N Rs 2 and 3 W. marked C.C. on S face with 6 grooves on S.E. and W. faces. : raised a mound of stones 2 ft. base 1½ ft. high S. of cor. — Pits impracticable. —
	And in place of the unmarked temp. Tp. cor., I set a limestone 24 x 9 x 6 ins. 18 ins. in the ground for cor. of Tps. 15 N. R 3 W. marked with 6 notches on N. and W. edges, raised a mound of stones 2 ft. base 1½ ft high N. W. of cor. — Pits impracticable. —
	I obliterate marks on W. edge of the orig. cor. of Tps 14 and 15 N. Rs 2 and 3 W.
	Thence from the closing cor. of Tp 14 N Rs 2 and 3 W. as above described I run
	South bet. secs. 1 and 6
	On mountainous land
	Ascending on rolling broken slope
17.60	Top of ridge 250 ft. above cor. bears N.W. and S.E.
	Begin descent
34.40	Entered dense aspen brake and brush, cons. N.W. and S.E.
38.50	Set a limestone 17 x 11 x 7 ins. 11 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
38.90	Spring branch 2 lks wide course S E in bottom of gulch 250 ft. deep.
	Begin ascent
39.65	Top of spur E. 50 ft. high
	Descending to
46.85	Bottom of gulch 130 ft. below spur course E
	Ascending
63.65	Leave dense brush and brake

West boundary of T. 14 N. R. 2 W.

chains	
54,60	Top of ridge sloping E to junction of gulches
	Descending to
65,60	Enter dense brush
68,70	Wood road in bottom of gulch 200 ft. deep course N 75° E
	Ascending to
78,50	Set a limestone 18 x 10 x 9 ins. 12 ins. in the ground for cor. of secs. 1-6-7 and 12 marked with 1 notch on N. and 5 notches on S. edges: raised a mound of stones 2 ft. high 1½ ft. base W. of cor. —
	Pits impracticable
	Land mountainous
	Soil gravely wash and boulders 3rd rate
	No timber
	Mountainous land 75,05 chs. —
	South bet. secs. 7 and 12
	On mountainous land
	Ascending in dense brush
13,35	Top of ridge bears E. and W. 250 ft. high
	Descending to
20,15	Bottom of gulch 140 ft. deep course E
	Begin ascent
40,00	Set a limestone 17 x 8 x 6 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	This cor. stands on top of a spur 400 ft. above bottom of gulch, and sloping E to canon
	Descending
44,30	Bottom of narrow ravine 55 ft. deep draining E
60,50	Top of spur E. 100 ft. high
	Descending to
59,48	Bottom of gulch 200 ft. deep course E
	Ascending on steep rocky slope to
71,00	Top of rocky spur. E. 250 ft above gulch

West boundary of T. 14 N. R. 2 W.

chains	
	Descending
79,40	Bottom of gulch 200 ft. deep draining E. and N. E.
	Ascending
80,00	Set a limestone 18 x 9 x 7 ins. 12 ins. in the ground for cor. of secs. 7-12-13 and 18 marked with 2 notches on N. and 4 notches on S. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable. —
	Land mountainous very broken
	Soil gravelly and rocky 3rd rate
	No timber
	Mountainous land 80,00 chs. —
	South - bet. secs. 13 and 18
	On mountainous land
	Ascending on steep rocky slope
18,00	Top of ridge sloping E. from main divide
	Descending
32,30	Head of gulch draining E. 200 ft. deep
	Ascending W
40,00	Set a limestone 18 x 8 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	Thence on steep broken slope
65,00	Top of main ridge and water shed bet. Bache and Malad Valley's bears N. 15° W and S 15° E.
	Descending on broken, steep slope
80,00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for cor. of secs. 13-18-19 and 24 marked with 3 notches on N and S edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	Land mountainous very broken
	Soil gravelly and rocky 3rd and 4th rate
	Timber scrubby cedar scattering

West boundary of T 14 N R. 2 W.

39,00	Mountainous land 80,00 chs. —
	South bet. secs. 19 and 24 On mountainous land Descending steep broken slope
29,75	Bottom of gulch 300 ft. deep course N 35° W.
	Ascending to
40,00	The 1/4 sec. cor. bet secs. 19 and 24 as hereinbefore described. — Land mountainous very broken Rock rocky 4 ft rate Timber scrubby cedar scattering Mountainous land 40,00 chs. — August 24, 1896
	Retracement of N. bdy T. 14 N R 2 W. By examining the plat as furnished me, of Tp. 14 N R 2 W. I learn that the exterior boundaries of said Tp will not close within the statutory limit of error. and it therefor becomes necessary to retrace at least a portion of said boundaries; therefor From the cor. of Tps. 14 and 15 N. R 2 W. as hereinbefore described I run East on a retracement line bet. secs. 6 and 31 At 39,96 chs. the 1/4 sec cor. bears N. 18 lks. and at 79,77 the cor. of secs. 5-6-31 and 32 bears N. 94 lks. being a stone firmly set and properly marked and witnessed as described by the surveyor general. — The course of this line is therefor S 89° 20' W. and the distance 79,77 chs. —
	East on a retracement line bet. secs. 5 and 32 At 40,00 chs. no 1/4 sec. cor. could be found after diligent search and at

chains 80,10 the cor. of secs. 4-5-32 and 33 bears N. 99 lks. being a stone firmly set marked and witnessed as described by the surveyor general.—
The course of this line is therefor S. 89° 18' W. and the distance 80,10 chs.—
As the boundaries will not close within the established limit and no benefit can come from further retracement I discontinue the same at this cor.—

August 24, 1896

Boundaries of T. 14 N. R 2 W.
Latitudes departures and closing errors.

Line designated	True bearing	Distance chs	Latitudes N chs	Latitudes S chs	Departures E chs	Departures W chs
South boundary	East	280,00			280,00	
" "	N 89° 40' E	206,95	1.20		206,95	
East "	North	480,00	480,00			
North "	N 86° 34' W.	79,86	4.78			79,71
" "	West	80,00				80,00
" "	S. 89° 46' W.	157,50		0,66		157,50
" "	S 89° 18' W.	80,10		0,94		80,10
" "	S 89° 20' W	79,77		0,99		79,77
" "	West	7,30				7,30
West "	South	483,85		483,85		
Convergency						0,65
Totals			485,98	486,44	486,95	485,03
				485,98	485,03	
Error in lat. and def.				.46	1.92	

The unsurveyed portion of this township is mountainous land with the exception of a few small patches of rolling bench land which is very fertile and suited for cultivation there is no timber nor water of any consequence within the township. The township should be subdivided.—

Andrew P. Sanford
U. S. Dep. Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

ing the lines and corners described in the foregoing field notes of the survey of .....

.....

ng 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

arts or portions of the .....

.....

.....

..... of the ..... base

..... meridian, ... of ....., which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey

on in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

monuments established, according to the instructions furnished by the United States Surveyor

l for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

bed and sworn to before me this .....

of ....., 189

SEAL

.....

.....

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392-393
BCAMC

Final Oath of United States Deputy Surveyor.

I, ..., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ....., bearing date of the United States Surveyor General for ....., 189 , I have well, faithfully, and truly, in my own ..... day of ..... 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 ..... and ..... meridian, in the ..... of ....., which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance with Manual of Surveying Instructions, and the special written instructions of the United States Su General for ..... and in the specific manner described in the field notes, the foregoing are the original field notes of such survey; and should any fraud be detected, I will the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....
United States Deputy Su

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 Sept

The foregoing field notes of the survey of the West & North Bound Township 14 North Range 2 West of the Salt Lake Meridian

executed by Andrew P Hanson under his contract No 204, dated December 30th critically examined, and the necessary corrections and explanations made, the said surveys they describe, are hereby approved.

George
United State

I certify that the foregoing transcript of the field notes of the above-describ ....., has been correctly copied from the original not

.....
United St

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4—679.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No. 14 North Range No. 2 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson United States Deputy Surveyor,

his Contract No. 204, dated December 30, 1895

commenced August 25, 1896

completed August 28, 1896

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+ 13.70 89 ✓
4.45 ✓ 13 [illegible]
Clay 3.50 ✓
Retirement 2.43.68 ✓

BOOK A-243

Names and Duties of Assistants.

E S H Giers Chainsman or Moundsm.

J L Barnes " " "

F P Davies Flagman or Agman

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

.....; *C*

.....; *Ch*

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 esta
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

.....; *Mou*

.....; *Moun*

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

.....; *A*

.....; *A*

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

.....

SEAL

.....

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

.....; *F*

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

SEAL

Subdivision of T. 14 N. R. 2 W.

Chains

Survey commenced August 25, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake, was found correct and, approved by the Surveyor General for Utah April 24, 1896. —

Preliminary to commencing this survey I go to the cor. of secs. 3-4-33 and 34 on N. bdy of T 13 N R 2 W. as described by me in the survey of said line, and having examined the adjustments of the instrument, I set off 41°54' on the lat. arc. 10°29' N. on the decl. arc and at 7h 30m a m, 1 mt determine with the solar a true meridian which I compare with the true meridian established at this place on August 21, 1896 by observation on Polaris and marked on a stone set in the ground 5,00 chs N. of the station. —

There being no material difference between the two meridians thus determined I conclude the adjustments of the instrument are correct. —

At the cor. of secs. — 32 and 33 on S. bdy. of Tp. 14 N R 2 W. set by me August 21, 1896; At 8h 15m a m, 1 mt August 25; I set off 41°54' on the lat. arc 10°28' N. on the decl. arc and determine a true meridian with the solar. —

The magnetic bearing of the true meridian at 8h 20m a m is N 17°30' W.; the angle thus determined reduced by the table page 100 gives mean mag. decl. 17°25' E. —

Thence I run

N 0°1' W. bet. secs. 32 and 33

On mountainous land

ascending on steep broken slope

16,40 Top of dividing ridge between Malad Valley and

Subdivision of T 14 N R 2 W.

chains	
	Cache Valley bears N. 75° W and S 75° E 330 ft above cor.
	Begin descent
22,60	Head of ravine 125 ft below top of ridge drains E
	Ascending to
27,95	Top of spur E 100 ft. high
	Descending
33,50	Bottom of gulch 150 ft below spur drains E
	Ascending
38,60	Top of spur 120 ft high running E.
	Descending
40,00	Set a limestone rock 18x8x5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor
	Pits impracticable
46,70	Bottom of gulch 170 ft deep drains E
	Ascend to
50,00	Top of spur E. 65 ft above gulch
	Descending
53,72	Bottom of gulch 120 ft deep drains E
	Ascending
63,00	Top of spur E. 165 ft. above bottom of gulch
	Descending to
66,65	Bottom of gulch 80 ft. deep drains E
	Ascending
70,90	Top of spur E 100 ft. above gulch
	Begin descent
78,50	Drag road E and W. in bottom of gulch draining E
	Enter dense brush
80,00	Set a limestone rock 18x10x9 ins. 12 ins in the ground for cor. of secs. 28-29-32 and 33 marked with 1 notch on S and 4 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — No trace of old cor: Pits impracticable
	Land Mountainous Very broken
	Soil gravely wash and boulders 3rd rate
	No timber: many large stumps, showing denuded forest
	Dense brush in patches
	Mountainous land 80,00 chs.

Being unable to find any trace of a former established cor. of secs. 28-29-32 and 33 I go to the 1/4 sec cor.

Subdivision of T 14 N. R. 2 W.

chains	
	bet. secs. 28 and 33 which is a stone firmly set marked and witnessed as described by the surveyor general. -
	Thence I run
	S 89° 40' W. on a random line bet. secs. 28 and 33
40,18	Intersect N. and S. line 5 lks S of cor. of secs. 28-29-32 and 33
	Thence I run
	N 89° 44' E on a true line bet. secs. 28 and 33
	On mountainous land
	Descending gradually in bottom of gulch in heavy brush
21,20	Leave bottom of gulch turns N 75° E. and brush
40,18	The 1/4 sec. cor. bet secs 28 and 33
	Land mountainous; rolling foothills
	Soil gravely wash and boulders. 2nd and 3d rate
	No timber
	Mountainous land 40,18 chs. -
	N 0° 1' W. on a random line bet. secs 28 and 29
40,00	set temp 1/4 sec. cor.
80,00	Intersect E. and W. line 20 lks E. of cor. of secs. 20 21-28 and 29 which is a stone firmly set marked and witnessed as described by the surveyor general This cor. stands in the fence cor. thence fence runs N. and E.
	Thence I run
	S 0° 10' E on a true line bet. secs. 28 and 29
	On rolling bench land. crossing lane and road to
0,50	N.W. cor. Thos Buttars fence; thence on E. side of fence. -
	Enter dense undergrowth -
1,77	Dry wash course S 80° E.
7,85	Log Cabin of Thos Buttars bears E. 10 chs -
10,55	Leave dense undergrowth -
	Enter cultivated land bears E and W.; fence bears W 40 lks.
14,50	Leave cultivated field bears E and W.
	Enter dense undergrowth -
	Begin gradual ascent
36,60	Top of low spur E

Subdivisions of T 14 N R 2 W

chains	
	Descending to
38,40	Bottom of wash 25 ft. deep course E
	Ascending to
40,00	Set limestone rock 18 x 11 x 7 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	This cor. stands in fence line running E and W. 95 lks E of fence running N. and S.
41,00	Dan Buttars cabin bears east 38 chs.
43,50	Begin ascent on mountainous land, course N. W. and S. E.
58,70	Bottom of ravine 100 ft deep course E
71,00	Top of spur E 140 ft. high
	Descending to
79,90	Dry wash in bottom of gulch course E
80,00	The cor. of secs. 28-29-32 and 33
	Land rolling bench and mountainous
	Soil gravely wash 2nd and 3rd rate
	No timber
	Dense undergrowth of wild cherry and thorn
	Mountainous land and dense undergrowth
	75,55 chs. —
	August 25: at this cor. I set off 10°25' on the deel arc and at 0h 2m p m, T.m.T. observe the sun on the meridian: the resulting lat. is 41°55' N —
	From the cor. of secs. 31 and 32 on S bdy. of Tp. I run
	N 0°2' W. bet. secs. 31 and 32
	On mountainous land
	Ascending on steep rocky slope
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	Thence in rocky ledges and cliffs
71,30	Top of main divide and watershed bet. Cache and Malad Valleys 1200 ft above sec. cor. bears N. 25° W. and S. 25° E.

chains 80,00	Descending on steep rocky slope to Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable This cor stands on steep E slope 150 ft. below top of divide — Land mountainous very rugged Soil rocky and gravely 4th rate Timber a few scrubby cedar scattering Mountainous land 80,00 chs. —
	N 89° 40' E on a random line bet. secs. 29 and 32
40,00	Set temp 1/4 sec. cor.
80,00	Intersect N and S. line 30 lks. N of cor of secs. 28-29-32 and 33 Thence I run S 89° 53' W on a true line bet. secs. 29 and 32. On mountainous land Ascending in dense brush in bottom of gulch
8,50	Dry wash, course N 85° E: leave brush and bottom of gulch and ascend steep slope
34,00	Cross spur N 65° E and ascend on E and N slope
40,00	Set a limestone 18 x 10 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
70,00	Ascent becomes steep and rocky on E slope at head of gulch
80,00	The cor. of secs. 29-30-31 and 32 This cor. stands 1400 ft. above the cor of secs 28-29-32 and 33 Land mountainous very rugged Soil gravely and rocky 4th rate Timber a few pine trees scattering Mountainous land 80,00 chs. —

chains	
	S 87° 40' W. on a random line bet. secs. 30 and 31
46,95	A diligent search was made for the 1/4 sec. cor. but no trace of it could be found within a radius of 3 chs.: I therefore continue my line
87,10	Intersect N. bdy. of Tp. at 46 lks. S. of cor. of secs. 25-30-31 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general.-
	Thence I run
	East on a true line bet. secs. 30 and 31.
	On mountainous lands
	Ascending on steep rocky slope
43,50	Top of rocky ridge bears N. and S.: sliping S. to Valley
	Descending
47,10	Set a limestone 18 x 9 x 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1 1/2 ft. high N. of cor. — Pits impracticable
63,20	Head of Spearstown Creek 3 lks wide in bottom of narrow rocky canon 400 ft. deep course S.
	Ascending on rocky slope
82,50	Top of main ridge and watershed bet. Creek and Malad Valley bears N 20° W and S 20° E 550 ft. above creek
	Descending to
87,10	The cor. of secs. 29-30-31 and 32.
	Lands mountainous very rugged
	Soil rocky 4th rate
	Timber: a few scrubby cedar scattering
	Mountainous land 87,10 chs. —
	August 25, 1896.
	N 0° 2' W. bet. secs. 29 and 30
	On mountainous lands
	On steep E. slope ascending to
8,50	Top of rocky spur E.
	Begin descent on rolling E. slope to
30,00	Descent becomes steep on N. E. slope
40,00	Set a limst. 1/4 sec. cor. thence I run W. 7,00 chs.

chains	and make diligent search for the 1/4 sec cor. which should be found here, but no trace of said cor. could be discovered within a radius of 4 chs., I therefor return to the temp 1/4 sec. cor. at 40,00 chs (mentioned [illegible])
	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
51,30	Bottom of gulch and dry wash 650 ft. below sec. cor. drains N 75° E
	Begin ascent on steep broken slope
78,00	Top of spur E from main ridge, and 300 ft above wash
	Descending gradually to
80,00	Set a limestone 18 x 9 x 7 ins. 12 ins. in the ground for cor. of secs. 19-20-29 and 30 marked with 2 notches on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. — (mentioned [illegible])
	Land mountainous very rugged
	Soil rocky and gravelly 3rd and 4th rate
	No timber
	Mountainous land 80,00 chs. —
	August 26: at 9h 32m a.m., 2m t I set off 41° 56' on the lat. arc 10° 6' N. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 19-20-29 and 30
	Thence I run
	N 89° 53' E on a random line bet. secs. 20 and 29
40,00	Set temp. 1/4 sec. cor.
79,76	Intersect N and S line 16 lks. N of cor. of secs. 20-21-28 and 29
	Thence I run
	West on a true line bet. secs. 20 and 29
	On sloping rolling bench
	In dense undergrowth
79,5	Enter bottom of wash 8 ft. deep from W. turns

Subdivision of T14 N R 2 W.

chains	S.E.
12,00	Leave wash, turns N.W.
16,00	Foot of mountains bears nearly N. and S.
	Leave dense undergrowth, and ascend
	On mountainous land
19,00	Top of spur N.E. and beginning of descent
22,24	Bottom of gulch and dry wash course N.E.
30,00	Cabin of Morris Thompson bears N. 27°25' E. 19,75 chs
	Ascending to
39,88	Set a limestone 18 x 11 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft high N. of cor. - Pits impracticable
	This cor. stands on top of long spur running N. 85° E from main divide.
79,76	The cor. of secs. 19-20-29 and 30
	This cor. stands 900 ft. above the cor of secs. 20-21-28 and 29
	Land mountainous and sloping bench
	Soil gravely wash 2nd and 3rd rate
	No timber. -
	Dense undergrowth of oak and thorn
	Mountainous land and dense undergrowth
	79,76 chs. —
	West on a random line bet secs. 19 and 30
40,00	Set temp. 1/4 sec. cor.
86,82	Intersect W. bdy of Tp. 25 lks. N. of cor. of secs. 19-24-25 and 30 which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence Crow
	N. 89°49' E on a true line bet. secs. 19 and 30
	On mountainous land
	Descending on rocky broken slope to
24,50	Stream 2 lks wide in bottom of gulch 300 ft deep course N 25° W.
	Ascending
42,00	Top of main divide and watershed bet Cache and Malad Valley's bears N 20° W and S 20° E 400 ft above stream

Subdivision of T 14 N. R 2 W.

chains	
	Descending on steep broken slope
46.82	Set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
	August 26: at this cor. I set off 10°3'30" N on the deel. arc and at 0h 1m p.m., 7 m.t. observe the sun on the meridian the resulting lat. is 41°56'.
	Note: At 40,00 chs on this line I make diligent search for the 1/4 sec. cor as described by the surveyor general but no trace of said cor. could be found within a radius of 3 chs. — (see note at end of notes)
	Thence descending on broken slope to —
80,00	A diligent search was made for the sec. cor. as described by the surveyor general but no trace of it could be found within a radius of 4 chs. —
86,82	The cor. of secs. 19-20-29 and 30
	This cor stands 500 ft. below the main divide
	Land mountainous
	Soil gravely and rocky 4th rate
	Timber, a few scrubby pinion and cedar scattering. —
	Mountainous land 86,82 chs. —
	N 0°2' W. bet. secs. 19 and 20
	On mountainous land
	Descending on rolling E. slope
11,10	Bottom of gulch 100 ft. deep and dry wash course N 80° E
	Ascending to —
33,00	Top of spur E. 250 ft. high
	Begin descent
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
46,00	Dry wash in bottom of gulch 200 ft. deep

Subdivision of T 14 N R 2 W.

chains	course E
	Ascending to
69,50	Top of spur S 75° E 450 ft. high
	Descending steep slope to
76,90	Bottom of gulch 160 ft. deep course S. 80° E.
	Ascending rocky slope to
80,00	Set a limestone 24 x 10 x 7 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: raised a mound of stones 2 ft base 1½ ft high W. of cor. —
	Pits impracticable
	This cor. stands 110 ft above bottom of gulch on steep rocky slope
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	No timber
	Mountainous land 80,00 chs. —
	East on a random line bet. secs. 17 and 20
39,92	The ¼ sec. cor. bet. secs. bears S. 7 lks. being a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	N 89° 54' W. on a true line bet. W ½ of secs. 17 and 20
	On mountainous land
	Ascending on steep mountain side
36,40	Top of spur from N W turns nearly E. 700 ft. above ¼ sec cor.
	Descending to
39,92	The cor. of secs. 17-18-19 and 20
	Land mountainous very rugged
	Soil gravely and rocky 3rd rate
	No timber
	Mountainous land 39,92 chs. -
	S 89° 49' W. on a random line bet. secs. 18 and 19
40,00	Set temp ¼ sec. cor.
86,90	Intersect W. bdy of Tp. 33 lks S of cor. of

Subdivision of T. 14 N. R. 2 W.

Chains	
	secs. 13-18-19 and 24
	Thence I run
	S 89° 57' E on a true line bet. secs. 18 and 19
	On mountainous lands
	Ascending to
9,50	Top of main ridge and divide of watershed bet. Cache and Malad Valleys bears N. 30° W. and S. 30° E.
	Descending on rolling slope
32,00	North of gulch 300 ft below ridge draining. N 15° E
	Thence over broken surface, ascending gradually to
46,90	Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable. —
67,75	Top of ridge bears N.W. and S.E. 350 ft. high
	Descending steep slope to
80,20	Bottom of gulch 260 ft. below ridge course S. 65° E.
	Ascending on rocky slope
86,90	The cor. of secs. 17-18-19 and 20
	Lands mountainous
	Soil gravelly and rocky 3rd rate
	No timber
	Mountainous land 86,90 chs. —
	August 26, 1896

	August 27 I run
	N 0° 2' W. on a random line bet secs. 17 and 18
40,00	Set temp 1/4 sec cor.
80,30	Intersect S. bdy. of sec. 8 at 15 lks. E of cor. of secs. 7-8-17 and 18 which is a stone firmly set marked and witnessed as described by the surveyor general
	Thence I run
	S 0° 8' E on a true line bet secs. 17 and 18

chains	
	On mountainous land
	Ascending on broken slope
14,20	Top of spur & 160 ft. above cor.
22,40	Descending
	Wood road in bottom of canon 190 ft. deep
	bears E. and W.
22,90	Dry wash draining E.
	Begin ascent
39,30	Top of canon 300 ft. above wash; thence on
	rolling E slope
40,30	Set a limestone 18×12×7 ins. 12 ins. in
	the ground for 1/4 sec. cor. marked 1/4
	on W. face; raised a mound of stones
	2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
41,80	Top of spur E.
	Descending on rolling slope
55,90	Bottom of gulch 150 ft. deep course E
	Ascending
57,60	Top of sharp rocky spur E. 50 ft high
	Descending
61,00	Bottom of gulch E
	Begin ascent
77,50	Top of spur. 320 ft. above gulch, course S 60° E
	Descending steep rocky slope to
80,30	The cor. of secs. 17-18-19 and 20
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	No timber
	Mountainous land 80,30 chs. —

	From the cor. of secs. 7-8-17 and 18 I run
	N 89° 57' W. on a random line bet. secs. 7
	and 18
40,00	Set temp. 1/4 sec. cor.
87,20	Intersect W. bdy of Tp. 51 chs N. of cor. of secs.
	7-12-13 and 18
	Thence I run
	N. 89° 41' E. on a true line bet. secs. 7 and 18
	On mountainous land
	On broken N. slope

Subdivision of T 14 N R 2 W.

Chains	
36,00	Head of gulch draining N.
	Begin ascent
47,20	Set a limestone 17×9×6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable
50,00	Top of ridge, course nearly N. and S 300 ft high
	Descending on broken N E slope
57,50	Head of gulch draining N.
87,20	The cor. of secs. 7-8-17 and 18
	This cor stands 600 ft below the cor. on W. bdy.
	Land mountainous
	Soil gravelly and rocky 3rd rate
	No timber: dense brush in patches
	Mountainous land 87,20 chs. —
	August 27: at this cor. I set off 9°42'30" N on the decl. arc and at 0h 1' p m, 1 m t observe the sun on the meridian; the resulting lat. is 41°58' N.
	Note: from this cor the cabin of Emma Dahle bears S. 43°10' E. 53,00 chs. —
	At the cor. of secs. 5-6-7 and 8 which is a stone firmly set marked and witnessed as described by the surveyor general, at 2h 10m p m, 1 m t August 27, I set off 41° 58' 30" on the lat. arc 9° 41' N on the decl. arc and determine a true meridian with the solar
	Thence, knowing the line will fall outside of limit I run
	West on a random line bet. secs. 6 and 7
40,00	Set temp. 1/4 sec. cor. —
87,34	Intersect W. bdy of Tp. 3,50 chs. N. of cor. of secs. 1-6-7 and 12
	Set a limestone 17×7×5 ins. 11 ins in the ground for closing cor. of secs. 6 and 7 marked CC on E. with 1 grove on N. and 5 groves on S. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. —
	And obliterate markings on cor. of secs 1-6-7 and 12 pertaining to secs. 6 and 7
	Thence I run
	East on a true line bet. secs. 6 and 7
	On mountainous land

chains	
	Descending on broken slope N.
3,65	Bottom of ravine 50 ft. deep course N
	Ascending W
12,85	Top of spur N.
	Begin descent
16,35	Head of gulch draining N
	Ascending W
20,35	Top of spur N: descending on N & slope W
46,45	Bottom of gulch draining S 30° E
	Begin ascent
47,34	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft high N. of cor. — Pits impracticable
57,85	Top of spur S E: thence descending on S E slope
87,03	Fence runs N and S. at foot of mountains
87,34	The cor. of secs. 5-6-7 and 8.
	This cor. stands 800 ft. below the cor. on W. bdy.
	Land mountainous
	Soil gravelly wash and boulders 3rd rate
	No timber: dense brush in patches
	Mountainous land 87,34 chs. —
	August 27, 1896

Retracement in T. 14 N. R. 2 W.

From cor. of secs 5-6-7 and 8 I run North on a retracement line bet secs. 5 and 6

40,26	The 1/4 sec. cor. bears W. 70 chs.
80,90	The cor. of secs. 5-6-31 and 32.

The course of this line is therefor North as stated by the surveyor general but the distance 80,90 chs. —

August 27, 1896.

General Description

The portions of this township included in the present survey is all mountainous land with the exception of a few small patches of bench land which can be

cultivated; the soil being gravelly but very fertile :— The mountainous part is rocky soil and fit only for summer pasture. —

Large stumps on the mountains slopes indicate a once heavy growth of fine timber which has been entirely destroyed by the settlers and a few scrubby trees only remain scattered about. —

There are no quarries nor mines nor indications of mineral of any kind

There is no water excepting a few small springs. —

Emma Dable applicant for survey of this Tp is located in N.W. ¼ of sec. 19 — has a cabin, stable, and about 20 acres under cultivation. —

Thos Buttars also applicant for survey of this Tp. is located in N.W ¼ of sec. 28 with about the same improvements as the above. —

Christine Thompson, applicant for survey is located with Minnie Thompson in S.E. ¼ of sec. 20 : improvements consist of a cabin and corrals. — The land is used for summer dairying. —

Henry Seeger I was unable to locate within the Tp. —

Dan. Buttars is located on S.W. ¼ of sec. 28 ; the improvements consist of a cabin, shed, and about 40 acres under cultivation. —

A settler by name of Ricks has a cabin on N.E. ¼ of sec. 6 near the N.E. cor. ; the cabin was deserted during the time of my survey. —

All the above named settlers depend on farming without irrigation, and a fair crop of wheat can be raised nearly every season. —

Andrew P Hansen
U S Dep. Surveyor

In division of T. [illegible] L.W.

Note:- Regarding my resurvey of lines bet. secs. 30-31 and 19-30 which differ from the partial survey of these lines, as furnished by the surveyor general, I would state that my reason so doing was to make the survey uniform and throw the lotting against the W. bdy. of Tp.—

The ground covered is exceedingly rough, rocky, and of high altitude and no part of the land has been entered, settled or occupied in any way nor can it be for other than summer sheepwalk.—

Andrew P Hanson

U.S. Dep. Surveyor

From the cor. of secs. 5-6-7 and 8 as hereinbefore described I run

South on a retracement line bet. secs. 7 and 8

40,00 A carefull search was made for the 1/4 sec. cor. as described by the surveyor general, but no trace of it could be found.—

82,60 Intersect the cor. of secs. 7-8-17 and 18 as hereinbefore described.—

The course of this line is therefor north as stated by the surveyor general

Andrew P Hanson

U.S. Dep. Surveyor

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and

rking the lines and corners described in the foregoing field notes of the survey of _____

_____

owing 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

ose parts or portions of the _____

_____

_____

_____ of the _____ base

d _____ meridian, _____ of _____, which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

er monuments established, according to the instructions furnished by the United States Surveyor

neral for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

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

.....

.....

.....

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

and ..... meridian, in the ..... of ....., which are represented foregoing field notes as having been surveyed by me, and under my direction; and I do further sol... swear that all the corners of said survey have been established and perpetuated in strict accordance w... Manual of Surveying Instructions, and the special written instructions of the United States S... General for ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will 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, Sept. 9, 1...

The foregoing field notes of the survey of The subdivisions of Township 14 North Range 2 West of the Salt Lake Base & Meridian, #

.....

.....

.....

.....

.....

executed by Andrew P. Hanson under his contract No. 204, dated December 30th, 1895, havin... critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

George W. Snow
United States Surveyor G...

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

.....
United States Surveyor Gen...

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4—679.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivisions Lines

of

Township No 14 North Range No 3 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, United States Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895

vey commenced August 29, 1896

vey completed September 1, 1896

6—151

H 18 65.81 ✓

L 1 45.00 ✓ 20-30-81

Cl. 27.02 ✓

Cr. 2.62.00 ✓

Rob. 5.01.20 ✓ 7 63.20

BOOK A-243

Names and Duties of Assistants.

E. S. Giers Chainman or Mound man

J. L. Barnes " " "

F. P. Davies Flagman or Cyn...

6—151

BOOK A-243

INDEX DIAGRAM.

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

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Meanders Page .....

Preliminary Oaths of Assistants.

We, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain 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
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
..... *Chai.*
..... *Chain.*

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 establ
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
..... *M*
..... *Mou*

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 establishmer
and other duties, according to instructions given us, to the best of our skill and ability, in t
.....

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

SEAL

I, ..., do solemnly swear that I wi
perform the duties of flagman according to instructions given me, to the best of my skill
survey of .....

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

SEAL

Subdivision of T 14 S R 3 W

chains	Survey commenced August 29, 1896 and executed with a W & L E Gurley light mountain transit with solar attachment. — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. — The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896. — Having tested the adjustments of the instrument August 25, 1896 on a true meridian established by observation on Polaris at the cor. of secs. 3-4-33 and 34 on S. bdy of Tp 13 S R 2 W., at the commencement of subdivision of Tp 14 S. R 2 W and found them satisfactory and being confident they still so remain I consider it unnecessary to repeat the test now. — August 29; — At the cor. of secs. 1-2-35 and 36 on S. bdy. of Tp. 14 S R 3 W., at 7h 30m a.m, 7 m T I set off 41° 54' on the lat. and 9° 4' 30" N on the decl. arc and determine a true meridian with the solar. — The magnetic bearing of the true meridian at 7h 30m a.m. is N 17° 32' W.; the angle thus determined reduced by the table page 100 gives mean mag. decl. 17° 26' E
	I begin at the cor. above described which is a stone firmly set marked and witnessed as described by the surveyor general. — Thence I run N 0° 1' W. bet secs. 35 and 36 On mountainous land

Subdivision of Tp. 14 N. R. 3 W.

chains	
	Ascending on broken slope S W
40,00	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
52,80	Dry wash in bottom ravine 100 ft. deep course W.
61,00	Top of spur W. 700 ft. above sec. cor.
	Descending to
62,75	Dry wash in bottom of gulch 90 ft. deep course N 75° W.
	Ascending on steep slope
72,00	Top of spur W.
	Descending to
75,15	Bottom of gulch 120 ft. deep course S 70° W
	Ascending
80,00	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for cor. of secs 25 and 36 marked with 1 notch on S and E edges; whence
	A cedar stump 4 ft. high 14 ins. diam. bears N 75° E 7 lks. dist. blazed and scribed T 14 N R 3 W. S. 25 B.T.
	No other trees within limit; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	This cor. stands 900 ft. above sec cor. on S. bdy
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	Timber: a few scrubby cedar, scattering on last 20,00 chs.
	Mountainous land 80,00 chs.
	N 89° 57' E on a random line bet. secs. 25 and 36
40,00	Set temp. 1/4 sec. cor.
80,32	Intersect E bdy of Tp. 42 lks N of cor. of secs. 25-30-31 and 36 as hereinbefore described
	Thence I run
	N 89° 45' W. on a true line bet. secs. 25

chains	
	and 36.
	On mountainous land
	Ascending on rocky broken slope S E
38,70	Top of spur S 650 ft. above cor.
	Begin descent
40,16	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face: raised a mound of stones 2 ft. base 1½ ft. high N of cor. —
	Pits impracticable
	Descending on broken N slope, in scattering cedar timber
80,32	The cor. of secs. 25 and 36.
	This cor stands 700 ft below top of spur
	Land mountainous
	Soil rocky and gravelly 4th rate
	Timber, scrubby cedar scattering
	Mountainous land 80,32 chs.
	S 89° 57' W. on a random line bet. secs. 26 and 35
40,00	Set temp 1/4 sec. cor.
80,16	Intersect N and S line 132 chs S. of cor. of secs. 26-27-34 and 35 which is a stone firmly set marked and witnessed as described by the surveyor general
	From which cor. I run
	East on a resurvey line bet. secs. 26 and 36
35,00	Search was made for the witness cor. at this place but no trace of it could be found, and this being the end of old survey, hence I continue my line east
	Ascending gradually on rolling beech land
	In dense undergrowth
40,00	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable
43,00	Foot of mountain bear nearly N and S

Subdivision of T. 14 N. R. 3 W.

chains	
	Leave dense undergrowth —
	Begin ascent on mountainous land
5,00	Top of spur S. 60° W 150 ft above 1/4 sec. cor.
	Descending to —
60,70	Bottom of gulch 100 ft. deep course S 65° W
	ascending on steep slope, in scattering
	cedar timber to —
80,76	Intersect N. and S. line 1,25 chs. N. 0° 1' W. of
	cor. of secs. 25 and 36
45.76 / 35.00	Set a limestone 17 x 9 x 5 ins. 11 ins. in the
	ground for closing cor. of secs. 26 and 35
	marked C.C. on W. with 1 grove on S. and 1 —
	5 groves on W. faces: raised a mound of
	stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable —
	Land Mountainous and sloping bench
	Soil gravely wash 3rd rate
	Timber: scrubby cedar scattering
	Mountainous land 45,76 chs. —
	August 29: at this cor. I set off 8° 59' 30"
	N on the decl. arc and at 0h 1m p.m. I m. to
	observe the sun on the meridian, the
	resulting lat. is 41° 55'

	N. 0° 1' W. bet. secs. 25 and 26
	On mountainous land
	Ascending to —
1,10	Top of spur W.
	Begin descent
1,25	Closing cor. for sec 26 and 35 —
7,70	Bottom of gulch 130 ft. deep course S 75° W.
	Ascending
18,55	Top of spur S 75° W. 250 ft. high
	Descending
35,65	Bottom of gulch 300 ft. deep course W
	Ascending to —
40,00	Set a limestone 18 x 8 x 5 ins. 12 ins. in the
	ground for 1/4 sec. cor. marked 1/4 on W.
	face: raised a mound of stones 2 ft.
	base 1½ ft. high W. of cor. —
	Pits impracticable

Subdivision of T. 14 N. R. 3 W.

Chains	
	This cor. stands on lip of a spur running W. 200 ft. high
	Descending to
45,45	Bottom of narrow ravine 130 ft. deep
	Ascending to
55,00	Top of spur W.
	Begin descent
61,35	Bottom of ravine 125 ft. deep course W.
	Ascending gradually on rolling W. slope
79,50	Top of limestone crag 40 ft. high
80,00	Set a limestone 24 x 10 x 6 ins 18 ins in a mound of stones 2½ ft. base on rocky surface for cor. of secs. 24 and 25 marked with 1 notch on E and 2 notches on S. edges
	This cor. stands on lip of a limestone crag having precipitous face on the N. E. and W.
	Land mountainous very broken slope
	Soil gravelly wash and boulders 3rd rate
	Timber: sparsely cedar scattering
	Mountainous land 80.00 chs. —

	S 89° 45' E, on a random line between 24 and 25 —
40,00	Set temp 1/4 sec. cor.
80,40	Intersect E. bdy. of Tp. 10 bet. N. of cor. of secs. 19-24-25 and 30 as hereinbefore described
	Planted I. mon
	N 89° 41' W. on a true line bet. secs. 24 and 25
	On mountainous land; on lip of rocky ridge
5,50	Top of ridge running nearly N and S.
	Begin steep rocky descent
24,90	Bottom of ravine course S 65° W.
40,20	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable
73,15	Bottom of gulch 1000 ft below sec. cor. course N 60° W.

Subdivision of T. 14 N. R. 3 W.

Chains	
	ascending on N.E. cliffs to-
80,00	Foot of perpendicular cliff 65 ft. high course N. and S.
80,40	The cor. of secs. 24 and 25
	Land mountainous very rugged
	soil rocky and gravelly 4th rate
	Timber: scrubby cedar scattering
	Mountainous land 80,40 chs. —
	West on a random line bet. secs 23 and 26
40,00	No 1/4 sec. cor could be found therefor
	set temp 1/4 sec. cor.
81,34	Intersect N. and S. line 2,70 chs S. of the cor. of secs. 22-23-26 and 27 which is a stone firmly set marked and witnessed as described by the surveyor general; from whence I run
	East on a resurvey line bet. secs. 23 and 26
40,00	A diligent search was made for the 1/4 sec cor. as described by the surveyor general but no trace of it could be found, therefore set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable
55,00	End of old survey
	Thence ascending gradually on bench land
	In dense undergrowth —
75,00	Foot of mountains bears N. 25° E and S. 25° W.
	Leave dense undergrowth
	Begin ascent in mountainous land
80,30	Foot of rocky cliff; ended mouth of canon
81,34	Intersect N. and S. line 2,70 chs. N. 0° 14' W. of cor. of secs. 24 and 25
	set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for closing cor. of secs. 23 and 26 marked C.C. on W. face with 2 grooves on S and 5 grooves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable

Subdivision of T 14 N R 3 W.

Chains	
	Land sloping bench and mountainous soil gravely wash and boulders 2nd and 3rd rate
	No timber.
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth and mountainous land
	26,34 chs. —
	August 29, 1896
	August 30. Drew
	N. 0° 1' W. bet. secs. 23 and 24
	On mountainous land
	Descending precipitous cliff
1,50	Foot of cliff 95 ft below cor.: enter mouth of canon
2,25	Dry wash course N 75° W.: begin ascent
2,70	The closing cor. for secs. 23 and 26. —
3,00	Top of slope: thence along base of mountain on broken slope
36,50	Begin ascent
40,00	Set a limestone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
42,30	Top of spur W. 70 ft. high
	Descending to
45,45	Dry wash in bottom of canon course N. 80° W.
	Ascending on steep broken slope
65,65	Top of spur W. 300 ft above wash
	Descending to
78,83	Dry wash in bottom of canon 275 ft. deep course S 70° W.
79,00	Begin ascent
80,00	Set a limestone 25 x 10 x 5 ins. 18 ins. in a mound of stones 2½ ft. base for cor. of secs. 13-14-23 and 24 marked with 3 notches on S. and 1 notch on E. edges: thence a cedar stump 14 ins. diam. bears S. 41° W. 8 lks. distant blazed and marked

chains	T. 14 N. R. 3 W. S 23 B.T.
	No other trees within limit
	This cor stands on a narrow shelf
	projecting from a nearly perpendicular
	cliff facing S. and about 8 ft. above gro
	Land mountainous
	Soil rocky and gravelly 4th rate
	Timber, a few scrubby cedar scatter
	Mountainous land 80.00 chs.
	S 89° 41' E on a random line bet. secs
	13 and 24
40.00	Set limp. 1/4 sec. cor.
80.16	Intersect E. bdy of Tp. 32 lks. S. of cor of
	secs. 13-18-19 and 24
	Thence Orun
	N 89° 55' W. on a true line bet. secs. 13
	and 24.
	On mountainous land
	Descending on steep slope in cedar timber
14.10	Bottom of narrow gulch 300 ft. below cor.
	and stream 3 lks wide, course N. 30° W.
	Ascending on rolling slope to
33.60	Top of spur N. 30° W.
	Begin descent
40.08	Set a limestone 18 x 7 x 6 ins. 12 ins. in
	the ground for 1/4 sec. cor. marked 1/4 on
	N. face: raised a mound of stones 2 ft.
	base 1½ ft. high N. of cor. Pits impracti
	No trees within limit
78.85	Bottom of canon gulch and dry wash cro
	S. 75° W. 900 ft below sec cor.
	Ascending to
80.16	The cor. of secs. 13-14-23 and 24
	Land mountainous
	Soil gravelly and rocky 3rd and 4th rate
	Timber, scrubby cedar scattering
	Mountainous land 80.16 chs.
	N 0° 1' W. bet. secs 13 and 14
	On mountainous land.

Subdivision of T 14 & R 3 W.

Chains	
	Ascending in rocky cliffs.
15,50	Top of spur S 75° W. 300 ft. above cor
	Begin descent
33,70	Bottom gulch 230 ft. deep course S 75° W.
	Ascending to
40,00	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
45,00	Top of spur 250 ft. high course S 75° W.
	Descending
54,85	Bottom of canon 180 ft. deep course W.
	Ascending to
69,00	Top of spur 320 ft. high course S 75° W
	Begin gradual descent on broken slope
80,00	Set a limestone 18 x 7 x 6 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: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	This cor. stands in the bottom of a gully draining W. and 600 ft. above the cor. of secs. 13-14-23 and 24
	Land mountainous, very broken
	Soil gravely and rocky 3rd and 4th rate
	Timber, scrubby cedar scattering
	Mountainous land 80,00 chs
	August 30: The weather being cloudy during the noon hour I could obtain no observation on the sun while on the meridian

	S 89° 55' E on a random line bet. secs 12 and 13
4,00	Set limf. 1/4 sec. cor.
79,75	Intersect E. bdy. of Tp. 12 lks. S. of cor. of secs 7-12-13 and 18
	Thence I run
	West on a true line bet. secs. 12 and 13 on mountainous land

Subdivision of T 14 N. R 3 W.

Chains	
	Ascending in head of gulch
3,70	Gulch turns S.W: ascending on steep rocky slope to
17,00	Top of spur S. 350 ft. above cor.
	Thence over broken rocky slope descendi gradually to
35,00	North end of ridge sloping N. 25° W.
	Begin steep descent
39,89	Set a limestone 18 x 7 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable —
79,78	The cor. of secs. 11-12-13 and 14
	This cor. stands 660 ft. below ridge
	Land mountainous very rugged
	Soil gravely and rocky 3rd and 4th rate
	Timber, scrubby cedar scattering
	Mountainous land 79,78 chs. —
	August 30: At 3h 20m p.m, l.m.t I set off 41°58' on the lat. arc 8°35'30" N on the decl arc, and ——— determine a true meridian with the solar at the cor. of secs. 11-12-13 and 14
	Thence I run
	N 0°1' W. bet. secs. 11 and 12
	On mountainous land
	ascending in scattering cedar timber
17,50	Top of spur S 75° W.
	Descending to
32,07	Bottom of gulch 250 ft. deep and dry wash course S.W.
	Ascending
40,00	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
57,75	Top of slope in saddle running E and W bet. two ridges, and divide of w.

Subdivision of T. 14 N. R. 3 W.

chains	
	of cache and Malad Valley's, 500 ft. above sec. cor.
	Descending on broken east slope
	Leave scattering timber; enter brush
80,00	Set a limestone 18 x 9 x 8 ins. 12 ins. in the ground for cor. of secs. 1-2-11 and 12 marked with - 5 notches on S. and 1 notch on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Land Mountainous very rugged
	Soil gravely and rocky 4th rate
	Timber, scrubby cedar. scattering
	Mountainous land 80,00 chs. —
	August 30, 1896
	August 31. I run
	East on a random line bet. secs. 1 and 12.
40,00	Set temp 1/4 sec. cor.
79,90	Intersect E. bdy. of Tp. 23 lks S. of cor. of secs. 1-6-7 and 12
	Thence I run
	S. 89° 50' W. on a true line bet. secs. 1 and 12
	Ascending gradually on N. slope in brush
	On mountainous land
23,00	Head of ravine draining N. E.
	Begin steep ascent on N. E slope
39,95	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. —
	Pits impracticable
55,00	N. end of main ridge of mountains breaking to the north - 670 ft. above sec. cor.
	Begin descent on N W. slope
68,15	Bottom of gulch 240 ft deep course N 15° E
	Ascending to
79,90	The cor of secs 1-2-11 and 12
	This cor. stands 150 ft above gulch
	Land mountainous
	Soil gravely wash and bowlders 3rd rate

Subdivision of T 14 N R 3 W.

Chains	
	No timber: dense brush and undergrowth. Mountainous land 79,90 chs
	August 31: at 9h 18m a m, 2 mt I set 41° 58' 30" on the lat. arc 18° 19' N. on the decl. arc and determine with the solar a true meridian at the cor. of secs 1-2-11 and 12
	Thence I run
	N 0° 1' W. on a random line bet. secs. 1 and 2
40,00	set temp 1/4 sec. cor.
79.16	Intersect N. bdy. of Tp. at 7,68 chs W. of cor. of secs. 35 and 36
	Set a limestone 17 x 9 x 8 ins. 11 ins in the ground for closing cor. of secs. 1 and 2 marked C.C. on S face with 1 groove on E and 5 groves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. Pits impracticable. —
	Thence I run
	S 0° 1' E on a true line bet. secs. 1 and 2
	On mountainous land
	Ascending gradually in rolling surface
13,25	Top of slope bears E. and W.
18,00	Descending on S E slope in dense brush
28,65	Bottom of hollow course E. 120 ft. deep
	Ascending on broken E. slope
39,16	Set a quartzite stone 18 x 12 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
79,16	The cor. of secs. 1-2-11 and 12
	Land mountainous
	Soil gravely wash and bowlders 3rd rate
	No timber; dense brush and brake nearly the entire distance
	Mountainous land 79,16 chs. —
	From cor. of secs. 13-14-23 and 24 I run

Subdivision of T. 14 N. R. 3 W.

chains	
	West bet. secs. 14 and 23, on section line baseline
	On mountainous land
	Ascending on broken S slope
7,00	Top of spur S W. 100 ft. above cor.
	Begin descent on W. slope
18,00	Foot of mountains bears N 30° W and S. 30° E
	Leave mountainous land; and begin
	gradual descent on rolling bench land
	In dense undergrowth —
41,00	Set a limestone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable. —
80,00	Set a limestone 18 x 9 x 8 ins. 12 ins. in the ground for S.W. cor. of sec. 14 marked with 1 notch on E. edge: raised a mound of stones 2 ft. base 1½ ft. high N. E. of cor.
	Pits impracticable. —
	Land mountainous and sloping bench
	Soil gravelly wash and boulders 3rd rate
	Timber, a few scrubby cedar scattering
	on mountainous slope. —
	Dense undergrowth of thorn, brush and
	weeds. —
	Mountainous land and dense
	undergrowth 80,00 chs. —
	From the cor. of secs. 15-16-21 and 22 which
	is a stone firmly set marked and
	witnessed as described by the surveyor
	general I run
	East on retracement line bet. secs. 15
	and 22
40,20	The 1/4 sec. cor. being a stone marked 1/4
	on S face, without mound
75,00	End of old survey, where a diligent
	search was made for the witness cor. but
	no trace of the same can be found
	I therefor continue the line: over gently
	sloping bench land

chains	In dense undergrowth
82,08	Intersect N. and S. line 2,24 chs. North of
	of sec. 14
7.08 / 75.00	Set a limestone 18 x 7 x 5 ins. 12 ins. in the
	ground for closing cor. of secs. 15 and 23
	marked c.c. on W. face with 3 grooves on S.
	and 4 grooves on W. faces: raised a mound of
	stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Land sloping bench
	Soil gravely wash with many boulders 3rd rate
	No timber.
	Dense undergrowth of thorn brush and weeds
	Dense undergrowth 7,08 chs. —
	From cor. of secs. 22-23-26 and 27 as heretofore
	described I run
	North on a retracement line bet. secs 22 and 23
4,00	A diligent search was made for the ¼ sec.
	cor. but it could not be found
7,00	E. side of old survey, where search was made
	for a witness cor. but no trace of it could
	be found; I therefor continue my line
	On rolling bench land
	In dense undergrowth
80,00	Intersect S. bdy. of sec. 15. 1,60 chs. W. of the
	closing cor. of secs. 15 and 23
	Set a limestone 18 x 9 x 5 ins. 12 ins. in the
	ground for closing cor. of secs. 22 and 23
	marked C.C. on S. face with 2 grooves on S. and
	3 grooves on S. faces: raised a mound of
	stones 2 ft. base 1½ ft. high S. of cor.
	Pits impracticable
	Land rolling bench
	Soil gravely wash with many boulders
	3rd rate
	No timber
	Dense undergrowth of thorn and weeds
	Dense undergrowth 3,00 chs. —
	From the S.W. cor. of sec. 14 I run

Subdivision of T. 14 N. R. 3 W.

chains	
	N. 0° 2' W. bet. secs. 14 and 15
	Ascending gradually on sloping bench land
	In dense undergrowth.
2,24	The closing cor. of secs 15 and 23
16,71	Dry wash course W.
40,00	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
52,20	Wood road from Canon course W.
61,10	Dry wash in ravine 25 ft. deep course S 75° W
73,20	Begin descent
75,55	Bottom of ravine 65 ft. deep and dry wash course W.
	Ascending W
78,00	Top of bench; slope W.
	Descending
80,00	Set a limestone 18 x 11 x 9 ins. 12 ins. in the ground for cor of secs. 11 and 14 marked with 2 notches on E and 4 notches on S. edges raised a mound of stones 2 ft. base 1½ ft high E of cor. - Pits impracticable
	Land gradually sloping bench
	Soil gravely wash and boulders 3rd rate
	No timber
	Dense undergrowth of brush and weeds
	Dense undergrowth 80,00 chs. —

	East 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 S of cor. of secs 11-12-13 and 14
	Thence I run
	S 89° 55' W. on a trace line bet. secs. 11 and 14
	On mountainous land
	Descending along bottom of draw.
29,40	Bottom of gulch 300 ft below cor. course S 60° W
	Ascending W
40,00	Set ~~set~~ a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft base 1½ ft. high N. of cor. —

Subdivision of T. 14 N. R. 3 W.

chains	
	Pits impracticable.—
41,80	Top of Spur S. 70° W.
	Begin descent on rocky precipitous slope
45,60	Foot of — "
	150 ft below its top: thence on steep N. slope
	Descending to
60,25	Foot of mountains on S. side of short gulch draining W., course N.W. and S.E.
	Leave mountainous land.
	Enter sloping bench land, and begin gr[illegible] descent
	In dense undergrowth—
80,00	The cor. of secs. 11 and 14
	Land mountainous and sloping bench
	Soil gravely wash and bowlders on bench, gravel and rocky on mountainous part— 3rd rate
	Timber; scrubby cedar on mountainous part scattering
	Dense undergrowth of thorn and weeds
	Mountainous land and dense undergrowth
	80,00 chs.—
	August 31/1896
	September 1: From the cor. of secs. 9-10-15 and 16 which is a stone firmly set marks and witnessed as described by the surv[illegible] general. I run
	East on a retracement line bet. secs 10 and 15
40,00	A diligent search was made for the ¼ sec cor but it could not be found
70,00	End of old survey, where I make a careful search for a witness cor. but no trace of it could be found, I therefor continue the line
	Ascending on sloping bench land.
	In dense undergrowth
78,00	Begin ascent on break course N W and S E
83,00	Top of break 100 ft. high; enter sloping bench
83,60	Intersect W. bdy. of sec. 11. 1,80 chs N.0°2'W. of cor of secs. 11 and 14

Subdivision of T. 14 N. R. 3 W.

chains	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for closing cor. of secs. 10 and 15 marked C.O. on W. face with 4 grooves on S. and 4 grooves on W. faces: raised a mound of stones 2 ft base 1½ ft. high W. of cor. Pits impracticable. —
	Land sloping broken bench
	Soil gravely wash and boulders 3rd rate
	No timber
	Dense undergrowth of thorn and weeds
	Dense undergrowth — 13.60 chs. —
	From the cor. of secs. 11 and 14 I run N 0° 2' W. bet. secs. 10 and 11
	Cr. Mountainous land
	Descending W
1,00	Dry wash in ravine 30 ft. deep course S W.: begin ascent
1,50	The closing cor. of secs. 10 and 15
3,70	Top of spur W. 40 ft. high
	Thence over broken rolling bench W
12,00	Dry wash in gulch 60 ft. deep course S 30° W.
	Ascending gradually
28,25	Foot of main mountain slope course N.W. and S.E.
	Begin ascent on steep rocky slope
40,00	Set a limestone 18 x 7 x 6 ins. 12 ins in the ground for sec. cor. marked 14 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
53,00	Top of slope and spur S. 75° W. 650 ft. above sec. cor.
	Descending W
64,70	Bottom of gulch course S 60° W. 140 ft. deep
	Ascending rocky slope
69,70	Top of spur W. 130 ft. above gulch
72,90	Begin descent on steep N. slope
80,00	Set a limestone 18 x 10 x 9 ins. 12 ins. in the ground for cor. of secs 2 and 11 marked with 8 notches on S. and 2 notches on E edges: raised a mound of stones 2 ft

chains	
	base 1½ ft. high E. of cor. —
	Pits impracticable.
	This cor. stands on N. slope near bottom of
	gulch and 200 ft. below top of spur
	Land mountainous very rugged
	Soil gravely and rocky 3rd and 4th rate
	Timber, a few scrubby mahogany and cedar
	Mountainous land 8,00 chs. —
	N 89°55' E. on a random line bet. secs. 2
	and 11
4,00	Set temp 1/4 sec cor.
80,26	Intersect N. and S. line 26 lks. S of cor. of secs
	1-2-11 and 12
	Thence I run
	S 89°44' W. on a true line bet. secs. 2
	and 11
	On mountainous land
	Ascending to
11,00	Top of main ridge and divide of water-
	shed between Cache and Malad Valleys
	course nearly N. and S. 180 ft. above cor.
	Begin descent on steep broken slope
40,13	Set a limestone 18 x 7 x 6 ins. 12 ins. in the
	ground for 1/4 sec cor. marked 1/4 on N.
	face, raised a mound of stones 2 ft.
	base 1½ ft. high N. of cor. —
	Pits impracticable.
80,26	The cor. of secs. 2 and 11
	This cor. stands 1100 ft below top of main
	ridge
	Land mountainous
	Soil gravely and rocky 3rd and 4th rate
	Timber scrubby mahogany and cedar
	scattering on W. slope; on E slope brush
	Mountainous land 80,26 chs. —
	September 1: The sky being overcast
	during the noon hour I was unable
	observe the sun or the meridian —
	From cor. of secs. 3-4-9 and 10 which is

Subdivision of T. 14 N. R. 3 W.

chains	
	stone firmly set marked and witnessed as described by the surveyor general
	I run
	East on a retracement line bet. secs. 3 and 10
35,00	A diligent search was made for a witness cor. at this place, being the end of old survey, but no trace of same could be found. I therefor continue my line
	Ascending on sloping bench
	In dense undergrowth
40,00	Set a limestone 18×10×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
58,50	Foot of Mountain slope bears N. and S
	Leave dense undergrowth —
	Begin ascent on mountainous land
80,00	Top of Spur S. 15° W. 300 ft high; thence ascending gradually on N. slope
85,15	Intersect W. bdy. of sec. 2 1,35 chs N. 0° 2' W. of cor. of secs 2 and 11
85,00	Set a limestone 18×9×5 ins. 12 ins. in the ground for closing cor. of secs 3 and 10 marked C.C. on W. face with 5 groves on S. and 4 groves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	Land sloping rolling bench and rugged mountains. —
	Soil gravely wash and boulders 3rd and 4th rate
	No timber
	Dense undergrowth of thorn and weeds
	Mountainous land and dense undergrowth 50,15 chs. —

September 1: at 2h 40m p.m., l.m.t. I set off 41° 58' 30" on the lat. arc 7° 52' 30" N. on the decl. arc and determine a true

Chains	
	meridian with the solar at the cor. of secs. 2 and 11
	Thence I run
	N 0° 2' W. bet. secs. 2 and 3
	On mountainous land: descending
1,35	The closing cor. of secs. 3 and 10
2,70	Bottom of narrow canon 50 ft. below cor. course W.
	Begin ascent
13,50	Top of spur S.W. 260 ft. high
	Descending W
27,40	Bottom of gulch 200 ft. deep course S W
	Ascending
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable
	This cor. stands on top of a spur running S W. 250 ft. above gulch
	Descending W
57,00	Bottom of gulch 160 ft. deep course S. W.
	Begin ascent
69,30	Top of rocky spur S. 60° W 300 ft. above gulch
	Descending on steep rocky slope W
74,80	Bottom of narrow gulch 150 ft. deep course S 60° W.
	Ascending W
77,50	Top of sharp rocky spur S 60° W.
	Descending W
79,90	Intersect N. bdy of Tp. 8,40 chs. W. of cor. of secs. 34 and 35
	Set a limestone 17 x 10 x 6 ins. 11 ins. in the ground for closing cor. of secs. 2 and 3 marked C.C. on S. face with 2 grooves on E and 4 grooves on W. faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
	Pits impracticable
	Land Mountainous very rugged
	Soil rocky and gravely 3rd and 4th rate
	Timber scrubby mahogany and cedar scattering

Subdivision of T. 14 N R 3 W.

chains	
	Mountainous land 79,90 chs. — September 1. 1896
	Retracements in T 14 N R 3 W. — Subdivisions From cor. of secs. 15-16-21 and 22 as hereinbefore described I run North on a retracement line bet. secs. 15 and 16
40,00	A diligent search was made for the 1/4 sec cor. but no trace of it could be found
79,85	Falls 1.45 chs. E of the cor. of secs. 9-10-15 and 16 as hereinbefore described The course of this line is therefor N. 1° 2' W.
	North bet. secs. 9 and 10
40,00	A diligent search was made for the 1/4 sec cor. but none could be found
80,00	Falls 1.75 chs E of the cor. of secs. 3-4-9 and 10 as hereinbefore described The course of this line is therefor N 1° 15' W
	North bet secs. 3 and 4
40,00	A diligent search was made for the 1/4 sec cor. but none could be found
79,00	Falls 1.90 chs. E of cor. of secs. 3-4-33 and 34 as hereinbefore described The course of this line is therefor N 1° 23' W. —
	From the cor. of secs. 2-3-34 and 35 on S. bdy of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general, I run North bet. secs. 34 and 35 —
40,60	The 1/4 sec. cor. bears W. 30 lks. dist. being a stone firmly set marked and witnessed as described by the surveyor general
81,10	Falls 70 lks. E. of the cor. of secs. 26-27-34 and 35 as hereinbefore described The course of this line is therefor N 0° 30' W

Chains	
	North bet. secs. 26 and 27
40,00	A diligent search was made for the 1/4 sec. cor. as described by the surveyor general but no trace of it could be found. —
81,25	Falls 62 lks. E. of the cor. of secs. 22-23-26 and 27 as hereinbefore described
	The course of this line is therefor N. 0° 27' W.
	September 1, 1896

General Description

The eastern portion of this township, which is covered by the present survey is mainly mountainous land very rugged and steep and a narrow strip of sloping bench land at the foot of the mountains. —

The soil is very rocky on the higher parts bowlders and gravel on the bench, and all of little value. —

There is no water within the township excepting a couple of very small springs.

The timber consist of scrubby cedar and mahogany of no commercial value. —

There are no quarries nor mines within the township nor any indications of minerals of any kind. —

There are no settlers within this portion of the township. —

Andrew P Hanson
U.S. Dep. Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

...wing 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 ...e parts or portions of the .....

.....

.....

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—151

450
448-449
B.A.K.

BOOK A-243

Final Oath of United States Deputy Surveyor.

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

.....

.....

.....

..... of the

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

.....

United States Deputy Surve

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 Sept. 9, 18

The foregoing field notes of the survey of the subdivisions of T14 N R W of the Salt Lake Base & Meridian Utah

.....

.....

.....

.....

.....

executed by Andrew P. Hansen

under his contract No. 204, dated December 30th, 1895, having critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

George W. Snow

United States Surveyor Gen

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

.....

United States Surveyor Gen

6—151

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4—679.

BOOK A-243

No. 3. B.

FIELD NOTES

OF THE SURVEY OF

West Boundary

of

Township No. 15 North Range No. 4 West

Of the Salt Lake Base & Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

under his Contract No. 204, dated December 30, 1895

Survey commenced September 2, 1896

Survey completed September 3, 1896

6—181

1-01-40

Carry 10.53

BOOK A-243

Names and Duties of Assistants.

E S L Giers Chainman or Nurseman

J L Barnes " " "

F P Davies Flagman or [illegible]

6—151

BOOK A-243

INDEX DIAGRAM.

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

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

Meanders Page .....

Preliminary Oaths of Assistants.

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

..... *Chai*

..... *Chainm*

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
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... *Mound*

..... *Mound*

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

..... *A*

..... *A*

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

SEAL

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

..... *Fl*

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

SEAL

West boundary of T.15 N. R.4 W.

chains

Survey commenced September 2, 1896 and executed with a Gurley Light mountain Transit with solar attachment.- The horizontal limb is provided with two double Verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.-
The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896
I examine the adjustments of the transit: then to test the solar apparatus on a meridian established by observation on Polaris. I proceed as follows.-
September 2, 1 At the cor. of Tps. 14 and 15 N R.4 and 5 W. latitude 41°59' N. longitude 112°22' W. at 8h36m p.m., 7 mt I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point on the line thus determined on a stake driven in the ground 5 chs. N of my station.-

September 2, 1896

September 3: At 7h5m a.m, 7 mt I lay off the azimuth of Polaris 1°41' to the west and mark the true meridian thus determined on a stone firmly set in the ground 5.00 chs N. of my station.-
At 7h25m a.m, 7 mt I set off 41°59' on the lat. arc 7°15' N. on the decl. arc and mark a point in the true meridian determined by the solar on the stone already set 5.00 chs. N. of my station, and by inspection find the two meridians thus determined to agree without material difference; hence conclude the adjustments of the instrument are accurate.-
The magnetic bearing of the true meridian at 7 a.m. is N. 17°30' W.; the angle thus determined reduced by the table page 100 of the manual gives the mean mag. decl. 17°27' E.-
I begin at the cor. of Tps 14 and 15 N R.4 and 5 W.

West boundary of T 15 N. R. 4 W.

chains	
	which is a stone firmly set marked and witness as described by the surveyor general.
	Thence I run
	North bet. secs. 31 and 36
	On mountainous land
	Descending on steep slope
18,00	Bottom of gulch 300 ft below cor., course N 76° E
18,25	Begin ascent
37,00	Top of spur E. 275 ft above gulch
	Descending gradually on rolling slope
40,00	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. -
47,05	Bottom of gulch 75 ft below top of spur drains E
	Ascend to
54,00	Top of ridge and divide of water shed E. and W., 90 ft above gulch, bears N 60° E and S. 60° W.
	Begin descent
67,43	Road from Malad Valley to Pocatello Valley bears E. and W. in head of gulch draining W.
	Ascending to
80,00	Set a limestone 24 x 12 x 9 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 N. edges; raised a mound of stones 2 ft base 1 1/2 ft high W. of cor. -
	Pits impracticable. -
	Land Mountainous
	Soil gravely wash and boulders 3d rate
	No timber:
	Mountainous land 80,00 chs. -
	North bet. secs. 25 and 30
	On mountainous land
	Ascending
1,40	Intersect Utah Idaho boundary line 10,53 chs. N. 68 m. mound Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 25 and 30 marked C.C. U. on S. with 6 groves on E. and W. faces; raised a mound of stones 2 ft. base 1 1/2 ft high S. of cor. Pits impracticable

West boundary of T 15 N R 4 W.

chains

Land mountainous
Soil gravely wash and bowlders 3d rate
No timber
Mountainous land 1,40 chs. —
September 3, 1896

Boundaries of T 15 N R 4 W
Latitudes departures and closing errors

Line designated	True bearing	Distance chs	Latitudes N. chs	Latitudes S. chs	Departures E. chs	Departures W. chs
West boundary	South	81,40		81,40		
South "	N 89° 53' E	77,50	.16			
" "	S 89° 51' E	3 20,00	—	.84	477,98	
" "	S 89° 49' E	80,43		.26		
East "	N 1° 30' W.	81.98	81,97			2,15
Utah Idaho "	West	10,22				
" " "	West	79,68				
" " "	N 89° 47' W	79,45	.30			
" " "	N 89° 46' W.	79,38	.33	—	—	476,91
" " "	N 89° 43' W.	78,80	.40			
" " "	S 89° 36' W	79,73		.56		
" " "	S 89° 37' W	69 34		.47		
Convergency	—	—	—	—		.10
Totals			83,16	83,23 83,16	477,98	479,16 477,98
Error of lat				0,07	Dep	1.18

This township is all mountainous land with the exception of parts of sec. 35 and 36. — There is a small spring and branch from same within the township. — The timber consists of scrubby cedar scattering over a limited area. —

Andrew P Hansen
U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

ist of the names of the individuals employed by .....

....., United States Deputy Surveyor, to assist in running, measuring, and

he lines and corners described in the foregoing field notes of the survey of .....

.....

he respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

s or portions of the .....

.....

.....

..... of the ..... base

..... meridian, ... of ....., which are represented

going field notes as having been surveyed by him and under his direction; and that said survey

n all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

numents established, according to the instructions furnished by the United States Surveyor

r .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

and sworn to before me this .....

....., 189

SEAL

.....

.....

Final Oath of United States Deputy Surveyor.

I, ..., United States Deputy Su
solemnly swear that, in pursuance of a contract received from .....
United States Surveyor General for ....., bearing date
..... day of ....., 189 , I have well, faithfully, and truly, in
proper person, and in strict conformity with the instructions furnished by the United States S
General for ....., the Manual of Surveying Instructions, and the laws
United States, surveyed all those parts or portions of .....
.....
.....
.....
..... of the
and ..... meridian, in the ..... of ....., which are represented
foregoing field notes as having been surveyed by me, and under my direction; and I do further sc
swear that all the corners of said survey have been established and perpetuated in strict accordance
Manual of Surveying Instructions, and the special written instructions of the United States
General for ..... and in the specific manner described in the field notes,
the foregoing are the original field notes of such survey; and should any fraud be detected, I will
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

....
United States Deputy Su

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 Sept. 9,

The foregoing field notes of the survey of The West Boundary of Township 15 North Range 4 West of the Salt Lake Base & Meridian, Utah
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executed by ..... Andrew P. Hanson .....
under his contract No. 204, dated ..... December 30th ....., 1895, havi
critically examined, and the necessary corrections and explanations made, the said field notes,
surveys they describe, are hereby approved.

George W. Snow
United States Surveyor Ge

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

.....
United States Surveyor G

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4—679.

467

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 4 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, United States Deputy Surveyor,

under his Contract No. 204, dated December 30, 1895

Survey commenced September 3, 1896

Survey completed September 6, 1896

6—151

10.35.09
50.64
42.20

Contingent 2.79.96 S. Bdry — 1.01—98
" Storing 10.22 S Bdry — 1.00.[illegible]
S Bdry — 77.55 } 1.77.98

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman or Monedman

J L Barnes " " "

F P Davies Flagman or Axman

BOOK A-243

INDEX DIAGRAM.

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

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

Meanders Page .....

Preliminary Oaths of Assistants.

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

..... *Chainm*

..... *Chai*

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 establishm
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... *Mouna*

..... *Mo*

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

.....,

.....,

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

SEAL

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

..... *M*

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

SEAL

Subdivision of T. 15 N. R. 4 W

chains	Survey commenced September 3, 1896 and executed with a Gurley light mountain transit with solar attachment. For further description of which and testing of adjustments reference is hereby made to survey of W. bdy. of this Tp. under this date. —
	Preliminary to commencing the subdivision of this Tp I go to the cor. of Tp 14 and 15 N. R. 3 and 4 W. which is a stone firmly set marked and witnessed as described by the surveyor general and at 2h0' p.m. 1 m t September 3, set off 41°59' on the lat. are 7°8' N on the decl are and determine a true meridian with the solar. —
	I now take a sight on a flag set at the 1/4 sec. cor bet secs. 31 and 36 which can be plainly seen, and find the bearing to be N 1°30' W.
	Thence I run
	N 1° 30' W. bet. secs. 31 and 36 on retrazement line.
4,000	The 1/4 sec. cor. bet secs 31 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general.
8000	This place falls in a fence running N. and S. No corner could be found after a diligent search: hence
	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for cor. of secs. 25-30-31 and 36 marked with 1 notch on S. and 5 notches on N edges; raised a mound of stones 2 ft. base 1½ ft. high W of cor. — Pits impracticable
	N 1°30' W bet. secs 25 and 30
1,98	Intersect Utah Idaho boundary line at the original closing cor. of secs. 25 and 30 at 10,22 chs E. of 62 m post. — The markings on closing cor. which is a stone firmly set, in the center of a lane running E and W. are indistinct but is pointed out by the settlers as the original cor. and I have no reason to doubt it. —
	From the Tp. cor. as before I run

Subdivision of T. 15 N. R 4 W.

Chains	
	West on S. bdy. sec. 36
40,00	The 1/4 sec. cor. bears N. 7 lks. being a stone firmly set marked and witnessed as described by the surveyor general
80,43	The cor of secs. 1-2-35 and 36 bears N. 25 lks being a stone firmly set marked and witnessed as described by the surveyor general. The course of this line is therefor N 87° 49' W.
	From the above described cor I run North bet. secs. 35 and 36 on sectional guide meridian on mountainous land
	Descending gradually on steep broken E. slope
30,00	Begin descent on steep N. slope
40,00	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable
40,50	Bottom of slope bears. E and W 1 enter bottom of gulch, and descend gradually
	In dense undergrowth
57,80	Fence bears. S 60° W and N 60° E
60,00	Stream 5 lks. wide flows N 66° E in narrow ravine 50 ft deep. -
64,35	Stream 3 lks. wide flows E. in ravine 30 ft. deep
67,55	Road from Malad Valley to Pocatello Valley bears N. 75° E and S. 60° W.
68,00	Foot of slope bears. N 60° E and S 60° W.; leave bottom of gulch and ascend gradually
80,00	Set a quartzite stone 18 x 9 x 6 ins. 12 ins. in the ground for cor. of secs. 25-26-35 and 36 with 1 notch on S and E edges; raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable. -
	Land Mountainous rolling and broken
	Soil gravely wash; with boulders on slopes 3 and and 3d rate
	No timber
	Dense undergrowth of sagebrush and thorn
	Mountainous land and dense undergrowth 80,00

Subdivision of T. 15 N. R. 4 W.

chains	
	S 89°49' E on a random line bet. secs. 25 and 36.
40,00	Set temp. 1/4 sec. cor.
78,64	Intersect E. bdy. of Tp. 23 chs N. of cor. to secs. 25-30-31 and 36
	Thence I run
	N 89°39' W on a true line bet. secs. 25 and 36
	In cultivated field
12,04	North end of Henry Parkinson house bears S. 59 chs
13,89	Fence bears N and S: enter Corral
14,98	Enter shed bears N and S.
15,36	Leave " " " " "
19,86	Fence bears N and S: leave Parkinson claim: enter field of James Johns
31,62	Fence bears N and S. House of James Johns bears S. 5,00 chs. —
38,64	Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
50,64	Fence bears N and S.:
	Leave cultivated field bears N and S
	Enter dense undergrowth
57,86	Fence bears N 75° E. to E. and S 75° W.
	Leave Johns claim
58,28	Ditch 4 ths wide flows S E
59,89	Road from Malad Valley to Portneuf Valley from S 70° W. turns E and enters lane; ascending gradually in brush
69,00	Mountainous slope bears N E and S.W.
	Ascending gradually on stony ground
78,64	The cor. of secs. 25-26-35 and 36
210/50.64	Land sloping bench at foot of mountains
	Soil gravelly wash 1st class
	No timber
	Dense undergrowth of sagebrush and thorns
	Mountainous land and dense undergrowth — 28,00 chs. —
	September 3, 1896

	September 4 I run
	North bet. secs. 25 and 26
	On mountainous land
14.6	Intersect Utah-Idaho boundary 11,70 chs. E. of 63 mile post in place

chains	Set a quartzite stone 18 x 11 x 5 ins 12 ins. in the ground for closing cor. of secs. 25 and 26 marked C.C.M. on S with 1 grove on E face; raised a mound of stones 2 ft. base 1½ ft. high S. of cor.
	Pits impracticable
	Land mountainous
	Soil wash and boulders 3d rate
	No timber; dense sagebrush undergrowth
	Mountainous land 1,46 chs. -
	September 4: At 8 47 m a.m. l.m.t. I set off 41° 59' on the lat. arc. 6° 53' 30" N. on the decl. arc and defined a true meridian with the solar at the cor. of secs. 2-3-34 and 35 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. -
	Thence I run
	N 0° 1' W. bet. secs. 34 and 35 -
	On mountainous land
	Ascending
11,30	Top of spur N W. 120 ft above cor.
	Begin descent
30,00	Foot of slope bears nearly E and W. 250 ft below spur
	Enter bottom of gulch. and
	Dense undergrowth -
34,35	Stream 4 lks wide flows N 65° E
	Begin gradual ascent
37,43	Road from Malad Valley to Pocatello Valley bears N 70° E and S 70° W.
40,00	Set a limestone 17 x 9 x 6 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. -
	Pits impracticable. -
50,00	Foot of steep ascent bears nearly E and W.
	Leave dense undergrowth -; enter scattering timber
65,25	Top of spur E 300 ft. above gulch
	Begin descent
72,00	In head of gulch draining E. 150 ft below top of spur
	Ascending -
80,00	Set a limestone 18 x 11 x 6 ins. 12 ins. in the ground for cor. of secs. 26-27-34 and 35 marked with -

Subdivision of T. 15 N. R. 4 W.

chains	1 notch on S. and 2 notches on E. edges. thence
	A cedar tree 10 ins. diam. bears S 28° 35' W 39 lks
	dist. marked T 15 N R 4 W S. 34 B.T.
	A cedar tree 11 ins. diam. bears N 19° 40' E 94 lks
	dist. marked T 15 N R 4 W S. 26 B.T.
	No other trees within limits: raised a
	mound of stones 2 ft. base 1½ ft. high W. of
	cor. —
	Land mountainous, broken
	Soil gravely wash and boulders 3d rate
	Timber scrubby cedar scattering
	Dense undergrowth of sagebrush and chaparral
	Mountainous land and dense undergrowth 8,000 chs.
	S 89° 57' E on a random line bet. secs. 26 and 35
40,00	Set temp 1/4 sec. cor.
80,00	Intersect N. and S. line 20 lks. S. of cor. of secs. 25-
	26-35 and 36
	Thence 0 mile
	West on a true line bet. secs. 26 and 35
	On mountainous land
	Ascending on rocky slope S.E.
9,00	Enter scattering cedars
25,50	Top of spur 450 ft above cor.
	Begin gradual descent on broken S. slope
40,00	Set a limestone 18 x 9 x 8 ins. 12 ins. in the
	ground for 1/4 sec. cor. marked 1/4 on N. face: whence
	A cedar tree 10 ins. diam. bears N 19° W 12 lks. dist.
	marked 1/4 S. B.T.
	A cedar tree 14 ins. diam. bears S 63° 10' W. 30 lks
	dist. marked 1/4 S. B.T.
	raised a mound of stones 2 ft. base 1½ ft. high N.
	of cor. —
80,00	The cor. of secs. 26-27-34 and 35
	Land mountainous
	Soil gravely and rocky 3d and 4th rate
	Timber scrubby cedar scattering
	Mountainous land 8,000 chs. —
	N 0° 1' W. bet. secs. 26 and 27
	On mountainous land

Subdivision of T. 15 N R 4 W.

chains	Ascending
1,72	Intersect Utah-Idaho boundary 10.7 O.L. S 89°47' E of 64 mile post in place
	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of secs. 26 and 27 marked C.C.U. on S. face with 2 groves on E face; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
	Pits impracticable. -
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber
	Mountainous land 1.72 chs. --
	September 4: at this cor. I set off 6°48' N. on the deel arc and at 11h 59m A.M., 1 m.t. observe the sun on the meridian: the resulting lat. is 42°0' N
	From the cor. of secs. 3-4-33 and 34 on S. bdy of Tp which is a stone firmly set marked and witness as described by the surveyor general I run N 0°2' W. bet. secs. 33 and 34
	On mountainous land
	Ascending on broken slope
18,00	Top of spur S. 60° E. 175 ft. high
	Descending to
26,50	Bottom of gulch 150 ft deep course S.E.
	Enter cedar timber and ascend
40,00	Set a limestone 18 x 11 x 7 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face whence
	A cedar tree 20 ins. diam. bears. S 78° W 7 lks. dist marked ¼ S B T.
	A cedar tree 7 ins. diam. bears. N 60°10' E 9 lks dist marked ¼ S.B.T.
65,50	Top of ridge 550 ft above gulch bears nearly E and W.
	Begin descent on steep slope to
80,00	Set a limestone 18 x 8 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. edges, whence
	A mahogany tree 10 ins. diam. bears. S 85°50' W. 47 lks dist marked T 15 N. R 4 W S 33 B T.
	A Mahogany tree 7 ins. diam. bears N 61° W.

Subdivision of T 15 N. R 4 W

chains	
	33 lks dist marked T 15 N R 4 W. Sec 28 B.T.
	A cedar tree 8 ins. diam. bears. S 55° 10' W. 67 lks dist.
	marked T. 15 N. R. 4 W. S. 33 B.T.
	No other trees within limit
	raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. –
	This cor stands on N slope 300 ft. below top of
	ridge
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	Timber scrubby cedar
	Mountainous land 80,00 chs. –
	S 89° 51' E on a random line bet. secs. 27 and 34
40,00	Set temp ¼ sec. cor.
50 30	Intersect N. and S. line 28 lks S of cor. of secs.
	26-27-34 and 35 –
	Thence I run
	S 89° 57' W. on a true line bet. secs. 27 and 34
	On mountainous land
	Ascending on N.E. slope, broken
40,15	Set a limestone 18 x 8 x 5 ins. 12 ins. in the
	ground for ¼ sec. cor. marked ¼ on N. face
	raised a mound of stones 2 ft. base 1½ ft. high
	N. of cor. – Pits impracticable
46,90	Top of spur N. 500 ft. above sec. cor.
	Descending
62,50	Bottom of ravine 275 ft. deep course N.
	Ascending
69,60	Top of spur N. 150 ft. high
	Descend
74,90	Bottom of ravine 95 ft. deep course N.
	Ascending to
80,30	The cor. of secs. 27-28-33 and 34
	Land mountainous
	Soil gravelly wash and boulders 3d rate.
	Timber a few scrubby cedar scattering
	Mountainous land 80,30 chs
	N 0° 2' W. bet. secs. 27 and 28
	On mountainous land

Subdivision of T.15 N.R.4 W.

chains	
	Descending steep slope
2,10	Intersect Utah Idaho boundary 9,53 chs S89°46'E 66 mile post: set a limestone 18x9x8 ins. 12 ins. in the ground for closing cor. of secs. 27 and 28 marked C.C.U. on S. with 3 groves on E. edges raised a mound of stones 2 ft. base 1½ ft. high S. of cor. - Pits impracticable
	Land mountainous
	Soil gravely 3d rate
	No timber
	Mountainous land 2,10 chs
	September 4, 1896
	September 5: From the cor. of secs. 4-5-32 and 33 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general I run
	N 0° 3' W. bet secs. 32 and 33.
	On mountainous land
	Ascending on rolling slope
4,00	Set a limestone 18x10x5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
4720	Top of ridge 560 ft. high bears N. 60° E. and S 60° W
	Begin descent on steep broken slope
8,00	Set a limestone 18x10x6 ins. 12 ins. in the ground for cor. of secs. 28-29-32 and 33 mark with 1 notch on S. and 4 notches on E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	This cor. stands 500 ft. below top of ridge
	Land mountainous
	Soil gravely and rocky 3d rate
	Timber a few scrubby cedar scattering
	Mountainous land 8,00 chs. -
	S 89° 51' E on a random line bet. secs 28 and 33
4,00	Set temp. 1/4 sec. cor.
7,90	Intersect N. and S. line 12 lks. S. of cor. of secs. 27-28

Subdivision of T. 16 N. R. 4 W.

chains	33 and 34
	Thence 8 rods
	N. 89°56' W. on a true line bet. secs. 28 and 33
	On mountainous land
	Descending
8,12	Bottom of ravine 150 ft. deep drains N
	Ascend W
14,90	Top of spur N 130 ft high
	Descending
19,25	Bottom of ravine drains N
	Ascend W
30,50	Top of spur N. 200 ft. high
	Begin descent
35,0	Bottom of ravine 120 ft. deep drains N.
	Ascending
39,95	Set a limestone, 8 x 8 x 6 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits impracticable
43,40	Top of spur N 150 ft. high
	Descending W
49,30	Bottom of gulch 100 ft. deep course N.
	Ascending
59,30	Top of spur N. 160 ft high
	Descending W
67,60	Bottom of gulch 200 ft deep drains N.
	Ascending on steep slope W
74,50	230 ft above gulch; ascent becomes gradual on N. slope
79,90	The cor. of secs. 28-29-32 and 33
	Land mountainous very broken
	Soil gravelly wash, and boulders 3d rate
	Timber a few scrubby cedars scattering
	Mountainous land 79,90 chs. —
	N 0°3' W. bet. secs. 28 and 29
	On mountainous land
	Descending
2,60	Intersect Utah & Idaho boundary 8,33 chs S. 89°43' E. of 65 mile post; in place: set a limestone 17 x 8 x 5 in. 11 in. in the ground for closing cor. of secs. 28 and 29 marked C.C.U. on S with 4 grooves

Subdivision of T. 15 N. R. 4 W.

chains	on E. face: raised a mound of stones 2 ft. 1½ ft. high S. of cor. - Pits impracticable
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber
	Mountainous land 2,50 chs
	September 5: The sky being overcast during the noon hour I could obtain no observation on the sun on the meridian
	From the cor. of secs. 5-6-31 and 32 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. I run
	N 0° 31' W. bet. secs 31 and 32
	On mountainous land
	Descending to
2,30	Ravine drains N E:
	Thence on broken N. slope
17,08	Road from Malad Valley to Pocatello Valley bears N.W. and S.E. in bottom of gulch draining S.E.
	Ascending to
33,65	Top of spur S.W. 250 ft high
	Descending on broken slope
40,00	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	The buildings on Henry Johns sheep ranch in the bottom of gulch by a large spring which sinks after running about 20 chs, bears S 80° 15' W. 34,00 chs.
42,00	Head of ravine drains S W
	Ascending to
49,50	Top of ridge 450 ft above gulch bears nearly E. and S.W.
	Begin descent
61,00	Head of gulch draining N. E.
	Thence on N. slope to
71,00	Top of ridge bears N. 30° E. and S. 30° W.
	Descending to
8,00	Set a limestone 18 x 10 x 6 ins. 12 ins. in the

chains	
	ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edge; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable Land mountainous Soil gravely rock and bowlders 3d rate No timber. Mountainous land 80,00 chs
	Sep. 5: at 3 45 m/p m 2 m 2 - I set off 42° 0' on the lat. arc 6° 2' 30" N. on the decl. arc and determined a true meridian with the solar at the cor of secs. 29-30-31 and 32 Thence I run S 89° 57' E on a random line bet. secs. 29 and 32
40,00	set temp 1/4 sec. cor.
79,76	Intersect N. and S. line 25 lks. S. of cor. of secs. 28-29-32 and 33 Thence I run S 89° 58' W on a true line bet. secs. 29 and 32 On mountainous land Ascending gradually on broken N. slope
19,00	Top of spur N. 150 ft high Descending on rolling surface
39,88	set a limestone 18 x 10 x 8 in. 12 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
49,00	Bottom of gulch 300 ft below top of spur draining N Begin ascent
75,00	Top of rocky ridge 400 ft high bears. N 25° E and S 25° W. Begin descent to
79,76	The cor. of secs. 29-30-31 and 32 Land mountainous Soil gravely and rocky 3d rate No timber Mountainous land 79,76 chs. -
	S 89° 53' W on a random line bet. secs 30 and 31
40,00	set temp. 1/4 sec cor.

Subdivision of T. 15 N R. 4 W.

Chains	
77,40	Intersect W. bdy. of Tp 39 chs S. of cor. of secs. 25-30-31 and 36
	Thence I run
	S 89° 50' E on a true line bet. secs. 30 and 31
	On mountainous land
	Ascending gradually W
0,90	Top of spur S 15° E
	Begin descent on rolling surface
19,75	Bottom of ravine 200 ft. below spur, drains S
	Ascending W
21,40	Top of spur S. -
	Begin descent on S.E. slope
30,85	Bottom of gulch course N.E.
	Ascending gradually on rolling surface
37,40	Set a sandstone 18 x 10 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft high N. of cor. Pits impracticable. —
46,40	Top of spur N. 100 ft high
	Descending W
57,40	Bottom of ravine 70 ft. deep course N.
	Ascending W
63,00	Top of spur N. -
	Thence over rolling & slope W
77,40	The cor. of secs. 29-30-31 and 32
	Land mountainous
	Soil gravelly wash and boulders 3d rate
	No timber
	Mountainous land 77,40 chs. —
	September 5, 1896

	September 6: I run
	N. 0° 3' W. bet secs 29 and 30
	In mountainous land
	Descending
1,95	Intersect Utah Idaho boundary 1,94 chs. S. 89° 36' W of 66 miles and 70 chs. mound
	Set a limestone 18 x 9 x 5 ins. 12 ins in the ground for closing cor. of secs. 29 and 30 marked C.C.M. on S face with 5 grooves on E. face: raised a

chains	mound of stones 2 ft. base 1½ ft. high S. of cor. Pits impracticable Land mountainous Soil gravely wash and boulders 3d rate — No timber Mountainous land 1.95 chs
	There being a large difference between the length of the N. bdy. of sec. 31 and S. bdy. of same section as described by the surveyor general I conclude error exists in the said S. bdy hence: From the cor. of Tps. 14 and 15 S. R. 4 and 5 W. I run on retracement line S 89° 57' E. bet. secs. 6 and 31
35.00	After diligent search no ¼ sec. cor. could be found within a radius of 3 chs. —
79.55	The cor. of secs. 5-6-31 and 32 bears N. 37 chs and the course of this line is therefore N 89° 57' E September 6, 1896

General Description

This township is all mountainous land excepting most of sec 36 which is nearly level bench land and about one third of sec. 35 which is rolling gulch bottom but can be cultivated. - Sec 36 is rich productive soil the greater part being under cultivation, and will produce crops without irrigation. —

The remainder of the township is all very rough broken hills and the soil is rocky; it is valuable for pasture only. -

There are some cedar timber, which is suitable for firewood only and of no commercial value

There are no quarries nor mines nor any indication of mineral of any kind. —

The township is watered by one small stream which originates from springs and sinks and rises several times. -

There are two settlers in sec. 36; the ranch in sec. 31 is occupied during the summer.

Subdivision of T 15 S R 4 W.

season only and not a permanent settlement having no other improvements than two cabins and a sheep corral. —

A P Hanson
U S Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and

making the lines and corners described in the foregoing field notes of the survey of _____

_____

ing 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

parts or portions of the _____

_____

_____

_____ of the _____ base

_____ meridian, _____ of _____, which are represented

e foregoing field notes as having been surveyed by him and under his direction; and that said survey

been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

r monuments established, according to the instructions furnished by the United States Surveyor

ral for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

cribed and sworn to before me this _____

lay of _____, 189

SEAL

_____

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6—151

330
486-487
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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 ..... day of ....., 189 , I have well, faithfully, and truly, in 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

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 the foregoing are the original field notes of such survey; and should any fraud be detected, I will be liable to 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 Sept. 9, 1

The foregoing field notes of the survey of the subdivisions of Township 15 South Range 4 West of the Salt Lake Base and Meridian of Utah

.....

executed by Andrew F. Hanson under his contract No. 204, dated December 5th, 1895, having critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

George W. Snow

United States Surveyor General.

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

.....

United States Surveyor General.

6—151

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4—679.

6.7.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

West Boundary

of

Township No 15 North Range No 5 West.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hanson, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced September 7, 1896

Survey completed September 7, 1896

6—151

L 60.81 x

Array 11.06 x

Names and Duties of Assistants.

E. H. Giers Chainman or Monumenter

J. L. Barnes " " "

F. P. Davies Flagman or Rodman

BOOK A-243

INDEX DIAGRAM.

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

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page .....

6—121

Preliminary Oaths of Assistants.

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

..... , Cha

..... , Chai.

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 establishm
corners, according to the instructions given us, to the best of our skill and ability, in the survey of
.....

..... , Mou

..... , Moun

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

..... , A

..... , A

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

SEAL

.....

.....

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

..... , Flag

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

SEAL

.....

West boundary of T. 15 N. R. 5 W.

chains	Survey commenced September 7. 1896 and executed with a Gurley light mountain Transit with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc: which is also the least count of the verniers of the latitude and declination arcs.—
	The instrument was examined tested on the true meridian at Salt Lake found correct and was approved by the surveyor general for Utah April 24, 1896
	Having recently tested the adjustments of the instrument on a true meridian established by observation on Polaris; in connection with the survey of the W. bdy. of Tp 15 N R 4 W. reference to which is hereby made I consider it unnecessary to repeat the test at this time.—
	September 7 at 4h 15m p.m. l.m.t. I set off 41° 59' on the lat. arc 5° 37' N on the decl arc and determine a true meridian with the solar at the cor. of Tps. 14 and 15 N Rs 5 and 6 W. which is a stone firmly set marked and witnessed as described by the surveyor general.—
	From the Tp cor above described I run
	North bet. secs. 31 and 36
	On mountainous land
	Ascending on S.W. slope
7,00	Top of spur S. 25° W.
	Descending on W. slope to
26,00	Head of gulch 150 ft. deep course S. W.
	Begin ascent
37,00	Top of spur W. 170 ft. above gulch
	Descending gradually to
40,00	Set a sandstone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 secs cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits impracticable.—
42,15	Bottom of draw draining W.
	Ascending to
55,00	Top of ridge 450 ft. above Tp cor. course N. 25° W.

West boundary of T. 15 N. R. 5 W.

Chains	and S 25° E
	Begin descent on N. E. slope
80,00	Set a limestone 18 x 10 x 5 inc. 12 inc. in the ground for cor. of secs. 25-30-31 and 36 marked with 1 notch on S. and 5 notches on N. edge raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
	Land Mountainous
	Soil gravely wash and bowlders 3d rate
	No timber
	Mountainous land 80,00 chs. - -
	North - bet secs. 25 and 30
	In mountainous land
	Descending gradually on steep E. slope
0,81	Intersect Utah Idaho Boundary line 11,06 chs. E. of 73 mile and 75 chs. monument
	Set a sandstone 18 x 9 x 6 inc. 12 inc. in the ground for closing cor. of secs. 25 and 30 marked C.C.W on S. face with 6 grooves on E and W. faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. - Pits impracticable
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber
	Mountainous land 0.81 chs.
	September 7, 1896

Boundaries of T. 15 N. R. 5 W.

Latitudes Departures and closing errors

			Latitudes		Departures	
Line designated	True bearing	Distance	N	S	E	W
		chs.	chs.	chs.	chs.	chs.
East boundary	North -	81,40	81,40			
Utah Idaho boundary	West	833,30		0,61		477,94
	S 89° 47' W	144,64				
West boundary	South	80,81		80,81		
South boundary	East	274,67			274,67	
" "	N 89° 51' E.	203,00	.53		203,00	
Convergency						.10
Totals			81,93 / 81,41	81,42	477,67	478,04 / 477,67
Error in Lat.			0,52	in Dep.		0,37

Boundaries of [illegible]

This township is partly rough and mountainous and partly rolling valley. — The soil is fertile but no water can be obtained for irrigation nor domestic use hence it is only applicable for dry farming. — There is one small spring in the township. —

The township should be subdivided. —

Andrew [illegible]

September [illegible] — U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

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

.....

: ving 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 ...se parts or portions of the .....

.....

.....

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—151

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Final Oath of United States Deputy Surveyor.

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

_____

_____

_____

_____ of the

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

_____

United States Deputy Su[illegible]

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 Sept. 9, 1

The foregoing field notes of the survey of the West Boundary of Township 15 North Range 5 West of the S Lake Base & Meridian Utah

_____

_____

_____

_____

executed by Andrew H. [illegible]

under his contract No. 204, dated December 30th, 1896, having critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

George W. Snow

United States Surveyor [illegible]

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 [illegible]

_____

United States Surveyor Gen[illegible]

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4—679.

BOOK A-243

FIELD NOTES

K.J.B.

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 5 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hansen, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced September 8, 1896

Survey completed September 11, 1896

6—151

9 49 04
1 35 01
62.70
1.77.67

Names and Duties of Assistants.

E. N. Giers Chainman or Marksman

J. L. Barnes " " "

F. P. Davies Flagman or Axman

BOOK A-243

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

....., *Chai*

....., *Chai*

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 establish
corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Mound*

....., *Mound*

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

....., *A*

....., *A*

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

SEAL

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

....., *Fla*

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

SEAL

Subdivision of T. 15 N. R. 5 W.

chains	Survey commenced September 8, 1896 and executed with a Gurley Light Mountain Transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. - The instrument was examined, tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah April 24, 1896. - At the cor. of Tps. 14 and 15 N. RS. 4 and 5 W. latitude 41° 59' N longitude 112° 22' W. I set off 41° 59' on the lat. arc 5° 23' 30" N on the decl. arc and at 7h 30m a.m, l.m.t. Sep. 8 determine a true meridian with the solar and compare the same with the true meridian established at this place September 3, by observation on Polaris. In connection with the survey of W. bdy. of T 15 N. R 4 W. - I find the two meridians to agree without material difference and therefor consider the adjustments of the transit correct. - The magnetic decl. I find as previously recorded 17° 27' E. —
	From the Tp. cor. already described I run S 89° 51' W. on the S. bdy. of sec. 36; at 37,00 chs. I make a carefull search for the 1/4 sec. cor. which can not be found within a radius of 3,00 chs. and at 79,26 chs. fall 20 lks. S. of the cor. of secs. 1-2-35 and 36 on S. bdy. of Tp: consequently the S. bdy of sec. 36 bears. West. — Neither the course nor distance of this line is therefor as described by the surveyor general my alligument and chaining having been done with all possible care
	I commence at the cor. of secs. 1-2-35 and 36 on S. bdy. of Tp 15 N. R 5 W. which is a stone firmly set marked and witnessed as described by the

Chanic	Surveyor General.—
	Thence Irun
	N 0° 1' W. bet. secs. 35 and 36
	On Mountainous land
	Descending on rolling N.E. slope
31,33	Fence bears E and W.
40,00	Set a limestone 18 x 10 x 9 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable
49,58	Bottom of gulch 450 ft. below sec. cor. bears N.W.
	Begin ascent
59,00	Top of spur N.W. 100 ft. high
	Descending on rolling slope to
69,57	Fence bears S 78° W. and N. 78° E
75,31	Ditch from Pocatello spring 2 chs. wide course W.
78,16	Dry wash in bottom of gulch 200 ft. below top of spur. course W.
	Begin ascent
79,62	Fence bears E and W.
79,85	Road from Malad Valley to Pocatello Valley bears E and W.
80,00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 25-26-35 and 36 marked with 1 notch on S. and E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor.—
	Pits impracticable
	Land mountainous
	Soil gravely wash and boulders 3d rate
	No timber; some oak brush in patches
	Mountainous land 80,00 chs.—
	East on a random line bet. secs. 25 and 36
40,00	Set temp. 1/4 sec. cor.
79,72	Intersect E. bdy. of Tp. at cor. of secs. 25-30-31 and 36
	Thence S. run
	West on a true line bet. secs. 25 and 36
	On mountainous land; descending
5,85	Head of gulch 60 ft. deep drains S 30° W.
	Ascending to
9,57	Top of spur S. 57 ft. high

Subdivision of T. 15 N. R. 5 W.

Chains	
	Descending to
13,14	Bottom of ravine 60 ft deep course S. 20° W.
	Ascending
21,00	Spur S. 80 ft. high
	Begin descent
31,45	Bottom of gulch 200 ft. deep course S 25° W.
	Ascending to
37,00	Top of Spur S. 20° W. 75 ft. high
	Descending
39,86	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. – Pits impracticable
43,38	Bottom of gulch 100 ft deep course S. 30° W.
	Ascending to
50,00	Top of spur S 25° W. 80 ft high
	Descending on broken slope
65,70	Fence bears S. 25° W. and N 25° E: enter Pocatello Ranch claimed by Fred Manning et. al.
65,85	Spring branch 1 ft. wide flows S 25° E in small ditch, from spring 5 to 6 chs. N. E.
66,80	Pocatello Spring walled up, with house 5 x 6 ft over it bears. S. 16 lks. flows S. and W.
69,34	East side of frame house about 22 x 22 ft, at 4 ft from S. end
69,56	West side of house
70,56	Fence bears N 65° W.; enter lane and road
72,74	" " " " " " leave " " "
77,31	Fence bears. S 75° W and N. 75° E: leave ranch
79,72	The cor. of secs. 25-26-35 and 36
	Land Mountainous, broken and rolling
	Soil gravely wash and boulders 3rd rate
	No timber:
	Mountainous land 79,72 chs. –

	N. 0° 1' W. bet. secs. 25 and 26
	In Mountainous land
	Ascending to
1,29	Intersect Utah Idaho boundary 11,11 chs. E. of 69 mile mound
	Set a limestone 18 x 11 x 7 ins. 12 ins. in the

Chains

ground for closing cor. of secs. 25 and 26
marked C.C.M. on S face with 1 grove on
E. face: raised a mound of stones 2 ft. base
1½ ft. high S. of cor. - Pits impracticable
Land mountainous
Soil gravely and rocky 3d rate
No timber.
Mountainous land 1,29 chs.
September 8: The sky being overcast during the
noon hour I was unable to observe the sun on
the meridian —

From the cor. of secs. 2-3-34 and 35 on S. bdy. of
Tp. which is a stone firmly set marked and
witnessed as described by the surveyor general
I run
N. 0° 2' W. bet. secs. 34 and 35
on mountainous land
Descending on broken N.W. slope
35,63 Fence bears E and W. at foot of mountains
Leave mountainous land and
Enter dense undergrowth, on rolling Valley
40,00 Set a limestone 18 x 8 x 6 ins. 12 ins in the
ground for ¼ sec. cor. marked ¼ on W. face:
raised a mound of stones 2 ft. base 1½ ft. high
W. of cor. - Pits impracticable
67,30 Enter cultivated land bears E. and W.
Leave dense undergrowth
80,00 Set a black limestone 17 x 10 x 9 ins. 11 ins. in
the ground for cor. of secs. 26-27-34 and 35
marked with: 1 notch on S. and 2 notches on
E. edges: raised a mound of stones 2 ft. base
1½ ft. high W. of cor. - Pits impracticable
Land mountainous and rolling Valley
Soil gravely wash and bowlders on mountainous
part 3d rate; Valley gravely loam 1st rate
No timber:
Dense undergrowth of sagebrush and thorn
Mountainous land and dense undergrowth
67,30 chs. —

67.30
13.10

Subdivision of T. 15 N. R. 5 E.

chains	N. 89° 51' E. on a random line bet. secs. 26 and 35
4,00	Set temp. 1/4 sec. cor.
80,34	Intersect N. and S. line 25 lks. N. of cor of secs. 25-26-35 and 36
	Thence I run
	N. 89° 58' W. on a true line bet. secs. 26 and 35
	On Mountainous land
	Descending to
6,85	Fence bears N 75° W and S 75° E
9,00	Dry wash in bottom of gulch 80 ft. below cor. course N. 65° W.
15,00	Enter same wash 8 ft deep
17,05	Leave " " " " course N. 75° W.
	Begin ascent, gradually
21,37	Fence bears N. 25° W. and S. 25° E. at top of gulch; enter cultivated field
	Leave Mountainous land
40,17	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
80,34	The cor. of secs. 26-27-34 and 35
21,37 / 58,97	Land mountainous, and gently sloping valley Soil, on mountainous part gravely wash and bowlders 3d rate; Valley gravely loam 1st rate No timber
	Mountainous land 21,37 chs. —
	N 0° 2' W. bet. secs. 26 and 27
	On cultivated land
0,70	Fence bears E. and W.
	Leave cultivated field
0,92	Road From Malad Valley to Pocatello Valley bears E. and W.
1,25	Intersect Utah-Idaho boundary 11,87 chs. E of 70 mile mound
	Set a limestone 17 x 9 x 8 ins. 11 ins. in the ground for closing cor. of secs. 26 and 27 marked C.C.U. on S face with 2 grooves on E face raised a mound of stones 2 ft. base 1½ ft.

chains	high S of cor. - Pits impracticable Land gently sloping valley Soil gravely loam 1st rate No timber. - September 8, 1896
	September 9. - From the cor. of secs. 3-4-33 and 34 on S bdy of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general, I run N 0° 2' W. bet. secs. 33 and 34 On mountainous land Descending
7,00	Foot of mountain bears. N 75° E and S 75° W. Enter Pocatello Valley Leave mountainous land Enter dense undergrowth
35,03	Pocatello Valley road bears. N E and S W.
40,00	Set a limestone 17 x 10 x 5 inc. 11 inc. in the ground for 1/4 sec. cor. marked 1/4 on W. face dig pits 18 x 18 x 12 inc. N and S of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
42,46	Line of fence posts runs E and W.
80,00	Set a sandstone 18 x 9 x 6 inc. 12 inc. in the ground for cor. of secs. 27-28-33 and 34 marked with 1 notch on S and 3 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits impracticable Land mountain slope and gently sloping valley Soil gravely loam 1st rate No timber. - Dense undergrowth of sagebrush and thorn Mountainous land and dense undergrowth 80,00 chs. —
	N. 89° 51' E on a random line bet. secs. 27 and 34.
40,00	Set temp. 1/4 sec. cor.
80,10	Intersect N. and S. line 20 chs N. of cor. of secs. 28-27-34 and 35. Thence I run West. on a true line bet. secs. 27 and 34

Subdivision of T. 15 N. R. 5 W.

chains	On cultivated land; descending gradually
40,05	Set a limestone 23×13×6 ins. 17 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. - Pits impracticable
	N.W. cor. of fence of Pocatello ranch bears N. 58°45' W. 2,40 chs.
41.11	Leave cultivated land bears N. and S. -
42,09	Fence bears N. and S; leave Pocatello Ranch
	Enter dense undergrowth
49,50	A Well 60 ft. deep bears N. 6 ft.; no water was struck at this depth. -
52,06	Pocatello Valley road bears N. E. and S.W.
73,54	Line of fence posts bears N. and S.
80,10	The cor. of secs. 27-28-33 and 34
3801 / 4209	This cor stands about 260 ft. below cor of secs. 26-27-34 and 35 -
	Land rolling Valley
	Soil gravely loam 1st rate
	No timber.
	Dense undergrowth of sagebrush and thorn
	Dense undergrowth - 38,01 chs. -
	N 0° 2' W. bet. secs. 27 and 28
	In dense undergrowth -
1,22	Intersect Utah-Idaho boundary at 12,68 chs. E. of 71 mile mound
	Set a sandstone 18×9×8 ins. 12 ins. in the ground for closing cor. of secs. 27 and 28 marked C.C.U. on S. face with 3 groves on E. face; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. - Pits impracticable
	Land level Valley
	Soil gravely loam 1st rate
	No timber
	Dense undergrowth of sagebrush and thorn
	Dense undergrowth 1,22 chs. -
	September 9: At this cor. I set off 4°55'30" N. on the decl. arc and at 11h 57m A.M. 7m T. observe the sun on the meridian; the resulting lat. is 42°. N.

chains	September 9: at 2h 4m p.m. 2 m 2 I set off 41° 59' on the lat. are 4° 54' N. on the decl. are and determine a true meridian with the solar at the cor. of secs. 4-5-32 and 33 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. -
	Thence I run
	N 0° 3' W. bet. secs. 32 and 33.
	On level land.
	In dense undergrowth -
40,00	Set a sandstone 18 x 8 x 5 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. -
80,00	Set a limestone 18 x 17 x 6 ins. 12 ins. in the ground for cor. of secs. 28-29-32 and 33 mark with 1 notch 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 level Valley
	Soil gravely loam 1st rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 80,00 chs. -
	East on a random line bet. secs. 28 and 33
40,00	Set temp 1/4 sec cor.
79,80	Intersect N. and S. line 12 chs. S. of cor. of secs. 27-28-33 and 34
	Thence I run
	S. 89° 55' W. on a true line bet. secs. 28 and 33
	On level land
	In dense undergrowth -
39,90	Set a sandstone 17 x 7 x 5 ins. 11 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. -

chains	
	Begin gradual ascent
77,86	Line of fence fairly bears N. and S: a closing cor of the Idaho survey bears N. 1,23 chs. –
79,80	The cor. of secs. 28-29-32 and 33
	Land gently sloping and level
	soil gravely loam 1st rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 79,80 chs. –
	September 9. 1896
	September 10: I run
	N 0° 3' W. bet. secs. 28 and 29
	On level land
	In dense undergrowth –
1,23	Intersect Utah Idaho boundary at 13,40 chs. E. of 72 mile mound
	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 28 and 29 marked C.C.U. on S. face with 4 grooves on E. face; dug pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft. dist: and raised a mound of earth 4 ft base 2 ft. high S. of cor. –
	Land level
	soil gravely loam 1st rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 1,23 chs. –
	September 10: at 9 48 m a m, I set off 4° 59' in the lat. are 4° 36' N. on the decl. are and determine a true meridian with the solar at the cor. of secs. 5-6-31 and 32 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. –
	Thence I run
	N. 0° 4' W. bet. secs. 31 and 32
	On gently rolling land
	In dense undergrowth

Subdivision of T. 15 S. R. 5 W.

chains	
40,00	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins. N and S of stone 3 ft dist.; and raised a mound of earth 3½ ft base 1½ ft. high W. of cor. —
80,00	Set a limestone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges - dug 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 gently sloping valley Soil gravely loam 1st rate No timber. Dense undergrowth of sagebrush and thorn Dense undergrowth 80,00 chs. —
	East on a random line bet secs. 29 and 32
40,00	Set temp. 1/4 sec cor.
80,06	Intersect N. and S. line 10 chs. N. of cor. of secs. 28-29-32 and 33
	Thence I run
	N. 89° 56' W. on a true line bet secs. 29 and 32 Ascending gradually on even slope In dense undergrowth —
40,03	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug 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 high N. of cor. —
77,60	A closing cor. of the Idaho surveys bears N. 99 chs. —
80,06	The cor. of secs. 29-30-31 and 32 Land gently sloping valley Soil gravely loam 1st rate No timber. Dense undergrowth of thorn and sagebrush Dense undergrowth 80,06 chs. — September 10: at this cor. I set off 40° 33' N. on the decl. arc and at 11 45 7' a m 2 m I observed

Subdivision of T. 15 N. R. 5 W.

chains	
	The sun on the meridian; the resulting lat. is 42° N
	West on a random line bet. secs. 30 and 31
40,00	Set temp. 1/4 sec cor.
78,03	Intersect W. bdy. of Tp. at cor. of secs. 25-30 31 and 36
	Thence I run
	East on a true line bet. secs. 30 and 31
	On mountainous land
	Descending steep slope
0.36	A. Closing cor. of the Idaho surveys bears N. 82 lks.
7,00	Foot of mountains bears N. 20° W. and S 20° E; enter sloping valley and begin gradual descent
	Leave mountainous land
	Enter dense undergrowth —
38,03	Set a sandstone 18×7×6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dug pits 18×18×12 ins. E. and W. of stone 3 ft dist, and raised a mound of earth 3½ ft. base 1½ ft. high N. of cor. —
78,03	The cor. of secs. 29-30-31 and 32
	This cor. stands about 400 ft. below the cor on W. bdy. of Tp.
	Land mountainous, and gently sloping Valley
	Soil in Valley gravely loam 1st rate
	No timber. -
	Dense undergrowth of thorn and sagebrush
	Mountainous land and dense undergrowth
	78,03 chs. —
	N. 0° 4' W. bet. secs. 29 and 30
	On level land
	In dense undergrowth —
1,01	Intersect Utah Idaho boundary at 13,64 chs N 89° 47' E of 73 mile mound
	Set a limestone 18×10×5 ins. 12 ins. in the ground for closing cor. of secs. 29 and 30 marked C.C.U. on S. face with 5 groves on E face; dug pits 24×18×12 ins. crosswise on each line

Chains | E. and W. 3 ft. and S. of stone 7 ft. dist; and raised a mound of earth 4 ft. base 2 ft. high S. of cor.
Land gently sloping valley
Soil gravelly loam 1st rate
No timber
Dense undergrowth of thorn and sagebrush
Dense undergrowth 1,01 chs:—
September 10, 1896

September 11: It being evident that error exists in the boundaries of sec. 31. hence
From the cor. of Tps 14 and 15 N R. 5 and 6 W
I run on retracement line.
East on S. bdy of sec 31 and at 38.45 fall 15 chs. S of the 1/4 sec. cor, and at 78.45 intersect the cor. of secs. 5-6-31 and 32:
Therefor the course of this line is as stated by the Surveyor General but the distance differs by 1,57 chs -- my chaining having been done with all possible care.—
September 11, 1896

This township is composed mainly of rolling valley land and partly of broken hills.—
The soil in the valley is a gravelly loam and without irrigation will produce abundant nutritious grasses in its natural state, while cultivated it will produce an average 10 to 16 bushels of wheat per acre.—
With irrigation this and would become very fertile but water can not be obtained
There is no timber of any kind within the township nor is there any quarries nor mines nor indication of minerals
Pocatello spring in sec. 36 is the only permanent water within the township, and valley and is therefore very valuable, affording water for stock and domestic use and thereby making ranching possible, and the Pocatello Ranch covering back of secs. 34-35 and 36 is a

Subdivisions of T 15 N. R. 5 W.

Claim	Valuable property.— a settlement was commenced of part of sec. 33 and 34 but excepting the line of fence posts and a few furrows of plowing no improvements has been made; having failed to obtain water by well sunk the claim was abandoned, at least temporary.— Andrew P. Hansen U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., 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

.....

6—151

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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, Sept. 9, 1897

The foregoing field notes of the survey of the sub divisions of Township 15 North Range 5 West of the Salt Lake Base & Meridian Utah

executed by Andrew Hanson under his contract No 204, dated December 8th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
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.

K.J.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 6 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced September 12, 1896

Survey completed September 16, 1896

6—151

H	9.71.79 ✓
L	1.17.10 ✓ 11-08-89
Clay	1 06 95 ✓
Rebounds	2. ~~08~~ 9.19 ~~95~~ ✓ 2 W & S Bds
" clay	16.32 S ✓

Names and Duties of Assistants.

E. H. Giers Chainman or M. "

J. L. Barnes " " "

F. P. Davis Flagman or A. Man.

6—151

BOOK A-243

INDEX DIAGRAM.

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

6	5	4	3	2	1
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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 lev
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same;
we will report the true distances to all notable objects, and the true lengths of all lines that we
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the s

.....

....., *Chain.*

....., *Chai*

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

SEAL

.....

.....

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

.....

....., *Mound*

....., *Mound*

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
and other duties, according to instructions given us, to the best of our skill and ability, in the su ve

.....

....., *A*

....., *A*

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

SEAL

.....

.....

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

....., *Flagm*

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

SEAL

.....

6—151

Subdivision of T. 15 N R 6 W.

chains	Survey commenced September 12, 1896 and executed with a Gurley light Mountain Transit with solar attachment. — The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs. . . The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah, April 24, 1896 Having tested the adjustments of the instrument September 8: on a true meridian established by observation on Polaris at the cor. of Tps. 14 and 15 N. Rs. 4 and 5 W. before commencing the survey of subdivision lines of T 15 N R 5 W. and found them satisfactory and being confident they so remain I consider it unnecessary to repeat the test at this time. —
	September 12: at 7h 30m a m I got — I set off 41° 59' on the lat. arc 3° 5' 2" N. on the decl arc and determine a true meridian with the solar at the cor. of secs. 1-2-35 and 36 on S. bdy. of T 15 N. R. 6 W which is a stone firmly set marked and witnessed as described by the surveyor general. — The magnetic bearing of the true meridian at 7h 30m a m. is N. 17° 25' W; the angle thus determined reduced by the table page 100 gives mean mag. decl. 17° 28' E. — Thence I run N 0° 1' W. bet. secs. 35 and 36. On level barren valley lands
4,000	Set a sandstone 17x8x5 ins. 19 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dug pits 18x18x12 ins. N. and S. of stone 3 ft dist, and raised a mound of earth 3½ ft base 1½ ft. high W. of cor. —

Chains	
	Enter dense undergrowth; bears N W and S E
	Ascending gradually on rolling beech
8,000	Set a limestone 17 x 9 x 6 ins. 11 ins. in the ground for cor. of secs. 25-26-35 and 36
40.00 / 40.00	marked with 1 notch on E. and S. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
	Land level valley and bench
	Soil gravelly wash 2nd rate
	No timber!
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 4,000 chs. –
	East on a random line bet. secs. 25 and 36
4,000	Set temp. ¼ sec. cor.
7,992	Intersect E. bdy of Tp. at cor. of secs. 25-30-31 and 36
	Thence I run
	West on a true line bet. secs. 25 and 36
	On mountainous land
	Ascending steep slope to
11,00	Top of ridge bears N. 25° W. and S. 25° E 300 ft. above cor.
	Begin descent on broken slope
26.50	Bottom of ravine 180 ft. deep course S 50° W.
	Ascending to
38,00	Top of rocky spur S W.
	Begin steep descent
39,96	Set a fossiliferous stone 24 x 12 x 6 ins. 18 ins. in a mound of stones 3 ft. base, on rock bottom for ¼ sec. cor. marked ¼ on N. face;
	No bearing trees available
60,00	Bottom of steep descent and foot of mountain; bears nearly N and S. 650 ft. below top of ridge
	Leave mountainous land
	Enter dense undergrowth
	Descending gradually on bench to
79,92	The cor. of secs. 25-26-35 and 36
	Land mountainous and sloping bench
	Soil gravelly and rocky 2nd and 3rd rate

chains	
	No timber Dense undergrowth of thorn and sagebrush Mountainous land and dense undergrowth 79,92 chs. —
	N 0° 1' W. bet. secs. 25 and 26 On broken bench land In dense undergrowth
1,26	Intersect Utah Idaho boundary 16,00 chs. E. of 75 mile mound Set a limestone 17 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 25 and 26 marked C.C.U. on S. with 1 groove on E edges: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. – Pits impracticable A closing cor. of the Idaho surveys bears E. 29 lks. dist. — Land sloping bench Soil gravelly wash 2nd rate No timber: Dense undergrowth of thorn and sage Dense undergrowth 1,26 chs. September 12: At this cor. I set off 3° 46' N. on the deck arc and at 11h 56m A.M., I and observed the sun on the meridian: the resulting lat. is 42° 0' N
	Thence the cor. of secs. 2-3-34 and 35 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general, I saw N 0° 2' W. bet secs. 34 and 35 On dry barren valley land
32,10	Road from Hansel Springs to Idaho bears N E and S. W. Enter dense undergrowth, bears N. E. and S.W. Thence on broken bench land
40,00	Set a sandstone 17 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins. N and S of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft. high W. of cor. —

Subdivision of T 16 N R 6 W. -

chains	
8,00	Set a sandstone 18 x 8 x 5 ins. 12 ins. in the ground for cor. of secs. 26-27-34 and 35 - marked with 1 notch on S, and 2 notches on E edges: dug 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 level valley and sloping bench.
	Soil gravelly wash 2nd rate.
	No timber:
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth - 47,90 chs. —
	East on a random line bet. secs. 26 and 35 -
4,00	Set temp. 1/4 sec. cor.
7,87	Intersect N and S line 21 lks. N of cor. of secs. 25-26-35 and 36
	Thence S run
	N 89° 57' W. on a true line bet. secs. 26 and 35 -
	Descending on graduab slope
	In dense undergrowth —
15,00	Leave dense undergrowth - bears N. and S.
	Enter level barren valley.
39,93 -	Set a sandstone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face dug pits 18 x 18 x 12 ins. S and W. of stone 3½ ft. dist.; and raised a mound of earth 3½ ft base 1½ ft. high N. of cor. —
	Enter dense undergrowth - bears N. and S.
54,30	Top of low ridge bears N. and S.
65,40	Road from Hansel spring to Idaho bears nearly N. and S.
79,87	The cor. of secs. 26-27-34 and 35 -
	Land level and gently sloping valley
	Soil gravelly wash 2nd rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth - 54,87 chs. —
	N 0° 2' W. bet. secs. 26 and 27
	Sw dense undergrowth

Subdivision of T. 15 N. R 6 W.

Chains	
1,50	Intersect Utah Idaho boundary 16,41 chs. E of 76 mile mound. —
	Set a sandstone 16 x 7 x 6 ins. 11 ins. in the ground for closing cor. of sees. 26 and 27 marked C.C.U. on S. with 2 grooves on E faces: dug pits 24 x 18 x 12 ins. crossing on each line E and W. 3 ft. and S of stone 7 ft. dist and raised a mound of earth 4 ft. base 2 ft. high S. of cor.
	Land sloping bench.
	Soil gravely wash 2nd rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 1.50 chs. —
	September 12, 1896
	September 13: From the cor. of sees 3-4-33 and 34 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the Surveyor. general I run
	N 0° 2' W. bet. sees. 33 and 34
	On mountainous land
	Descending on rolling slope to
16,00	Bottom of gulch 150 ft. deep course S 80° E
	Ascending to
24,50	Top of gulch and spur S 70° E: thence ascending gradually on rolling slope to
40,00	Set a sandstone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	This cor stands on top of a ridge sloping E.
	Descending to
56,60	Bottom of gulch 160 ft. deep course S 75° E
	Ascending on broken slope to
75,00	Top of ridge bears nearly E. and W.
	Descending to
80,00	Set a limestone 18 x 9 x 6 ins. 12 ins. in the ground for cor. of sees. 27-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edges:

chains	
	raised a mound of stones 2 ft. base 1½ ft. high
	W. of cor. — Pits impracticable. —
	Land mountainous
	Soil gravelly wash and bowlders 3d rate
	No timber
	Mountainous land 80,00 chs. —
	East on a random line bet. secs. 27 and 34
4,00	Set temp. 1/4 sec. cor.
80,14	Intersect N. and S. line 23 lks. N. of cor. of secs. 26-27-34 and 35
	Thence S. and
	N. 89° 50' W. on a true line bet. secs. 27 and 34
	On sloping bench, ascending gradually
	In dense undergrowth
16,50	At foot of mountains; bears N. and S.
	Leave dense undergrowth —
	Enter mountainous land.
	Ascending in ravine
30,00	Leave ravine; bears S. 80° W.
40,07	Set a limestone 17 x 7 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
49,00	Top of ridge, bears N. 70° E. and S. 70° W.
	Thence on broken slope N.
80,14	The cor. of secs. 27-28-33 and 34
	Land mountainous
	Soil gravelly wash and bowlders 3d rate
	No timber — Dense undergrowth of thorn and sage
	Mountainous land and dense undergrowth
	80,14 chs. —
	N 0° 2' W bet. secs. 27 and 28
	On mountainous land
	Descending W.
1,89	Intersect Utah & Idaho boundary 16,11 chs. E. of 77 mile mound
	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for closing cor. of secs. 27 and 28
	marked C C U on S. with 3 grooves on E.

Subdivision of T. 15 N. R. 6 W. —

chains	
	faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor. — Pits impracticable
	Land mountainous
	Soil gravelly wash and rocky 3d rate
	No timber
	Mountainous land 1,89 chs. —
	September 13: the weather being cloudy I could obtain no observation on the sun while on the meridian. —
	September 13: At 2h 10m p.m., I set off 41° 59' on the lat. arc 3° 21' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 4-5-32 and 33 on S. bdy of Tp.: which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run N. 0° 3' W. bet. secs. 32 and 33
	On mountainous land
	Ascending
22,00	Top of ridge bears N E and S W.
	Begin descent to
37,70	Bottom of gulch 200 ft. deep course E.
	Ascending
40,00	Set a sandstone 17 x 9 x 6 ins. 11 ins. in the ground for. 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
50,50	Top of spur 150 ft. high runs S. E.
	Descending to
66,25	Bottom of gulch 170 ft. deep course S. E.
	Ascending to
80,00	Set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for. cor. of secs. 28-29-32 and 33 marked with 1 notch on S and 4 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits impracticable. —
	Land mountainous
	Soil gravelly and rocky 3d rate
	No timber. —

Subdivision of T. 15 N. R. 6 W.

Chains	
	Mountainous land 80,00 chs. —
	S 89° 48' E on a random line bet. secs. 28 and 33
40,00	Set temp. 1/4 sec. cor.
80,28	Intersect N. and S. line 57 lks. S of cor of secs. 27-28-33 and 34
	Thence I run
	S 89° 49' W on a true line bet. secs. 28 and 33
	On mountainous land
	Ascending on bottom slope to
15,00	Top of ridge bears. N 75° W. and S 75° E
	Descending to
33,90	Bottom of gulch 140 ft. deep. course S E
	Thence on bottom S slope ascending
40,14	Set a limestone 18 x 7 x 6 ins. 12 ins. in the ground for. 1/4 sec cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft high N. of cor. - Pits impracticable
80,28	The cor. of secs. 28-29-32 and 33
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber. —
	Mountainous land 80.28 chs. —
	N 0° 3' W. bet. secs. 28 and 29.
	On mountainous land
	ascending
2,02	Intersect Utah Idaho-boundary 15,72 chs E. of 78 mile mound
	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for. closing cor. of secs. 28 and 29 marked C C U on S. with 4 grooves on E. faces, - raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
	Pits impracticable
	Land mountainous
	Soil gravely and rocky 3d rate
	No timber
	Mountainous land 2,02 chs. —
	September 13, 1896

Subdivision of T. 15 N R 6 W.

chains	September 14: at 8h 30m a.m., l.m.t. I set off 41° 59' on the lat. arc 3° 4' N on the decl. arc and determine a true meridian with the solar at the cor. of secs. 5-6-31 and 32 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general.—
	Thence I run N. 0° 4' W. bet. secs. 31 and 32
	On mountainous land
	Ascending on steep broken slope W. and few scattering cedars.—
14,000	Top of spur S 60° W. from main divide
	Thence on broken W slope to
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable
50,00	Top of spur S.W.: descending gradually to
65,00	at head of ravine draining S.W.
	Ascending to
80,00	Set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for cor. of secs. 29-30-31 and 32 marked with 1 notch on S. and 5 notches on E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable.—
	No trees of proper size within limits
	Land mountainous high and broken
	Soil gravely and rocky 3d rate
	Timber, scrubby cedar. scattering
	Mountainous land 80,00 chs.—
	S 89° 48' E. on a random line bet secs. 29 and 32
40,00	Set temp. 1/4 sec. cor.
80,26	Intersect N. and S. line at cor of secs. 28-29-32 and 33
	Thence I run
	N 89° 48' W. on a true line bet. secs. 29 and 32
	On mountainous land
	Descending gradually on S slope to
10,00	Head of gulch course S.E.

chains	
	ascending on broken slope.
40,13	Set a limestone 17 x 8 x 7 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable. —
72,00	Top of main ridge and watershed of Hansel Spring mountains bears N. and S. 200 ft above valley. —
	Descending to
80,26	The cor. of secs. 29-30-31 and 32
	Land mountainous very broken
	Soil gravely and rocky 3d rate
	Timber: scrubby cedar scattering on W. half
	Mountainous land 80,26 chs. —
	September 14 at this cor. I set off 3° 1' N on the decl. arc and at 11h 55m a.m., 2 m t observe the sun on the meridian; the resulting lat. is 42° 0' N
	N 89° 48' W on a random line bet. secs. 30 and 31
40,00	Set temp. 1/4 sec. cor.
79,30	Intersect W. bdy. of Tp. 6,81 chs. N. of cor. of secs. 25-30-31 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Set a limestone 18 x 10 x 5 ins. 12 ins. in the ground for closing cor. of secs. 30 and 31 marked C C on E. with 1 grove on S. and 5 groves on N. faces: raised a mound of stones 2 ft. base 1½ ft. high E. of cor.
	Pits impracticable. — I destroy markings on original pertaining to secs. 30 and 31
	Thence I run
	S 89° 48' E on a true line bet. secs. 30 and 31
	On mountainous land
	Ascending on broken slope, and scattering cedar timber
36,50	Top of ridge bears N. and S 400 ft. above cor.
	Descending
39,30	Set a limestone 22 x 11 x 5 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face raised a mound of stones 2 ft. base 1½ ft.

Subdivision of T. 15 N. R. 6 W.

chains	
	high N. of cor. – Pili impracticable
63,00	Bottom of gulch near ili head, course S 20° W. 350 ft. deep. –
	Ascending to
79,30	The cor. of secs. 29-30-31 and 32
	Land mountainous
	Soil gravely and rocky 3d rate.
	Timber; scrubby cedar scattering
	Mountainous land 79,30 chs. –
	N 0° 4' W. bet secs. 29 and 30
	On mountainous land
	Ascending on W slope
2,45	Intersect Utah Idaho boundary 15,90 chs. E of 79 mile post. –
	Set a limestone 18 x 10 x 7 ins. 12 ins. in the ground for closing cor. of secs. 29 and 30 marked C.C.U. on S. with 5 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. –
	Pili impracticable. –
	Land mountainous
	Soil rocky and gravely 3d rate
	No timber.
	Mountainous land 2,45 chs. –
	September 14. 1896

Retracement – T. 15 N. R. 6 W.

From the cor. of secs. 25-30-31 and 36 on W. bdy. of Tp. as already described I run North on a retracement line on W. bdy sec. 31 At 6,81 the closing cor. of secs. 30 and 31 and at 9,65 Intersect Utah Idaho boundary 16,32 chs. E of 80 mile stone; no closing cor being found at this point nor at 20,70 chs. as stated by the surveyor general I set a limestone 17 x 9 x 5 ins. 11 ins in the ground for closing cor. of Tps. 15 N Rs 6 and 7 W. marked C C U on S. with 6 groves on E and W. faces; raised a mound of

stones 2 ft. base 1½ ft. high S. of cor.
Pits impracticable.—
From the cor. of secs. 25 and 36 — I run South on W. bdy. of sec 31. — At 40.00 chs. intersect the ¼ sec. cor. and at 79.60 intersect the cor. of Tps. 14 and 15 N. Rs 6 and 7 W. Therefor the bearing is, & distance of this line is as stated by the surveyor general.—

From the Tp cor. as above stated I run S 89°48' E on S. bdy. of of sec. 31; at 40.00 chs. no ¼ sec cor could be found, 79.70 falls 6.45 chs. S. of the cor. of secs. 5-6-31 and 32. The course of this line is therefor N 85°36' E.— and not as stated by the surveyor general.

September 14, 1896

Boundaries of T. 15 N. R. 6 W.

Latitudes departures and closing errors

Line designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W.
		chs	chs	chs	chs	chs
East boundary	North	80.81	80.81			
Utah-Idaho boundary	West	479.74				479.74
West boundary	South	89.25		89.25		
South "	N 85°36' E	79.94	6.17		79.70	
" " "	S 89°48' E	121.75		0.42	121.75	
" " "	East	279.00			279.00	
Convergency						0.65
Totals			86.98	89.67	480.45	480.39
				86.98	480.39	
Errors in Lat. and dep.				2.69	0.06	

General Description

This township is composed of level valley and broken mountainous land.— The soil is gravelly and barren and no water exists within the township nor within close proximity and it is therefor of small value.— A small portion of the township is covered with a stunted growth of cedar.— There are no settlers within the township.—

Andrew P Swansen
U.S. Dep. Surveyor

Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., United States Deputy Surveyor, to assist in running, measuring, and

ıarking the lines and corners described in the foregoing field notes of the survey of .....

.....

ıowing 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

ıc ɔ parts or portions of the .....

.....

.....

..... of the ..... base

·ɟ meridian, ... of ....., which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey

·s been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the

ıc monuments established, according to the instructions furnished by the United States Surveyor

: ..eral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

, *Axman.*

....., *Flagman.*

.....

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

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

and ..... meridian, in the ..... of ....., which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further sol swear that all the corners of said survey have been established and perpetuated in strict accordance with Manual of Surveying Instructions, and the special written instructions of the United States Surve General for ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will su 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 Sept. 9, 1897

The foregoing field notes of the survey of The subdivisions of T15 N. R 6 W of the Salt Lake Base & Meridian, Utah

executed by Andrew P Hansen

under his contract No. 204, dated December 30th, 1895, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

George W Snow

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-243

No. 7.13.

FIELD NOTES

OF THE SURVEY OF

North Boundary,

of

Township No. 14 North Range No. 12 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Swensen, U. S. Deputy Surveyor,

der his Contract No. 204, dated December 30, 1895.

ey commenced September 18, 1896.

ey completed September 19, 1896.

(12503—2,000.)

#0.74.18

2.42

Names and Duties of Assistants.

E H Gix Chain[illegible]

J F Barnes " " "

F P Davies Flagman's Crew [illegible]

BOOK A-243

INDEX DIAGRAM.

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

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

Meanders Page ....

Preliminary Oaths of Assistants.

We, ____

____

____

do solemnly swear that we will well and faithfully execute the duties of chain carriers; that we will level the c[illegible] over even and uneven ground, and plumb the tally-pins either by sticking or dropping the same; that we will r[illegible] the true distance to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of [illegible] skill and ability, and in accordance with instructions given us in the survey of the ____________________

____

____

____

____

____________________, *Chainman*

____________________, *Chainman*

____________________, *Chainman*

____________________, *Chainman*

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

____

____

We, ____

____

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

____

____

____

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

____________________, *Axeman*

____________________, *Axeman*

____

____

6—151

North boundary of T. 14 N. R. 12 W. — Resurvey

chains

Survey commenced September 18, 1896 and executed with a Gurley light mountain Transit with solar attachment. - The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. -

The instrument was examined tested on the true meridian at Salt Lake, found correct and was approved by the surveyor general for Utah, April 24, 1896. —

At the cor. of secs. 5-6-31 and 32 on N. bdy. of Tp. 14 N. R. 12 W. Lat. 41° 59' N. Long. 113° 16' W. At 7h 32m p.m., l.m.t. I observe Polaris at eastern elongation in accordance with Manual of Instructions and mark a point in the line thus determined on a stake driven in the ground 5 chs. N. of my station. —

September 18, 1896

September 19: At 7h 10m a.m. l.m.t. I lay off the azimuth of Polaris 1° 41' to the west and mark the True Meridian thus determined on a stone set in the ground 5 chs. N. of my station. -

At 7h 30m a.m. l.m.t. I set off 41° 59' N. on the lat. arc. 1° 13' 30" N. on the decl. arc and mark a point in the true meridian determined by the solar on the stone already set 5 chs. N. of the cor. -

This mark agrees without material error with the True Meridian established by observation on Polaris and I therefor consider the adjustments of the instrument correct. —

The magnetic bearing of the True Meridian at 7h 30m a.m. is N. 17° 30' W; the angle thus determined reduced by the table page 100 gives mean mag. decl. 17° 27' E. —

From the sec. cor. above described which is a stone

chains	
	firmly set marked and witnessed as described by the surveyor general. I run
	West on a random line bet. secs. 6 and 31.
40,00	Set temp. 1/4 sec. cor.
74,88	Intersect E. bdry of Tp. 15 N. R. 13 W. 2,42 chs N. of cor of Tps. 14 and 15 N. Rs 12 and 13 W. which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Set a quartzite stone 18 x 12 x 10 ins. 12 ins. in the ground for closing cor. of Tps. 14 and 15 N. R. 12 W. marked C.C. on E. face with 6 grooves on N S and E faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. Pits impracticable.
	I destroy markings on E. edge of original cor of Tp. 14 and 15 N. Rs 12 and 13 W.
	Thence I run
	East on a true line bet. secs. 6 and 31.
	On gently rolling land
	In dense undergrowth —
10,75	Farm road bears S 70° E and N. 70° W.
14,04	Same road bears N. 75° E
30,76	Ditch 3 lks wide course N.
34,08	Same road bears S. 80° E
34,68	Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
	The cabin of Chas. Kempton bears N 38° 56' W. 3,90 chs
	The House of Chas. Lockwood bears S 20° 30' W 45 chs. —
36,40	Dry channel of Rice creek course N. at foot of mountains; begin ascent
	On mountainous land
57,88	Farm road bears N E and S.W. —
54,63	Top of ridge 200 ft high bears nearly N. and S.
	Begin descent in scattering cedar timber
65,98	Bottom of gulch 125 ft. below top of ridge course N.
	Ascending W
69,38	Top of ridge 50 ft. high course N and S
	Descending
74,88	The cor. of secs. 5-6-31 and 32

North boundary of T. 14 N. R. 12 W. – Resurvey

chains | Land rolling valley and mountainous slope soil in valley gravely loam 1st rate, on mountain wash and boulders 3d rate – Timber, scrubby cedar scattering Dense undergrowth of thorn and eagebrush Mountainous land and dense undergrowth 7488 chs. –

September 19, 1896

Boundaries of T. 14 N R 12 W.
Latitudes Departures and closing errors. –

Line designated	True bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
West boundary	South	487.62		487.62		
South "	S 89° 54' E.	480.45		0.84	480.45	
East "	North	484.65	484.65			
North "	(N 89° 53' W West	402.22 74.88)	0.88			477.10
Convergency						0.65
Totals			485.47	488.46 485.47	480.45 477.75	477.75
Errors in lat. and dep.				2.99	2.70	

Andrew P. Hanson
U.S. Dep. Surveyor

September 20, 1896

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List of Names.

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

Final Oath of Assistants:

~~We~~ I hereby certify that ~~we~~ I assisted Andrew P. Hansen, U. S. Deputy Surveyor, in surveying all parts or portions of the Exterior boundaries of Tps 14-13 and 12 N R 2 E Tp 13 N R 2 W Tp 15 N R 3 W - Tp 14 N RS. 2 and 3 W Tp 15 N Rs 4-5-6-12 and 14 W and Tp 14 N R 12 W

Salt Lake Base and Meridian, in the State of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all parts, to the best of ~~our~~ my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Utah

E. H. Giers, Chairman & Mundman

Sworn and sworn to before me this 28th day of September, 1896

SEAL

Henry R. M. Atkinson
Notary Public

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....Meridian, in the....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such ; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

Approval.

Office of the U. S. Surveyor General,

....., *18* .

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

.....

.....

.....

..... executed

.....

under his Contract No....., dated....., 18 , having been examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, hereby approved.

.....

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

List of Names.

A list of the names of the individuals employed by Andrew P Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Exterior Boundaries of Tps. 14-13 and 12 N R 2 E — Tp 13 N R 2 W Tp 15 N R 3 W - Tp 14 N RS 2 and 3 W — Tp 15 N RS 4-5-6-12 and 14 W and Tp 14 N R 12 W.

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

E. H. Giers Chainman or Measurman
J. L. Barnes Chainman or Measurman
F. P. Davies Flagman or Axman

Final Oath of Assistants:

We hereby certify that we assisted Andrew P Hansen, U. S. Deputy Surveyor, in surveying all those parts or portions of the Exterior boundaries of Tps. 14-13 and 12 N R 2 E. Tp 13 N R 2 W Tp 15 N R 3 W. Tp 14 N RS. 2 and 3 W Tp 15 N RS 4-5-6-12 and 14 W and Tp 14 N R 12 W

Salt Lake Base and Meridian, in the State of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Utah

~~E. H. Giers~~
J. L. Barnes Chainman or Measurman
F. P. Davies Flagman or Axman

Subscribed and sworn to before me this 25th day of September, 1896

SEAL

Andrew P Hansen
U S Deputy Surveyor

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....Meridian, in the....., as are represented in the going field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that the corners of said survey have been established and perpetuated in strict accordance with the surveying printed instructions, the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the true field notes of such and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of C approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah Sept. 9, 1897.

The foregoing field notes of the survey of The North Boundary, Township 4 North Range 12 West of the Salt Lake Base & Meridian, Utah

.....

.....

.....executed

Andrew P. Hansen

under his Contract No. 204, dated December 30th, 1895, having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

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BOOK A-243

FIELD NOTES

OF THE Re-SURVEY OF

Subdivision Lines

of

Township N 14 North Range No 12 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced September 19, 1896

Survey completed September 20, 1896

6—151

H 5,3L96

Cloning 31.05

Contgt N. Bdry — 1-02-22

" E — " 1-04-65

" Labs — 76.60

BOOK A-243

Names and Duties of Assistants.

E H Giers Chairman or Surveyors

J L Barnes " "

F P Davis Fl, " " Cr

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BOOK A-243

INDEX DIAGRAM.

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Meanders Page .....

Preliminary Oaths of Assistants.

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

.....

....., *Chainma*

....., *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 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

.....

.....

Chains

Survey commenced September 19, 1896 and executed with a Gurley light surveyor's transit with solar attachment; — for further description of which, and testing of adjustments — reference is hereby made to the resurvey of N. bdy. of this Tp., made this day.

From the cor. of Tps. 14 and 15 N. Rs. 11 and 12 W. which is a stone firmly set, marked and witnessed as described by the surveyor general. I run

N. 89° 53' W. on N. bdy. sec. 1 and at 40.00 chs. search for the 1/4 sec. cor. which could not be found within a radius of 3 chs.; at 82.27 chs. intersect the cor. of secs. 1-2-35 and 36 which is a stone firmly set, marked and witnessed as described by the surveyor general.

From the Tp. cor. I run north on E. bdy. of sec. 1 and at 40.00 chs. search for the 1/4 sec. cor. which could not be found within a radius of 3 chs.; at 84.65 chs. intersect the cor. of secs. 1-6-7 and 12 which is a stone firmly set, marked and witnessed as described by the surveyor general. — Therefore the bearings of N. and E. bdys. of sec. 1 are as stated by the surveyor general but the distances much in error. —

From the cor. of secs. 1-6-7 and 12. I run S. 89° 45' W. on S. bdy. of sec. 1 and at 39.00 chs. search for the 1/4 sec. cor. which could not be found within a radius of 3 chs.; at 76.60 chs. fall 12 lks. N. of cor. of secs. 1-2-11 and 12 which is a stone firmly set, marked and witnessed as described by the surveyor general. —

Therefore the bearing of this line is S. 89° 45' W. and neither bearing nor distance are as stated by the surveyor general.

I commence at the cor. of secs. 1-2-11 and 12 T. 14 N. R. 12 W.

Thence I run

Chains	
	N 0°1' W. on a random line bet. secs. 1 and 2
4,00	Set temp. 1/4 sec. cor.
85,55	Intersect N. bdy. of Tp. 6,11 chs. S 89°53' E of cor. of secs. 1-2-35 and 36 which is a stone firmly set marked and witnessed as described by the surveyor general.—
	Set a quartzite stone 18 x 7 x 5 ins. 12 ins. in the ground for closing cor. of secs. 1 and 2 marked C.C. on S. with 1 groove on E and 5 grooves on W. faces: raised a mound of stones 2 ft. base 1½ ft. high S. of cor.—
	Pits impracticable
	Thence I run
	S 0°1' E on a true line bet. secs. 1 and 2
	On gently rolling valley land
	In dense undergrowth
45,55	Set a quartzite stone 17 x 9 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft. high W. of cor.— Pits impracticable
	I found no trace of original 1/4 sec. cor. on this line.—
86,55	The cor. of secs. 1-2-11 and 12
	Land rolling
	Soil gravely wash 1st rate
	No timber
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 85,55 chs.—

From the cor. of secs. 2-3-10 and 11 which is a stone firmly set marked and witnessed as described by the surveyor general. I run N 0°2' W. on a random line bet. secs. 2 and 3

4,00	Set temp. 1/4 sec. cor.
86,90	Intersect N. bdy. of Tp. 6,50 Chs. S 89°53' E of cor. of secs. 2-3-34 and 35 which is a stone firmly set marked and witnessed as described by the surveyor general.—
	Set a quartzite stone 17 x 7 x 6 ins. 11 ins. in the ground for closing cor. of secs. 2 and 3 marked

Chains	
	C.C. on S with 2 grooves on E and 4 grooves on W. faces; raised a mound of stones 2 ft. base 1½ ft. high S of cor. — Pits impracticable
	Thence I run
	S 0° 2' E on a true line bet. secs. 2 and 3
	On gently rolling valley land
	In dense undergrowth
23,00	Descending break 20 ft deep to creek bottom
26,05	Dry wash 8 ft. wide course N. E.
45,90	Set a quartzite stone 18 × 6 × 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable. No trace of old 1/4 sec. cor.
71,80	Ascending break 25 ft. high course E and W.
	Enter scattering cedar timber
85,90	The cor. of secs. 2-3-10 and 11
	Land, rolling valley
	Soil gravelly wash 1st and 2nd rate
	Timber scrubby cedar scattering
	Dense undergrowth of sagebrush and chaparral
	Dense undergrowth 85,90 chs. —
	September 19, 1896

	September 20: From the cor. of secs. 3-4-9 and 10 which is a stone firmly set marked and witnessed as described by the surveyor general, I run
	N 0° 2' W. on a random line bet. secs. 3 and 4
40,00	Set temp. 1/4 sec. cor.
86,20	Intersect N. bdy. of Tp. 6, 36 Ch. S 89° 53' E of cor. of secs. 3-4-33 and 34 which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Set a quartzite stone 17 × 9 × 7 ins. 11 ins. in the ground for closing cor. of secs. 3 and 4 marked C.C. on S. with 3 grooves on E and W. faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor.
	Thence I run
	S. 0° 2' E. on a true line bet. secs. 3 and 4
	On mountain land.

chains
Ascending gradually in scattering cedar timber
16,50 Dry wash in gulch 60 ft deep drains N. 25° E.
46,20 Set a quartzite stone 18 x 7 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face raised a mound of stones 2 ft. base 1½ ft high W. of cor.— Pits impracticable. No trace of old cor.
56,30 Top of spur 150 ft. high running N. E.
Descending on broken surface to
86,20 The cor. of secs. 3-4-9 and 10
Land mountainous broken and rolling
Soil gravely wash and boulders 32 rate
Timber, scrubby cedar scattering
Mountainous land 86,20 chs.—

September 20: at 9h 55m a. m., Z m T. I set off 41° 58' on the lat. arc 0° 43' 30" N. on the decl arc. and determine a true meridian with the solar at the cor. of secs. 4-5-8 and 9 which is a stone firmly set marked and witnessed as described by the surveyor general
Thence I run
N 0° 3' W. on a random line bet. secs. 4 and 5
40,00 set temp. 1/4 sec. cor.
86,96 Intersect N. bdy. of Tp 6, 12 chs. S 87° 53' E of cor. of secs. 4-5-32 and 33 which is a stone firmly set marked and witnessed as described by the surveyor general.—
Set a limestone 16 x 8 x 5 ins. 10 ins. in the ground for closing cor. of secs. 4 and 5 marked C.C. on S with 4 grooves on E and 2 grooves on W. faces: thence
A cedar tree 4 ins. diam. bears S 18° 10' W. 83 lks. dist. marked T 14 N. R. 12 W. S. 5 B.T.
A cedar tree 6 ins. diam. bears S 55° 30' E. 64 lks dist. marked T. 14 N. R. 12 W. S. 4 B.T.
Thence I run
S 0° 3' E on a true line bet secs. 4 and 5
On mountainous land
Ascending gradually on broken slope in cedar timber
38,50 Top of spur S. W. 100 ft. high

Chains	
	Descending to
46,96	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inspectable. — No trace of old cor.
57,50	Dry wash in ravine 60 ft. deep course N.E.
	Ascending on rolling surface to
66,00	Top of spur N.E. 90 ft. high
	Descending to
81,40	Dry wash in bottom of gulch 75 ft deep course N.E.
	Ascending to
86,96	The cor. of secs. 4-5-8 and 9
	Land mountainous, broken and rolling
	Soil gravelly wash and boulders 3rd rate
	Timber scrubby cedar scattering
	Mountainous land 86.96 chs.-
	Sep. 20: at this cor. I set off 0°41'30" N. on the decl. arc. and at 11h 53m a.m. I m t observe the sun on the meridian: the resulting lat. is 41°58' N

	From the cor. of secs. 5-6-7 and 8 which is a stone firmly set marked and witnessed as described by the surveyor general, I run N 0°4' W. on a random line bet secs. 5 and 6
40,00	Set temp. 1/4 sec. cor.
87,35	Intersect N. bdy of Tp. 5,96 ch. S 88°53' E of cor. of secs. 5-6-31 and 32
	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 5 and 6 marked C.C. on S. with 1 grove on W and 5 groves on E faces; raised a mound of stones 2 ft. base 1½ ft. high S. of cor. — Pits inspectable
	Thence I run S 0°4' E on a true line bet secs. 5 and 6 on mountainous land
	On rolling W. slope in scattering cedar timber
7,65	Bottom of gulch course N. 30° W
	Begin ascent on N.E. slope

Subdivision of T 14 N R 12 W. — Reserve

chains	
47,35	Set a quartzite stone 17×9×6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. —
	Pits inaccessible. - Could find no trace of the 1/4 sec. cor.
60,60	Top of ridge 5 00 ft above closing cor, bears N 30° W and S. 30° E
	Descending.
81,00	Descent becomes gradual and rolling
87,35	The cor. of secs. 5-6-7 and 8
	Land mountainous, broken
	Soil gravelly wash and bowlders 3d rate
	Timber scrubby cedar of small size scattering
	Mountainous land 87 35 chs. —

September 20, 1896

The resurveyed portion of this township is composed of rolling broken foothills and much land. — The soil is a gravelly wash, and the greater portion is covered with a stunted growth of cedar mostly scattering. -
There is no water with the exception of Rice creek in sec 6 which is a small stream
Chas Lockwood has a claim in sec 6 and about 30 acres under cultivation: there are no other settlers. —

Andrew P Hanson
U.S Deputy Surveyor

I destroyed all markings on cors. on the N. bdy. of this Tp. referring to Tp. 14 N. R 12 W.

Andrew P Hanson
U.S. Dep. Surveyor.

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., 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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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, Sept. 9, 1897

The foregoing field notes of the survey of the subdivisions of Township 14 North Range 12 West of the Salt Lake Base & Meridian, Utah

executed by Andrew T. Hanson under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Sears
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-243

FIELD NOTES

OF THE RE SURVEY OF

Subdivision Lines

of

Township No. 15 North Range No. 12 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P. Hanson, United States Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895

Survey commenced September 21, 1896

Survey completed September 21, 1896

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ch. chs
+ 14.44 ×
2.24 ×

BOOK A-243

Names and Duties of Assistants.

E H Giers Chainman or Moundman

J L Barnes " " "

F P Davies Flagman on Axman

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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

.....

Subdivision of T.15 N. R.12 W. — Resurvey

chains	Survey commenced September 21, 1896 and executed with a Gurley light Mountain Transit with solar attachment. — For further description of which and testing of adjustments reference is hereby made to the survey of N. bdy. of T.14 N. R.12 W. dated September 18-19, 1896
	At the cor. of secs. 29-30-31 and 32 which is a stone firmly set marked and witnessed as described by the surveyor general; at 8h 30m a.m. l m t I set off 42° 0' on the lat. arc 0° 22' N. on the decl. arc and determine a true meridian with the solar. —
	Thence I run
	West on a random line bet. secs. 30 and 31
4,00	Set temp 1/4 sec. cor.
74,44	Intersect W. bdy of Tp. 2,24 chs N. of cor. of secs. 25-30-31 and 36 which is a stone firmly set marked and witnessed as described by the Surveyor General. —
	Set a granite stone 18x10x6 ins. 12 ins. in the ground for closing cor. of secs. 30 and 31 marked CC on E. face with 1 groove on S. and 5 grooves on N. faces; raised a mound of stones 2 ft. base 1½ ft. high E. of cor. —
	Pits impracticable. — I destroy markings on original cor. pertaining to secs. 30 and 31
	Thence I run
	East on a true line bet. secs. 30 and 31
	On gently rolling land
	In dense undergrowth —
34,44	Set a quartzite stone 18x7x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
35,60	Old road bears N. and S.
49,79	Road from Kelton to Clear Creek bears N.W. and S.E.
52,28	Rice creek 2 lks. wide course N.
74,44	The cor. of secs. 29-30-31 and 32
	Land rolling valley
	Soil gravely loam 1st rate

Subdivision of T15 & R12 W. — Reserve

Chains	No timber Dense undergrowth of thorn and sagebrush Dense undergrowth — 74,44 chs. — September 21, 1896

There is one settler in sec. 31 of this Tp. who has 5 to 10 acres under cultivation and a log house near the south boundary of the sec. Rice creek which runs through sec. 31 is a stream several feet wide during the spring months but nearly dry the remainder of the year. —

Andrew P. Hanson
U.S. Deputy Surveyor

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Final Oaths of Deputy Surveyor and his Assistants.

LIST OF NAMES.

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

....., 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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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, Sept. 9, 1897

The foregoing field notes of the survey of The subdivision of Township 15 North Range 12 West of the Salt Lake Base & Meridian, Utah

executed by Andrew T. Harrison under his contract No. 204, dated December 30th, 1895, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Sweet
United States Surveyor General.

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

United States Surveyor General.

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PAGE

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K.J.B.

BOOK A-243

FIELD NOTES

OF THE SURVEY OF

Subdivision Lines

of

Township No 15 North Range No 14 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew P Hansen, U. S. Deputy Surveyor,

Under his Contract No. 204, dated December 30, 1895.

Survey commenced September 21, 1896.

Survey completed September 24, 1896.

(8670—2,000.) 6—151

+ 9 39 04
2 11 09
2 14 52
11.50
W.B. - Cor. of 21.00

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Names and Duties of Assistants.

E H Giers Chainman or Monceolman

J L Barnes " " "

F P Davies Flagman or Axman

BOOK A-243

INDEX DIAGRAM.

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Meanders Page.....

Preliminary Oaths of Assistants.

WE, ...

.....

.....

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

.....

.....

.....

.....

.....*, Chainman.*

.....*, Chainman.*

.....*, Chainman.*

.....*, Chainman.*

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

.....

.....

WE, ...

.....

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

.....

.....

.....

.....

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

.....*, Axeman.*

.....*, Axeman.*

.....

.....

.....

Subdivision of T. 15 N. R. 14 W.

chains

Survey commenced September 21. 1896 and executed with a Gurley light mountain transit with solar attachment:— The horizontal limb is provided with two double verniers placed opposite to each reading to single minutes of arc: which is also the least count of the verniers of the latitude and declination arcs.—
The instrument was examined, tested on the true meridian at Salt Lake: found correct and was approved by the surveyor general for Utah April 24. 1896
At the cor. of secs. 1-2-35 and 36 on S. bdy. of Tp. 15 N. R. 14 W. latitude 41° 59' N. longitude 113° 25' W. At 7h 20m p m, l m t I observe Polaris at eastern elongation in accordance with manual of Instructions and mark a point in the line thus determined on a stake driven in the ground 5 chs. N. the cor.—

September 21, 1896

September 22: At 8h 5m a m, l m t I lay off the azimuth of Polaris 1° 41' to the West and mark the True Meridian thus determined on a stone set in the ground 5 chs. N. of my station.—
I now set off 41° 59' on the lat. arc 0° 1' S. on the decl. arc and mark a point in the true meridian determined with the solar on the stone already set 5 chs. N. of my station; this mark agrees with the true meridian established by observation on Polaris without material difference and I therefor conclude the adjustments of the instrument are correct.—
The magnetic bearing of the true meridian at 8h 15m a m is N 17° 31' W.: the angle thus determined reduced by the table page 100 gives mean mag. decl. 17° 28' E.—

Subdivision of T. 15 N. R. 14 W.

chains	
	I commence at the cor. of secs. 1-2-35 and 36 on S. bdy. of Tp., which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run
	N 0° 1' W. bet. secs. 35 and 36
	Descending gradually on broken slope
	In dense undergrowth —
21,91	Irrigating ditch 4 lks wide flows N. W.
24,00	Same ditch
24,95	Leave " turns N. W.
35,85	Same ditch course N. 20° E.
40,00	Set a quartzite stone 18 x 9 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
44,70	Same ditch course N. W.
45,80	" " " N. E.
47,80	" " " N. W.
60,36	Road to George creek bears. E and W.
61,16	Fence bears nearly E. and W.; enter claim of L D Barnes
64,08	Same ditch course N. E.
65,12	Enter cultivated land bears E and W.
	Leave dense undergrowth
78,79	South side of L D Barnes house course E and W.
79,06	North " " " " "
80,00	Set a quartzite stone 18 x 6 x 5 ins. 12 ins. in the ground for cor. of secs. 25-26-35 and 36 marked with 1 notch on S. and E. edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
	W spring of cold pure water 16 lks diam. bears S 42° 20' E 1.47 chs.
	The N W. cor. of a log cabin 10 x 7 ft. bears S. 19° 16' E. 2.9 chs. —
	Land, sloping rolling bench land
	Soil gravelly wash, with many bowlders on south part; below fence 1st rate balance 2d rate —
	Not timbered
	Dense undergrowth of thorn and sagebrush

Subdivision of T 16 N. R. 14 W.

chains	Dense undergrowth – 65,12 chs. —
	East on a random line bet. secs. 25 and 36
40,00	Set temp. 1/4 sec. cor.
79,56	Intersect E bdy of Tp 42 blz. S of cor. of secs. 25-30-31 and 36 which is a stone fence set marked and witnessed as described by the surveyor general
	Thence I gave
	S 89° 42' W. on a true line bet secs. 25 and 36. –
	Cut mountainous land
	Descending
8,55	Bottom of draw 100 ft below cor. course S. W.
	Ascending gradually on tedious steep hill
14,80	Top of ridge S.W.
	Descending steep slope to –
20,85	At foot of mountains, bears N. 30° W. and S. 30° E
	Enter rolling bench land
	Leave mountainous land
22,15	Dry wash course N 30° W.
22,29	Fence bears N. 25° W and S 25° E
	Enter cultivated field. course N and S
25,70	Dry wash course nearly N.
30,50	Ditch 4 ft. wide course N.
30,80	Fence bears N. and S.
	Leave cultivated land
	Enter dense undergrowth –
39,78	Set a quartzite stone 18 x 10 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. Pits exhausted.
46,70	Enter cultivated land, course N. and S.
	Leave dense undergrowth –
59,50	House of Wm Holt bears N 4° 10' E 2,95 chs. –
59,79	Fence bears N. and S. : enter lane
60,10	Road bears N and S
60,30	Fence bears N. and S. : enter new pasture
66,50	Ditch 4 ft. wide course N. E.
75,80	Fence bears N. and S : enter corral and yard of L D Barnes

Subdivision of T. 15 N. R. 14 W.

chains	
78,55	Spring branch 4 lks wide course N
79,56	The cor. of secs. 25-26-35 and 36
	Land mountainous, and sloping bench
	Soil gravely wash, with bowlders on mountainous
	slope; bench 1st class
	No timber.-
	Dense undergrowth of sagebrush and thorn
	36,75 chs.—
	N 0° 1' W. bet. secs. 25 and 26
	On level land; raw pasture
13,08	Intersect Utah & Idaho boundary 30,75 chs. N. 89° 33' E of
	121 mile post.
	Set a quartzite stone 24 x 11 x 5 ins. 18 ins. in the
	ground for closing cor. of secs. 25 and 26
	marked C.C.M. on S. with 1 groove on E. faces;
	raised a mound of stones 2 ft. base 1½ ft. high
	S. of cor. - Pits impracticable.-
	This cor. stands in line of fence running E. and W.
	Land level
	Soil gravely loam 1st rate
	No timber.-
	September 22: The sky being overcast during
	the noon hour I could not observe the sun on
	the meridian.
	From the cor. of secs. 2-3-34 and 35 on S. bdy. of
	Tp. which is a stone firmly set marked and
	witnessed as described by the surveyor general
	I run
	N. 0° 2' W. bet. secs. 34 and 35
	On mountainous land
	Ascending in cedar timber
16,00	Top of spur N. 70° E. 100 ft. above cor.
	Descending on broken slope
33,00	Foot of mountains bears. N. 25° W. and S. 25° E.
	Leave cedar timber; enter rolling bench land
	Leave mountainous land
33,22	Fence bears. S 25° E and, N 25° W — turns N. 1,20
	chs W. of line.-

Subdivision of T. 15 N. R 14 W.

chains	
	Enter claim of Wm McInire
34,00	Wm McInire's House bears. N 76°40' E 14,00 chs.
35,67	Farm road bears N.W. and S. 75° E
37,46	Ditch 4 lks. wide course N. 20° W.
	Enter cultivated land bears E. and W.
40,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. Pits inpracticable
48,25	Leave cultivated land bears E. and W.
	Enter dense undergrowth —
60,44	Fence bears E. and W.; turn N. 10 chs W. of line
60,28	Ditch 4 lks. wide from S. turns E
75,25	Enter cultivated land, bears S.E. and N.W.; ditch 4 lks wide course N.W.
	Leave dense undergrowth —
80,00	Set a granite stone 22 x 10 x 4 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 E edges; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. - Pits inpracticable
	Land mountainous and rolling bench
	Land, on mountainous part rocky 3d rate; on bench gravelly wash 1st rate
	Timber scrubby cedar. -
	Dense undergrowth of thorn and sagebrush
	Mountainous land and dense undergrowth —
	60,00 chs.

	East on a random line bet. secs. 26 and 35
40,00	Set temp. 1/4 sec. cor.
80,30	Intersect N. and S. line at cor. of secs. 25-26 35 and 36
	Thence I run
	West on a true line bet. secs. 26 and 35
	on level cultivated land
20,53	Fence bears N. and S.; enter lane; leave cultivated land
21,11	Road From Idaho to George Creek bears N. and S.
21,48	Fence bears N and S
	Enter dense undergrowth —
30,00	House of R.S. Barnes bears. N 38°45' E 6,50 chs.
33,75	Fence bears N 28° E and S 28° W.

Subdivision of T. 15 N. R. 14 W.

Chains	
34,39	Ditch 4 chs. wide flows N 28° E
	Enter cultivated field bears N 28° E and S 28° W.
	Leave dense undergrowth –
40.15	Set a quartzite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N face; raised a mound of stones 2 ft. base 1½ ft. high N of cor. – Pits impracticable
	House of O D McIntire bears N 69° 55' W.
51,60	Leave cultivated land bears N. and S.
	Enter dense undergrowth –
57,72	Fence bears N. and S.
59,93	Road from Idaho to George Creek bears N. and S.
60,28	Ditch 4 chs wide course N.
60,44	Fence bears N. and S
60,55	Ditch 4 chs wide course N.; enter cultivated land.
	Leave dense undergrowth –
69,00	O D McIntire House as before bears N 35° 38' E
76,28	One Mile Creek 2 chs wide flows N. in fringe of tall brush.
	Begin gradual ascent
80,30	The cor. of secs. 26-27-34 and 35
	Land, gently rolling bench land
	Soil gravely loam 1st rate
	No timber;
	Dense undergrowth of thorn and sagebrush
	Dense undergrowth 21,86 chs. – –

	N 0° 2' W. bet. secs. 26 and 27
	On level cultivated land
10,90	Fence bears E. and W.; leave cultivated land, enter lane
11,28	Wood road bears E. and W.
11,51	Intersect Utah Idaho boundary 31,58 chs. N 88° 07' E of 122 mile post.
	Set a quartzite stone 18 x 8 x 7 ins. 12 ins. in the ground for closing cor. of secs. 26 and 27 marked C.C.C. on S. with 2 grooves on E. faces raised a mound of stones 2 ft. base 1½ ft. high S of cor. Pits impracticable.

Subdivision of T. 15 N. R 14 W.

chains	
	Land, level bench land Soil gravelly loam 1st rate No timber. — September 22, 1896
	September 23; from the cor. of secs. 3-4-33 and 34 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general, I run N. 0° 3' W. bet. secs. 33 and 34 On mountainous land Ascending in scattering cedar timber to-
14,00	Top of spur N.E.
	Descending to-
25,40	Bottom of gulch draining N.E. 150 ft. deep
	Ascending on rolling surface to-
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. — Pits inspectable
50,00	Top of spur N. 30° E.: descending on broken slope to-
80,00	Set a quartzite stone 18 x 8 x 6 ins. 12 ins. in the ground for cor. cor. of secs. 27-28-33 and 34 marked with 1 notch on S. and 3 notches on E. edges. Witness a cedar tree 7 ins. diam. bears N 27° 35' E 59 lks. dist marked T. 15 N. R. 14 W. S 27 B.T. a cedar tree 7 ins. diam. bears S 46° W. 27 lks dist. marked T 15 N R 14 W. S. 33 B.T. a pitch tree 6 ins. diam. bears N. 62° 55' W. 43 lks dist marked T 15 N R 14 W S. 28 B.T. No other trees within limits; raised a mound of stones 2 ft. base 1½ ft. high W. of cor. This cor. stands 600 ft. below cor of secs. 3-4-33 and 34. — Land mountainous Soil gravelly and rocky 3rd rate Timber, scrubby cedar scattering Mountainous land 8,00 chs. —

chains	
	East on a random line bet. secs. 27 and 34
4,00	Set temp. 1/4 sec. cor.
8,00	Intersect N. and S. line 10 lks N. of cor. of secs. 26-27-34 and 35
	Thence I run N 89° 56' W. on a true line bet. secs. 27 and 34
	On cultivated land; ascending gradually
2,50	Ditch 4 lks. wide course N W
8,74	Intersect old cabin and shed bearing N. and S.; claimed by O. D. McIntire
9,04	Leave shed
10,37	Fence N. and S.; and Ditch running N. 4 lks wide
	Standrod Post Office bears N. about 4 chs. N of Utah Idaho boundary. —
	Leave cultivated land bears N. and S:
	Enter dense undergrowth —
21,46	Line of fence posts bears N. and S.
26,80	Foot of mountain bears nearly N. and S.
	Leave dense undergrowth —
	Enter Mountainous land
4,00	Set a limestone 18 x 12 x 9 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. — Pits impracticable
44,00	Enter cedar timber bears N. and S.
58,00	Ravine 35 ft. deep drains N: thence on N. E. slope
80,00	The cor. of secs 27-28-33 and 34
69,63 / 10,37	Land, sloping bench, and mountainous soil, on bench gravely wash 1st rate; on mountainous rocky, 3d rate
	Timber scrubby cedars mainly scattering
	Dense undergrowth of thorn and sagebrush
	Mountainous land and dense undergrowth —
	69,63 chs —
	N 0° 3' W. bet. secs. 27 and 28
	On mountainous land
	Descending in cedar timber
4,50	Leave timber bears E. and W.
10,40	Intersect Utah Idaho boundary 32,11 chs. + 89° 08' E of 123 mile post
	Set a limestone 18 x 8 x 5 ins. 12 ins. in the

chains	ground for closing cor. of secs. 27 and 28 marked C.C.U. on S. with 3 groves on E. faces raised a mound of stones 2 ft. base 1½ ft. high S. of cor. – Pits impracticable Land mountainous broken slope Soil gravely wash and boulders 3d rate Timber scrubby cedar Mountainous land 10,40 chs. – Sep. 23: at this cor. I set off 0° 29' S. on the deeb arc and at 11h 52m a.m., 7 m.t. observe the sun on the meridian: the resulting lat. is 42° 0' N. –
	Sep. 23: at 2h 15m p.m., 7 m.t. I set off 41° 59' on the lat. arc. 31' S. on the deeb arc and determine a true meridian with the solar at the cor. of secs. 4-5-32 and 33 on S. bdy of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. – Thence I run N 0° 3' W. bet. secs. 32 and 33 On mountainous land Descending gradually on broken slope
23,00	Head of gulch course N. 10° E Thence on E. slope
40,00	Set a limestone 18 x 8 x 7 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable
45,00	Enter cedar timber, mainly scattering
80,00	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 28-29-32 and 33 marked with 1 notch on S. and 4 notches on E. edges: raised a mound of stones 2 ft. base 1½ ft. high W. of cor. – Pits impracticable: – This cor. stands 800 ft. below the cor. of secs. 4-5-32 and 33 Land mountainous, broken slopes

Subdivision of T. 15 N. R 14 W.

Chains	
	Soil gravelly and rocky 3d rate
	Timber, scrubby cedar scattering
	Mountainous land 80,00 chs. —

	East on a random line bet. secs. 28 and 33
4,00	Set limst. 1/4 sec. cor.
80,20	Intersect N. and S. line at cor. of secs. 27-28-33 and 34
	Thence 9 rods
	West on a true line bet. secs. 28 and 33
	On mountainous land
	Ascending on broken slope in cedar timber
6,70	Ravine 30 ft. deep drains N.
11,50	Top of spur 120 ft high running N.
	Descending W
18,50	Bottom of gulch 150 ft deep course N
	Ascending
26,15	Top of steep ascent 350 ft above gulch; ascending gradually on N. E. slope.
40,10	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face
	Thence
	A pinion tree 8 ins. diam. bears S 72° 6' W 24 lks. marked 1/4 S B.T.
	A pinion tree 6 ins. diam. bears S. 85° E. 22 lks. dist, marked 1/4 S.B.T.
5,00	Top of spur N.
	Begin gradual descent on broken slope
66,00	Descending to gulch on steep slope
74,00	Bottom of gulch 400 ft deep course N
	Begin ascent
80,10	The cor. of secs. 28-29-32 and 33
	This cor. stands 100 ft. above bottom of gulch on E slope
	Land mountainous
	Soil gravelly and rocky 3d rate
	Timber, scrubby cedar and pinion scattering
	Mountainous land 80,10 chs. —

	N 0° 3' W. bet. secs. 28 and 29
	Do mountainous land

Subdivision of T. 15 N. R. 14 W.

chains	
	Descending gradually on broken slope: in scattering timber
9,36	Intersect Utah Idaho boundary 32,80 chs. N 89°12' E of 124 mile post
	Set a limestone 17 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs. 28 and 29 marked C.C.U on S. with 4 groves on E. faces
	Whence
	A cedar tree 6 ins. diam. bears. S 21° 32' E. 46 lks. marked T. 15 N. R. 14 W. S 33 B.T
	A cedar tree 7 ins. diam. bears. S 0° 30' W. 40 lks. marked T 15 N R 14 W. S. 32 B.T. -
	Raised a mound of stones 2 ft. base 1½ ft. high S. of cor. —
	Land Mountainous.
	Soil gravelly and rocky 3d rate
	Timber, scrubby cedar scattering
	Mountainous land 9,36 chs. —
	September 23, 1896
	September 24: at 8h 0m a.m. I m t I set off 41° 59' on the lat are 47° 30" S. on the decl. arc and determine a true meridian with the solar at the cor. of secs. 5-6-31 and 32 on S. bdy. of Tp. which is a stone firmly set marked and witnessed as described by the surveyor general. —
	Thence I run
	N 0° 4' W. bet. secs. 31 and 32
	On mountainous land
	Descending in cedar timber
4,41	Wood road in bottom of gulch course N 25° W.
	Thence on broken W. slope
40,00	Set a limestone 18 x 9 x 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face raised a mound of stones 2 ft. base 1½ ft high W. of cor. - Pits impracticable
	No trees of proper size within limits
42,00	Top of spur W. I begin descent on broken slope
80,00	Set a limestone 18 x 8 x 6 ins. 12 ins. in the ground for cor. of secs. 29-30-31 and 32

chains	marked with 1 notch on S. and 5 notches on E. edges: whence
	A pinion tree 10 ins. diam. bears N 3° 40' W. 11 lks. dist. marked T 15 N. R. 14 W. S 30 B.T.
	A cedar tree 9 ins. diam. bears S 29° 20' W. 12 ft. dist. marked T. 15 N. R. 14 W. S. 31. B.T.
	A pinion tree 6 ins. diam. bears S. 49° 18' E. 12 lks dist. marked T. 15 N. R 14 W S 32 B.T.
	No other trees within limit: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Land mountainous, deep broken slope
	Soil gravelly and rocky 3rd rate
	Timber scrubby cedar and pinion mainly scattering
	Mountainous land 80,00 chs. —
	East on a random line bet secs 29 and 32
40,00	Set temp 1/4 sec. cor.
79,84	Intersect N. and S. line 18 lks. S of cor. of secs. 28-29-32 and 33
	Thence I run
	S. 89° 52' W. on a true line bet. secs 29 and 32. —
	On mountainous land
	Ascending, in cedar timber
1,60	Top of ridge bears N. and S.
	Begin descent
6,60	Bottom of ravine 150 ft deep course N.
	Ascending W
33,70	Top of spur N. from divide between One Mile and George Creek, 500 ft above ravine
	Descending
36,70	Leave timber bears N. and S.
37,92	Set a limestone 18 x 10 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face: raised a mound of stones 2 ft. base 1½ ft. high N. of cor. —
	Pits impracticable. —
64,42	Bottom of gulch 450 ft. below spur, course N 25° W
	Ascending W

Chains	
73,70	Top of spur N. 200 ft above gulch
	Descending
79,84	The cor. of secs. 29-30-31 and 32
	Land mountainous, very broken
	Soil gravely and rocky 3d rate
	Timber scrubby cedar and pinion mainly
	scattering. —
	Mountainous land 79,84 chs. —
	September 24: The sky being overcast
	during the noon hour I could not observe
	the sun on the meridian. —
	West on a random line bet. secs. 30 and 31
40,00	Set temp. 1/4 sec. cor.
78,40	Intersect W. bdy. of T.p. 14,94 chs. N. of cor.
	of secs. 25-30-31 and 36 which is a stone
	firmly set marked and witnessed as described
	by the surveyor general. —
	I describe marking on E. edge of said cor.
	thence at the intersection
	Set a quartzite stone 18 x 9 x 6 ins. 12 ins
	in the ground for closing cor. of secs. 30
	and 31 marked C.C. on E with 1 groove on
	S and 5 grooves on N. faces; raised a
	mound of stones 2 ft. base 1½ ft. high E. of cor.
	A cedar tree 4 ins. diam. bears S 58° 30' E
	96 lks dist. marked T. 15 N. R. 14 W. S. 31 B.T.
	A cedar tree 12 ins. diam. bears N 33° 56' E
	1,37 chs. dist. marked T 15 N R 14 W. S 30 B.T.
	Thence I run
	East on a true line bet. secs. 30 and 31
	On mountainous land
	Descending in scattering cedar timber
6,00	Bottom of gulch 50 ft deep course N
	ascending W
7,70	Top of spur N.; descending W
14,00	Bottom of gulch 80 ft deep course N 25° W.
	Ascending W
17,30	Top of ridge bears N 20° W and S 20° E.
24,00	Ravine 60 ft deep draines N.

Chains	
28,60	Top of ridge and wood road bears N 20° W and S 20° E.
	Begin descent
31,50	Fence bears N 20° W. and S 20° E.
32,40	A partly finished cabin bears N 33° E
32,50	Foot of slope; enter bottom of gulch
33,40	Stream 5 lks wide flows N 20° W.; ascend gradually
34,30	Enter flowed land bears N 20° W and S 20° E
35,30	Leave " " " " " "
36,40	Enter " " " " " "
37,40	Leave " " " " " "
38,40	Set a limestone 18 x 10 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; raised a mound of stones 2 ft. base 1½ ft high N. of cor. — Pits impracticable
	Cabin as before bears N 69° 35' W.; no occupant and name of claimant could not be learned
39,15	Line of fence posts bears N 15° W and S 15° E.
39,80	Dry ditch 3 lks. wide course N 15° W.
	Enter cedar timber bears N and S.
48,90	Top of ridge 140 ft above ditch, course N 15° W and S 15° E.
	Descending to
52,40	Leave timber bears N and S.
53,40	Spring branch N 1,50 chs.; drains N. 5 lks. wide in bottom of gulch, course N 12° W
55,70	Begin ascent
57,90	Enter cedar timber bears N and S.
75,40	The cor. of sec. 29-30-31 and 32.
	This cor. stands 300 ft. above bottom of gulch
	Land mountainous, broken and rolling
	Soil gravelly wash and boulders 2nd and 3rd rate
	Timber scrubby cedar and pinion mainly scattering
	Mountainous land 78,40 chs. —
	N 0° 4' W. bet. sec. 29 and 30
	100 mountainous land
	Descending on broken N.W. slope
7,45	Intersect Utah Idaho boundary 32,34 chs. N 88°

chains 45 E of 125 mile post.
Set a slate stone 18 x 10 x 6 ins. 12 ins. in the ground for closing cor. of secs. 29 and 30. marked. C C U. on S. with 5 grooves on E faces.: thence
a cedar tree 6 ins. diam. bears. S 5° 60' E. 67 lks. dist. marked T 15 N R 14 W. S. 29 B.T.
a pinion tree 4 ins. diam. bears. S 74° 30' W. 44 lks. dist. marked T. 15 N. R. 14 W. S. 30 B.T.
Land mountainous broken slope
Soil gravelly and rocky 3d rate
Timber scrubby cedar and pinion
Mountainous land. 7.48 chs.

September 24, 1896

Retracement of W. bdy. T. 15 N R 14 W

Sept. 24: From the established cor. of secs. 25 and 36 on E bdy. T. 15 N. R. 15 W as already described I run North on W. bdy. sec. 31.; at 14,94 chs. the closing cor. of secs. 30 and 31; at 21,00 the closing cor. of secs. 25 and 30 on Utah Idaho boundary, being a stone firmly set marked and witnessed as described by the surveyor general
Therefor the course of this line is North and the distance 21,00 chs. –

September 24. 1896

General Description

This township is composed partly of mountainous land and partly of sloping bench land. –
The soil on the mountainous part is gravelly and rocky valuable for range and pasture only. — The bench land is a gravelly wash and loam very fertile when irrigated, but of little value without. –
There is considerable timber on the mountain slopes. but being of scrubby growth –, cedar with some pinion, it is of no commercial value
There are no quarries nor mines within the township nor any indications of mineral of any kind. –

Subdivision of T 15 N R 14 W.

One mile Creek runs through the township from S. to N.; it is a small stream and during the fall and winter nearly dry.
There are six settlers within the township, including O. D. McIntire, Geo. Wm McIntire (known as Wm McIntire and so given in field notes) and R. S. Barnes who made application for survey of this township; all make a living by farming and sheep raising and the land is being cultivated to the available water limit.—

Andrew P Hanson
U.S. Deputy surveyor

Boundaries of T. 15 N. R. 14 W.
Latitudes, Departures and Closing error

Line Designated	True bearing	Distance	Lat. N	Lat. S	Dep. E	Dep. W
		chs	chs	chs	chs	chs
South boundary	East	478.82			478.82	
East "	North	93.24	93.24			
Utah Idaho "	S 89° 27' W.	28.84		0.24		28.84
" " "	S. 89° 33' W.	81.30		0.63		81.30
" " "	S 88° 53' W.	81.59		1.57		81.59
" " "	S. 89° 08' W.	80.26		1.21		80.26
" " "	S 89° 12' W.	80.40		1.12		80.40
" " "	S 88° 45' W.	79.54		1.73		79.54
" " "	S 89° 11' W.	46.10		0.67		46.10
West " "	South	85.66		85.66		
Convergency						0.10
Totals			93.24 92.83	92.83	478.82 478.13	478.13 478.23
Error in Lat.			0.41	in Lat.	0.69	in Dep.

September 24. 1896
Andrew P Hanson
U.S. Dep. Surv.

Hon. Geo. W. Snow
Surveyor General for Utah

Sir:-

In the matter of oaths of assistants employed by me on contract No 204 I respectfully submit: That J L Barnes F P Davies and George Tuckey entered my employ while in the field and far away from any Notary or other officer having a seal; their employment being necessitated by sudden sickness of other assistants, and to save loss of time, and expence I availed myself of authority granted, and administered the preliminary oath.— That upon the completion of the survey finding myself many miles away from a proper officer, necessitating nearly two days travel to reach one; and to save this additional expence and delay I administered the final oaths in person, to the said assistants.—

Andrew P Hansen
U S Dep. Surveyor

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List of Names.

A list of the names of the individuals employed by Andrew P Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of Tp 14-13 and 12 N R 2 E — Tp 13 N R 2 W Tp 15 N R 3 W — Tp 14 N Rs 2 and 3 W — Tp 15 N Rs 4-5-6-12 and 14 W and Tp 14 N R 12 W

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

E H Giers — Chainman

Final Oath of Assistants:

I hereby certify that I assisted Andrew P Hansen, U. S. Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of Tp 14-13 and 12 N R 2 E — Tp 13 N R 2 W — Tp 15 N R 3 W — Tp 14 N Rs 2 and 3 W Tp 15 N Rs 4-5-6-12 and 14 W and Tp 14 N R 12 W. —

Salt Lake Base and Meridian, Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of ~~our~~ my knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Utah

E H Giers, Chainman

Subscribed and sworn to before me this 28th day of September, 1896

SEAL

Henry A Mitchell
Notary Public

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Final Oath of U. S. Deputy Surveyor.

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

.....

.....

.....

.....

.....Meridian, in the....., as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for..... and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....

U. S. Deputy Surveyor.

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

SEAL

.....

.....

Approval.

Office of the U. S. Surveyor General,

....., *18* .

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

.....

.....

.....

.....

.....

.....

.....executed by

.....

under his Contract No....., dated....., 18 , having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

.....

U. S. Surveyor General.

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

.....

U. S. Surveyor General.

List of Names.

A list of the names of the individuals employed by Andrew P Hansen, U. S. Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision lines of Tps 14-13 and 12 N R. 2 E. — Tp 13 N R 2 W. Tp 13 N R 3 W. Tp 14 N RS 2 and 3 W Tp 15 N RS 4-5-6-12 and 14 W. and Tp 14 N R 12 W. — Salt Lake Base and Meridian, in the State of Utah, showing the respective capacities in which they acted:

J. L. Barnes Chainman or Measuring
F. P. Davies Flagman or Axeman

Final Oath of Assistants:

We hereby certify that we assisted Andrew P Hansen, U. S. Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Tps 14-13 and 12 N R 2 E — Tp 13 N R 2 W. Tp 13 N R 3 W - Tp 14 N RS 2 and 3 W Tp 15 N RS 4-5-6-12 and 14 W and Tp 14 N R 12 W Salt Lake Base and Meridian, in the State of Utah, as are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the U. S. Surveyor General for Utah

J. L. Barnes Chainman or Measuring
F. P. Davies Flagman or Axeman

Subscribed and sworn to before me this 25th day of September, 1896

SEAL

Andrew P Hansen
U S Deputy Surveyor

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Final Oath of U. S. Deputy Surveyor.

I, Andrew P. Hanson, U. S. Deputy Surveyor, do solemnly swear that, in pursuance of instructions received from George W. Snow, U. S. Surveyor General for Utah, bearing date of the 30th day of December, 1895, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the U. S. Surveyor General for Utah, the surveying manual, and the laws of the United States, surveyed all those parts or portions of Tp. 9 N. R. 7 E., Tp. 10 N. R. 7 and 8 E., Tp. 11 N. R. 7 and 8 E., Tp. 12 N. R. 8 E., Tp. 13 N. R. 8 E., Tp. 14 N. R. 8 E., Tp. 15 N. R. 8 E., Tp. 13 N. R. 5 ~~7 and 8~~ E., Tp. 15 N. R. 5 E., Tp. 14 N. R. 5 E., Tp. 12 N. R. 5 E., Tp. 14 N. R. 2 E., Tp. 13 N. R. 1 and 2 E., Tp. 12 N. R. 2 E., Tp. 13 N. R. 2 W., Tp. 15 N. R. 3 W., Tp. 14 N. R. 2 and 3 W., Tp. 14-15 N. R. 12 W., and Tp. 15 N. R. 14 W. of Salt Lake Base and N. R. 4-5 and 6 W., Meridian, in the State of Utah, as are represented in the foregoing field notes as having been surveyed by me, and under my directions; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the surveying manual, printed instructions, the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the true field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Andrew P. Hanson
U. S. Deputy Surveyor.

Subscribed and sworn to before me this 20th day of August, 1897

SEAL

George W. Snow
U. S. Surveyor General

Approval.

Office of the U. S. Surveyor General,

Salt Lake City, Utah, Sept. 9, 1897.

The foregoing field notes of the survey of the subdivisions of Township 15 North Range 14 West of the Salt Lake Base and Meridian, Utah

executed by Andrew P. Hanson under his Contract No. 204, dated December 30th, 1895 having been critically examined, the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

George W. Snow
U. S. Surveyor-General.

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

George W. Snow
U. S. Surveyor-General.

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4—679.

K.J.B.
K.J.B.
K.J.B.

BOOK A-243

FIELD NOTES

OF THE RE SURVEY OF THE

South West Boundary of the
Uintah Indian Reservation
From the
Initial Point Near Green River,
Westerly
To The 18th Mile Stone

Of the ..... *Meridian,*

In the State of Utah

AS RE SURVEYED BY

William B Dougall, *United States Deputy Surveyor,*

Under his Contract No. 221, *dated* March 24, 189 8

Survey commenced April 10, 189 8

Survey completed April 13, 189 8

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See also small book titled "N.E. & S.W. Boundary Uintah I.R.-1875" (In files prior to Book No.1.) - Orig. Survey by Du Bois.

Also large book titled "Boundaries of the Uncompahgre Ute Uintah Indian Reservation" for retracement of 1884 by Oakes and Bennet. (Filed with state Boundary Note Books.

BOOK A-243

NAMES AND DUTIES OF ASSISTANTS.

John W Dougall	Chainman
John W Stupen Jr	Chainman
John W Dougall	Rodman
John W Stupen Jr	Rodman
William H Litts	Axman
William H Litts	Flagman

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Volume
#
R0243

BOOK A-243

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, John W. Dougall and John W. Streeper Jr. 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

John W. Dougall, *Chainman.*
John W. Streeper Jr., *Chainman.*

Subscribed and sworn to before me this 4th day of April, 1898

SEAL

Hugh M. Dougall
Notary Public

WE, John W. Dougall and John W. Streeper Jr. 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

John W. Dougall, *Moundman.*
John W. Streeper Jr., *Moundman.*

Subscribed and sworn to before me this 4th day of April, 1898

SEAL

Hugh M. Dougall
Notary Public

WE, William H. Leiter 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

William H. Leiter, *Axman.*
, *Axman.*

Subscribed and sworn to before me this 4th day of April, 1898

SEAL

Hugh M. Dougall
Notary Public

I, William H. Leiter, 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

William H. Leiter, *Flagman.*

Subscribed and sworn to before me this 4th day of April, 1898

SEAL

Hugh M. Dougall
Notary Public
My commission expires Jan. 19th 1901

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6224

The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River, westerly to the 18th. Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S.Bdy. of Sec. 36 Township No. 10 S. Range No. 16 E. East to the Standard cor. of Townships Nos. 10 South Ranges Nos. 16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

6224

The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River westerly to the 18th. Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S.Bdy. of Sec. 36 Township No. 10 S. Range No. 16 E. East to the Standard cor. of Townships Nos. 10 South Ranges Nos. 16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

6224

The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River westerly to the 18th. Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S.Bdy. of Sec. 36 Township No. 10 S. Range No. 16 E. East to the Standard cor. of Townships Nos. 10 South Ranges Nos. 16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

622

The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River, westerly to the 18th. Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S.Bdy. of Sec. 36 Township No. 10 S. Range No. 16 E. East to the Standard cor. of Townships Nos. 10 South Ranges Nos. 16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

Retracement of the South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River, westerly to the 15th mile-Stone.

Survey commenced April 10, 1898, and executed with a W. and L.E. Gurley light mountain transit (No number) with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah, March 30th 1898.

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

At the Initial Point of the South West Bdy. of the Uintah Indian Reservation, near Green River; latitude 40°03' N. longitude 109°47' W., I set off 40°03' N on the lat. arc, 8°15' N on the decl. arc, and at 4h 00m p.m. l.m.t. determine, with the solar, a true meridian and mark a point thereof on a plug driven in the ground 5 chs. N. of my station.

April 10, 1898.

April 11, 1898. At 0h 21m a.m. by my watch, which is 19m 08s fast of l.m.t., I observe Polaris at lower culmination, in accordance with the Manual of Instructions, and mark a point in the true meridian thus determined on the plug already set 5 chs. N of my station, on which the true meridian falls 0.1 in. east of the mark determined by the solar.

At 7h 00m a.m. l.m.t. I set off 40°03' N on the lat. arc, 8°30' N on the decl arc, and mark a point in the true meridian determined with the solar by a pencil mark on the plug already set 5 chs.

Retracement of the South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River, West [illegible] th. 18th Mil. [illegible]

N. of my station; this mark falls 0.2 ins. east of the true meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations defines positions for true meridians, respectively about 0'05" west and 0'11" east of the meridian established by the Polaris observations, therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7h 30m a.m. is N 15°34' W.; the angle thus determined, reduced by the table, page 100, gives the mean mag decl 15°30' E.

1st Mile

From the initial point, which is a gray sand stone 16 x 11 x 4 ins. in mound of stone, marked and witnessed as described by surveyor general, located on top of hill 125 ft. above Green River,

Iron

N. 58°40' W. instead of N. 58°00' W. as given by the surveyor general, this being the difference between the true mag. decl., and that given by the surveyor general.

Across hill.

1.20 Abrupt descent, bearing N and S.

4.00 Bottom of draw, 75 ft below initial point. drains S. ascend.

55.50 Top of ridge 150 ft above draw, bears N.E. and S.W. abrupt descent.

60.00 Thence less abrupt descent.

79.81 At right angles to my line, in a southerly direction, I find the 1st mile stone 1.01 chs dist, which is a gray sand stone 20 x 12 x 5 ins. in mound of stone, marked and witnessed as described by surveyor general, which I re-mark as follows:- U.I.R. on Northerly U.U.I.R. on southerly and 1 M on easterly faces. Therefore the 1st mile is 79.82 chs in length and bears N 59°23' W.

Land mountainous

Soil, sand, gravel, and stone. 4th rate.

Retracement of the South West Boundary of the Uintah Indian Reservation from initial point near Uinta River, westerly to the 18th mile stone — Continued.

No timber
Mountainous land 79.82 chs.

2nd mile

From my point 1.01 chs. northerly from the 1st mile stone I continue my line
N 58°40' W. near the line between the 1st and 2nd mile stones.
On descending land.

2.00	Bottom of ravine 100 ft below ridge, drains S.W. ascend.
21.00	Abrupt ascent.
23.00	Top of shelving precipitous spur 100 ft. above ravine projects S.W.. abrupt descent.
27.00	Bottom of draw, 75 ft. below spur, drains S. abrupt ascent.
33.00	Top of abrupt ascent, 100 ft. above draw, thence gentle ascent.
45.00	Top of knoll, 50 ft. above change of slope, descend.
67.00	Bottom of draw, 70 ft. below knoll, drains N.E. ascend.
80.51	At right angles to my line in a southerly direction I find the 2nd mile stone 91 lks. dist. which is a sand stone 20 x 10 x 4 ins. in mound of stone marked and witnessed as described by surveyor general, which I remark as follows:— U.S.R. on northerly U.U.S.R. on southerly and 2M on easterly faces. Therefore the 2nd mile is 80.51 chs. in length and bears N 58°36' W.

Land mountainous
Soil sandy and very stony, 4th rate
No timber
Mountainous land 80.51 chs.

3rd mile

From my point 91 lks. northerly from the 2nd mile stone, I continue my line
N 58°40' W. near the line bet. the 2nd and 3rd mile stones.
On ascending land

26.00	Top of knoll 125 ft above 2nd mile stone, descend.
40.00	Bottom of gulch 100 ft. below knoll, drains S.W.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near Green River, Westerly to 16th mile Stone - [illegible]

ascend

43.00 Top of abrupt ascent, 150 ft above gulch, thence across flat topped spur projecting S.W.

47.00 Abrupt descent among loose sand rock.

53.00 Bottom of gulch 60 ft. below spur, drains S.W. ascend

60.00 Top of small ridge, bears E and W, 60 ft above gulch

73.00 Bottom of gulch, 60 ft. below ridge, drains W. ascend.

79.83 At right angles to my line in a northerly direction I find the 3rd mile stone 1.87 chs dist, which is a sand stone 6x10x6 ins above ground, marked and witnessed as described by surveyor general, and which I re-mark as follows:- U.I.R. on northerly, U.U.I.R. on southerly and 3M on easterly faces. Therefore the 3rd mile is 79.87 chs in length and bears N 56°41' W.

Land, rough and broken

Soil sandy and stony 4th rate

No timber

Mountainous land 79.87 chs.

4th Mile

From my point 1.87 chs. southerly from the 3rd mile stones I continue my line N 58°40' W. near the line bet. the 3rd and 4th mile stones.

Over descending land

10.00 Bottom of draw 50 ft. below 3rd mile stone drains S.W. ascend.

50.00 Top of ascent, bears N.E. and S.W. 100 ft above draw, descend.

63.00 Bottom of ravine 75 ft below ridge, ascend.

80.00 At right angles to my line, in a northerly direction I find the 4th mile stone 96 lks dist, which is a sand stone 5x9x5 ins above ground marked and witnessed as described by surveyor general, which I re-mark as follows:- U.I.R. on northerly, U.U.I.R. on southerly and 4M on easterly faces. Therefore the 4th mile is 80.00 chs in length and bears N 59°19' W.

Land hilly and broken

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point on Green River Westerly to the 18th Mile Stone - Continued.

Soil sandy and stony 4th rate
No timber
Mountainous land 8.00 chs.

5th Mile

From my point 96 links southerly from the 4th mile stone, I continue my line
N 58°40' W. near the line bet. the 4th and 5th mile stones
Over broken ascent.

10.00	Top of spur 25 ft. above 4th mile stone projects S descend.
14.00	Bottom of draw 80 ft below spur, drains S 15° W. ascend.
37.00	Thence abrupt ascent, bears N. and S.
41.00	Top of abrupt ascent thence gentle ascent.
53.00	Top of spur projects S.W. 150 ft. above draw descend.
59.00	Bottom of gulch, 75 ft. below spur, drains S. ascend.
81.39	At right angles to my line, in a northerly direction I find the 5th mile stone 3.18 chs dist. which is a sand stone 5 x 12 x 7 ins above ground marked and witnessed as described by surveyor general and which I re-mark as follows:- N.D.R. on northerly, N.N.D.R. on southerly and 5 N on easterly faces. Therefore the 5th mile is 81.42 chs. in length and bears N 57°86' W.

Land hilly and broken
Soil, sandy, gravelly, and stony, 4th rate.
No timber
Mountainous land 81.42 chs.

6th Mile

At the point 3.18 chs. southerly from the 5th mile stone, at 12h 00m m. I set off 8°33' N on the dist. arc and observe the sun on the meridian the resulting lat is 40°05' N.
Thence I continue my line
N 58°40' W, near the line bet. the 5th and 6th mile stones
Over ascending land

2.00	Top of spur 90 ft. above 5th mile stone projects S. descend over broken slope.
52.00	Bottom of abrupt descent bears N and S. 100 ft. below spur.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point on the [illegible]

57.00	Gulch, 50 ft. below bed, drains S. abrupt ascent.
59.00	Top of abrupt ascent, 60 ft above gulch, thence gulch ascent.
80.76	At right angles to my line, in a northerly direction I find the 6th mile stone 3.32 chs dist, which is a sand stone 5×10×4 ins above ground, marked and witnessed as described by surveyor general, and which I remark as follows:- N. I.R. on northerly N.N.I.R. on southerly and 6 M. on easterly faces: Therefore the 6th mile is 80.76 chs in length and bears N 58°34' W.
	At this point the mag. needle shows a variation of 15°45' E.
	Land mountainous
	Soil, sandy, gravelly and stony, 4th rate
	No timber
	Mountainous land 80.76 chs.

7th mile

From the 6th mile stone, I run N 72°00' W along 7th mile

Over ascending land.

11.00	Top of spur 50 ft. above 6th mile stone, projects S. descend.
16.00	Foot of abrupt descent, 150 ft below spur, thence gulch descent, bears N and S.
28.00	Bottom of draw, 50 ft, below head in slope, drains S. thence gulch ascent.
46.00	Spur 100 ft. above draw, projects S. descend.
70.00	Bottom of ravine 75 ft. below spur, drains S. ascend.
79.46	At right angles to my line in a southerly direction I find the 7th mile stone 89 lks. dist. which is a sand stone 5×12×8 ins above ground, marked and witnessed as described by surveyor general and which I remark as follows:- N I.R. on northerly N.N.I.R. on southerly and 7 M. on easterly faces. Therefore the 7th mile is 79.46 chs in length and bears N 72°38' W.
	Land hilly and broken
	Soil, sandy, gravelly, and stony, 4th rate
	No timber
	Mountainous land 79.46 chs.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near Green River, Westerly, to the 18th Mile Stone — Continued.

8th Mile

From my point 89 lks. northerly from the 7th mile stone, I continue my line

N 72° W. near the line between the 7th and 8th mile stones

Over ascending land.

30.00 Spur, 100 ft above 7th mile stone, projects S.W. descend

45.00 Swale, 45 ft below spur, drains S.W. ascend.

60.00 Spur, 60 ft above swale, projects S.W. descend.

63.00 Draw, 65 ft below spur, drains S.W. ascend

69.00 Spur, 70 ft above draw, projects S.W. descend.

75.00 Bottom of abrupt descent, 100 ft below spur, thence less abrupt descent.

79.86 At right angles to my line in a southerly direction, I find the 8th mile cor. 2.07 chs dist. which is a sand stone 6x10x6 ins above ground, marked and witnessed as described by surveyor general and which I remark as follows:- U.I.R. on northerly U.U.I.R. on southerly and 8 M on easterly faces. Therefore the 8th mile is 79.87 chs in length and bears N 72°51' W.

At this point the mag. needle shows a variation of 15°55' E.

Land hilly and broken

Soil, sandy, gravelly, and stony, 4th rate

No timber

Mountainous land 79.87 chs.

9th Mile

From my point 2.07 chs. northerly from the 8th mile stone, I continue my line

N 72°00' W. near the line bet the 8th and 9th mile stones.

Over descending land.

12.00 Bottom of swale 40 ft. below 8th mile stone, drains S 80° W. ascend.

15.00 Small spur, 20 ft. above swale, projects S. descend.

20.00 Bottom of gulch 30 ft. below spur, drains S 15° E. ascend.

25.80 Indian trail, bears N 15° W and S 15° E.

40.00 Wash, 10 lks wide, 2 ft. deep drains N.E.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near Green River, Utah. [illegible]

45.00	Abrupt ascent, bearing N.E. and S.W.
48.00	Top of abrupt ascent, same bearing, 100 ft above wash, thence descend.
59.00	Bottom of draw, 50 ft. below change of slope, drains S60°E. ascend.
79.70	At right angles to my line in a southerly direction I find the 9th mile stone 2.33 chs dist. which is a sand stone 6x12x6 ins. above ground, marked and witnessed as described by surveyor general, and which I remark as follows:- U.S.R. on northerly N.U.S.R. on southerly and 9M. on Easterly face. Therefore the 9th mile is 79.70 chs in length and bears N72°11'W.
	Land, broken and mountainous
	Soil, sandy, gravelly and stony 4th rate
	No timber
	Mountainous land 79.70 chs.
	April 11, 1898.

10th Mile.

April 12, 1898. From my point, 2.33 chs northerly from the 9th mile stone, I continue my line N72°00'W. near the line bet. the 9th and 10th mile stones

	Over broken ascending land.
25.00	Top of ridge 150 ft. above 9th mile stone, bears N20°W and S20°E., thence broken descent.
33.00	Bottom of gulch, 75 ft. below ridge, drains N.W. ascend.
47.00	Spur, 50 ft. above gulch, projects N.W. descend.
62.00	Gulch 50 ft. below spur, drains N35°W, ascend.
70.00	Rocky spur, 50 ft. above gulch, projects N. broken descent.
73.00	Draw 30 ft. below spur, drains N15°E. ascend.
80.10	At right angles to my line, in a southerly direction I find the 10th mile stone 2.46 chs. dist. which is a sand stone 12x12x5 ins above ground, marked and witnessed as described by surveyor general, and which I remark as follows:- U.S.R. northerly N.U.S.R. on southerly and 10M on easterly face. Therefore the 10th mile is 80.10 chs in length and bears N72°06'W.
	Land, broken and mountainous
	Soil, sandy, gravelly and stony, 4th rate
	No timber.

Retracement of the South W. Boundary of the Uintah Indian Reservation from the initial point near Green River, Westerly, to the 18th Mile Stone - Continued.

Mountainous land 80.10 chs.

11th Mile.

April 12, 1898. At the 10th mile stone, at 7h 30m a.m. l.m.t., I set off 40°06' N on the lat arc, 8°52' N. on the decl. arc, and determine a true meridian with the solar.

The magnetic bearing of the true meridian is N 15°59' W. the angle, thus determined reduced by the table, page 100, gives the mean mag. decl 15°5' E.

Thence I run

N 80°00 W along the 11th mile.

Over broken ascending land.

18.00 Top of ridge 75 ft. above 10th mile stone, bears N.E. and S.W., thence descend among sandstone boulders.

24.00 Bottom of small basin 80 ft below ridge. ascend

29.00 Knoll, 100 ft. above basin, descend over broken cliffs.

38.00 Bottom of ravine 95 ft. below knoll, drains N.E. thence broken ascent among small sand stone knolls.

79.71 At right angles to my line in a southerly direction I find the 11th mile stone 13 lks dist, which is a sand stone 8 x 12 x 6 ins. above ground marked and witnessed as described by surveyor general, and which I remark as follows:- U.I.R. on northerly, U.U.I.R. on southerly and 11 M on easterly faces, Therefore the 11th mile is 79.71 chs in length and bears N 80°06' W.

Land broken and mountainous

Soil gravilly and stony, 4th rate

No timber

Mountainous land 79.71 chs.

12th Mile

From my point 13 lks. northerly from the 11th mile stone I continue my line

N. 80°00' W. near the line bet. the 11th and 12th mile stones.

Over broken ascent.

15.50 Top of ridge 150 ft. above 11th mile stone bears N.E and S 75° W. descend.

22.00 Bottom of ravine 90 ft. below ridge, drains N.W.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near Green River, Kentucky, to the 18th Mile Stone - Co

	thence gently descend along N. slope.
56.00	Bottom of draw 75 ft. below last draw, drains N60°E. ascend.
60.00	Top of spur, projects N.E. 50 ft above draw, descend.
68.00	Wash 25 ft below spur drains N.E. ascend.
79.96	At right angles to my line, in a southerly direction, I find the 12th mile stone 50 lks. dist. which is a sand stone 8x12x6 ins. above ground marked and witnessed as described by surveyor general, and which I remark as follows:- U.S.R. on northerly, U.N.I.R. on southerly and 12 M on easterly faces, Therefore the 12th mile is 79.96 chs. in length, and bears N.80°16' W.
	The magnetic needle shows a variation at this point of 15°55' E.
	Land broken and mountainous
	Soil, gravelly and stony, 4th rate
	No timber
	Mountainous land 79.96 chs.
	13th Mile
	From my point, 50 lks northerly from the 12th mile stone, I continue my line N.80°00' W. near the line bet. the 12th and 13th mile stone
	Over broken ascending land.
29.00	Top of rocky spur, 100 ft. above 12th mile stone projects S. descend.
31.00	Draw 75 ft below spur, drains S. broken ascent.
66.00	Top of ridge 150 ft. above draw, bears N and S. descend
70.00	Bottom of ravine 70 ft below ridge, drains S.E. ascend.
80.03	At right angles to my line in a southerly direction I find the 13th mile stone 65 lks dist, which is a sand stone 8x12x5 ins above ground, marked and witnessed as described by surveyor general, and which I re-mark as follows:- U.S.R. on northerly U.N.I.R. on southerly and 13 M on easterly faces. Therefore the 13th mile is 80.03 chs in length and bears N 80°06' W.
	Land broken and mountainous
	Soil, gravelly and stony 4th rate.

No timber
Mountainous land 80.03 chs.

14th mile

From my point, 65 lks. northerly from the 13th mile stone I continue my line
N 80° 00' W. near the line bet. the 13th and 14th mile stones
One broken ascent.
20.00 Top of spur, 70 ft above 13th mile stone, projects N.E. descend along N. slope.
40.00 Bottom of ravine 50 ft. below spur, drains N 80° E. ascend.
80.35 At right angles to my line in a southerly direction I find the 14th mile post 1.11 chs. dist. which is a sandstone 12x12x4 ins above ground, marked and witnessed as described by survey ground, and which I re-mark as follows:- N.2.R. on northerly, N.N.2.R. on southerly and 14 M on easterly faces. Therefore the 14th mile is 80.35 chs. in length and bears N 80° 20' W.
Land mountainous
Soil, gravelly and stony 3rd and 4th rate
No timber
Mountainous land 80.35 chs.

15th mile

April 12, 1898. At the 14th mile stone at 12h 00m m. l.m.t. I set off 8° 55' N on the decl. arc, and observe the sun on the meridian, the resulting lat. is 40° 07' N.
At this point the mean mag. decl. is 15° 55' E.
Thence I run
West along the 15th mile
One ascending land, sloping N.E.
42.00 Top of ridge 75 ft above 14th mile stone bears N.E. and S.W. descend.
52.00 Gulch, drains N.E. 50 ft. below ridge ascend.
70.00 Spur 50 ft above gulch, projects N.E. descend.
79.00 Ravine 45 ft. below spur, drains N.E. ascend.
86.48 At right angles to my line, in a southerly

Retracement of the S.W. Boundary of the Uintah Indian Reservation from the initial point near Green River Westerly to the 18th Mile Stone – Continued

direction, I find the 15th mile stone 1.11 chs. dist. which is a sandstone 8x12x4 ins. above ground, marked and witnessed as described by surveyor general, and which I re-mark as follows:- U.I.R. on northerly, U.U.I.R. on southerly and 15 M on easterly faces. Therefore the 15th mile is 80.49 chs. in length and bears S89°12'W.

Land rolling and broken

Soil, sandy and gravelly 3rd rate.

No timber

Mountainous land 80.49 chs.

16th Mile

From my point 1.11 chs north of the 15th mile-stone, I continue my line

West near the line bet. the 15th and 16th mile stones.

Over ascending land.

13.00 Spur, 50 ft above 15th mile stone projects N descend.

17.50 Draw, 30 ft. below spur, drains N. ascend.

38.20 Wagon road from Pariette to the Du Chesne River, bears N.40°E. and S40°W.

80.25 At right angles to my line, I find the 16th mile stone 2.00 chs S. which is a sand stone 7x10x4 ins. above ground, marked and witnessed as described by surveyor general and which I remark as follows:- U.I.R. on northerly, U.U.I.R. on southerly and 16 M on easterly faces. Therefore the 16th mile is 80.26 chs in length and bears S89°22'W.

Land rolling mountain slopes.

Soil, sandy and gravelly, 3rd rate

No timber

Mountainous land 80.26 chs.

17th Mile

From my point 2.00 chs north of the 16th mile stone I continue my line

West, near the line bet. the 16th and 17th mile stones.

Over ascending land sloping N.E.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near Green River, Westerly, to the 18th Mile Stone - Continued

8.00	Spur 30 ft. above 16th mile stone, projects N.E. descend.
12.00	Draw, 20 ft. below spur, drains N.E. ascend.
14.00	Spur, 20 ft. above draw projects N.E. descend.
18.00	Draw 30 ft. below spur, drains N.E. ascend.
41.00	Top of spur, 75 ft above draw, projects N.E. descend.
45.00	Swale, 20 ft. below spur, drains N.W. ascend
48.05	At a point 2.66 chs. S. I find a stone marked for the closing cor. at the intersection of the W. Bdy. of the Uncompahgre Ute Indian Reservation with the S.W. Bdy. of the Uintah Indian Reservation. This stone I subsequently learn was set by an army officer, and is therefore un-official, but I failed to find any evidence of [illegible] other closing cor.
53.00	Thence along N. slope of hill
74.92	At right angles to my line I find the 17th mile stone 1.39 chs. S. which is a sand stone 8x10x4 ins. above ground marked and witnessed as described by survey or general. and which I re-mark as follows. - U.I.R. on northerly, U.U.I.R. on southerly and 17 M. on easterly faces. Therefore the 17th mile is 74.92 chs. in length and bears N. 8°32' W.
	Land. rolling mountain slopes
	Soil sand and gravel, 3rd rate.
	No timber
	Mountainous land 74.92 chs

18th Mile

To ascertain without doubt whether or not the 17th mile stone has ever been moved I continue my line

West, from the point 1.39 chs N of the 17th mile stone, near the line bet. the 17th and 18th mile stones (Subsequently this was proved necessary for the W. Bdy. of the Uncompahgre Ute Indian Reservation, intersects this mile)

Over ascending land.

8.00	Top of spur projects N. descend.
12.00	Draw, 20 ft. below spur, drains N. ascend.
48.00	Spur 60 ft. above draw, projects N. descend.

Retracement of the South West Boundary of the Uintah Indian Reservation from the initial point near G... R... W... by T... 18th N... [illegible]

54.00	Draw, 40 ft. below spur, drains N ascend.
65.00	Spur, 70 ft. above draw, projects N descend.
79.00	Draw, 35 ft below spur drains N.W. ascend.
80.08	Wagon road, bears N.W. and S.E.
80.81	At right angles to my line, I find the 18th mile stone 1.57 chs S. which is a sand stone 8x9x4 ins. above ground marked and witnessed as described by surveyor general, and which I re-mark as follows:- U.I.R on north, P.L. on south and 18 M on east faces. Therefore the 18th mile is 80.81 chs. in length and bears S89°52' W.
	Land, mountain slopes.
	Soil, sand and gravel 3rd rate.
	No timber
	Mountainous land 80.81 chs.

April 12, 1898. At the 18th mile stone at 4h 00m p.m. l.m.t. I set off 40°07' N on the lat arc 8°59' N on the decl arc, and determine a true meridian with the solar, and mark a point thereof on a stake driven firmly in the ground, 5 chs N of the stone.

At 11h 54m p.m. l.m.t. I observe Polaris at lower culmination, in accordance with the special instructions from the Surveyor General, and mark a point in the true meridian thus determined on the stake already set 5 chs N of my station, on which the true meridian falls 0.2 ins east of the mark determined by the solar.

April 12, 1898.

April 13, 1898. At 7h 00m a.m. l.m.t. I set off 40°07' N on the lat arc and 9°13' N on the decl arc, and mark a point in the true meridian determined with the solar, on the stake already set 5 chs N of my station;- this point falls 0.3 ins W. of the true meridian established by

the Polaris observations
The solar apparatus by p.m. and a.m. observations defines positions for true meridians, respectively about 0'11" west and 0'16" west of the true 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 7h 30m a.m. is N 15°39' W., the angle thus determined reduced by the table, page 100, gives the mean mag. decl. 13°55' E.

April 13. 1898.

General Description

The land over which the South West Boundary of the Uintah Indian Reservation runs, from the initial point near Green River, westerly, to the 18th mile stone is all broken and mountainous. The soil is, in general, very sandy and stony and might be classed as 4th rate.

There is no water to be found on the whole line, and the land is of no value except for a short season of winter grazing.

On the 18th mile, some where not far from the 18th mile stone, a vain of gilsonite crosses the line, but there are no surface croppings and the exact location of the vain cannot be determined without prospecting. Aside from this there was no evidence of mineral along the line.

William B. Dougall.
U.S. Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

....., 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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638-639
[illegible]

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, [illegible], United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from [illegible] United States Surveyor General for [illegible], bearing date of the [illegible] day of [illegible], 18[illegible], 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 [illegible], the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of [illegible]

[illegible] of the [illegible] in the [illegible], which are represented in the foregoing field notes and having been surveyed [illegible] and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for [illegible] and in the specific manner described in the field notes, and that the foregoing are the original field notes of said survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 4, 1841.

United States Deputy Surveyor.

Subscribed by said [illegible], and sworn to before me this [illegible] day of [illegible], 18[illegible]

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

[illegible] Utah, May [illegible], 18[illegible]

The foregoing field notes of the surveys [illegible] of the [illegible] Meridian [illegible] from the United States [illegible] to the 18th Mile Horse [illegible] State of Utah,

executed by William B. Forsgall under his contract No. [illegible], dated March [illegible], 18[illegible], having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[illegible]

United States Surveyor General.

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

United States Surveyor General.

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4—679.

K.J.B.
K.J.B.
K.J.B.

BOOK A-243

FIELD NOTES

OF THE RE SURVEY OF THE

West Boundary
Of the
Uncompahgre Ute Indian Reservation,
From the Closing Cor on the S. Bdy. of 36,
Township No 10 South, Range No 16 East.
East to the Standard Cor of
Township No 10 South Ranges Nos 16 and 17 East
Thence North to Intersect the South West Boundary
Of The
Uintah Indian Reservation

Of the ..... *Meridian,*

In the State of Utah

AS W SURVEYED BY

William B Dougall, *United States Deputy Surveyor,*

Under his Contract No. 221, *dated* March 29, *1898*

Survey commenced April 15, *1898*

Survey completed April 18, *1898*

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16.15.86
Cong. 27.00

NAMES AND DUTIES OF ASSISTANTS.

John W. Dougall	Chainman
John W. Stryker Jr.	Chainman
John W. Dougall	Moundman
John W. Stryker Jr.	Moundman
William H. Little	Axeman
William H. Little	Flagman

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#
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BOOK A-243

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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

Survey of the West Boundary of the Uncompahgre Ute Indian Reservation, from the Closing cor. on S. Bdy. of sec 36. T.10 S, R.16 E. east to the standard cor. of Tp. 10 S, Rs. 16 and 17 E. thence north to intersect the South West Boundary of the Uintah Indian Reservation.

Survey commenced April 15, 1898, and executed with a W. and L.E. Gurley light mountain transit, (no number) with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah, March 30, 1898.

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

At the standard cor. of secs 35 and 36 T.10 S, R.16 E. latitude 39°54' N. longitude 110°07' W. I set off 39°54' N. on the lat. arc, and 1084' N on the decl. arc, and at 4h 00m p.m. l.m.t. determine a true meridian with the solar and mark a point there of on a plug driven firmly in the ground 5 chs N. of the cor.

April 15, 1898.

April 16, 1898. At 0h 02m a.m. by my watch, which is 20m 28s fast of l.m.t. I observe Polaris at lower culmination, in accordance with the Manual of Instructions, and mark a point in the true meridian thus determined by a pencil mark on the stake set April 15, 5 chs N of my station, on which the true meridian falls 0.3 ins east of the mark determined by the solar.

At 7h 00m a.m. l.m.t. I set off 39°54' N on the lat arc, 10°18' N on the decl arc and mark a point in the true meridian determined with the solar by a pencil mark on the

Resurvey of the West Boundary of the Uncompahgre Ute Indian Reservation from the cor. on the S. Bdy. of sec 36 T.10 S, R.16 E; east to the standard cor of Tps. 10 S, Rs, 16 and 17 E. north to intersect the South West Boundary of the Uintah Indian Reser

stake already set 5 chs. N of my station, this mark is identical with that established by the Polaris observation

The solar apparatus by p.m. and a.m. observations defines positions for true meridians, respectively about 0'16" west and identical with the true 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 7h 30m a.m. is N 15°57' W. the angle thus determined, reduced by the table, page 100, gives the mean mag. decl 15°53' E

For my own convenience, with the object of enhancing the possibilities of finding the Standard cor of Tp. 10 S Rs. 16 and 17 E. I run S. on a blank line from the closing cor found on the 17th mile of the S.W. Bdy of the Uintah Indian Reservation. After passing the last of the stones set by the army officer, mentioned in the notes of the Retracement of the S.W. Bdy. the Uintah Indian Reservation no mile stone were found, and the notes of the original survey, furnished by the surveyor general, failed absolutely to check at any point with the actual topography found in the field. This led me to believe that this part - at least - of the W Bdy. of the Uncompahgre Ute Indian Reservation had never been run. After a long and careful search, the standard cor of secs. 35 and 36, T.10 S, R.16 E. the closing cor. when the W. Bdy. of the U.U.I.R. intersects the 2nd Standard Parallel South, and the standard 1/4 sec. cor. on the south Bdy. of sec 36, T10 S R16 E. were found, some where about a mile W. and about 2000 chs. N. - estimated distances - of the respective points that would be established from my blank line mentioned above. The finding of these corners at such great distances from their respective positions, with my blank line as a basis for their location, together with information gained from local inquiry, led me to believe positively

Survey of the West Boundary of the Uncompahgre Ute Indian Reservation from the closing cor. on the S. Bdy. of sec. 36 T. 10 S., R. 16 E., east to the standard cor. of Tps. 10 S., Rs. 16 and 17 E. thence north to intersect the South W. Bdy. of the Uintah Indian Reservation — Continued

that the W. Bdy. of the Uncompahgre Ute Indian Reservation, from the Second Standard Parallel South, north, to its intersection with the South West Boundary of the Uintah Indian Reservation has now been run. The 28th and 29th mile cors. the latter a pine tree as described in the original notes, were also found due S. of the clos. cor. on 2nd Std. Parll. S.

From the standard cor. of secs. 35 and 36 T. 10 S., R. 16 E. which is a sandstone 8x10x6 ins. above ground, marked and witnessed as described by surveyor general, a flag on the standard 1/4 sec. cor. on the S. Bdy. of sec. 36 can be distinctly seen, and bears S 89°20' E. Therefore I run

S 89°20' E along S. bdy. of sec. 36.

Across bottom of hollow, through a few scattering cedar trees.

4.00 The closing cor. at the intersection of W. Bdy. of the Uncompahgre Ute Indian Reservation with the 2nd Standard Parallel South, which is a sandstone 6x10x6 ins. above ground, marked and witnessed as described by surveyor general

Thence ascend.

28.00 Spur, 60 ft above sec. cor. projects N. descend

Also have scattering cedar timber bears N. and S.

34.00 Draw, 50 ft below spur, drains N. ascend

40.00 The standard 1/4 sec. cor. which is a sandstone 5x6x6 ins above ground, marked and witnessed as described by surveyor general, about 110 ft above draw.

45.00 Spur 175 ft above draw, projects N. descend.

A small bunch of cedar trees 50 lks diam 2 chs. N.

48.00 Ravine 75 ft. below spur, drains N. ascend

52.00 Spur, 75 ft, above ravine, projects N. descend.

60.00 Ravine, 150 ft. below spur, drains N. ascend.

76.00 Top of ridge 250 ft. above ravine bears N.E. and S.W. descend.

80.00 Make careful search for old cor but none can be found, therefore I

Set a gray sandstone 20x18x6 ins, 15 ins. in ground for the standard cor. of Tp. 10 S., Rs. 16 and 17 E., marked S.C. with six grooves on

Reserving of the West Boundary of the Uncompahgre Ute Indian Reservation from the closing cor. on S Bdy of sec 36, T 10 S, R 16 E, east to the Standard cor of Tp 10 S Rs 16 and 17 E N to intersect the S.W. Bdy of the Uintah Indian Reservation — Cont.

N, 6 groove on E., and 6 groove on W. faces raise mound of stone 3 ft. base 2 ft. high N of cor. Pits impracticable

Land mountainous.

Soil, sandy gravelly and stony 3rd and 4th rates

Some scattering cedar timber.

Mountainous land 80.00 chs.

31st Mile

From the standard cor of Tp. 10 S, Rs 16 and 17 E. I run North on a true line along 31st mile

Over ascending land.

6.00 Top of ridge 60 ft above stand. Tp. cor. bears S W and N E. descend.

18.00 Ravine, 100 ft below ridge, drains N 70° W. ascend.

27.00 Spur, 50 ft. above ravine, projects N.W. descend.

31.50 Draw, 70 ft. below spur, drains W. ascend.

41.00 Spur, 100 ft above draw, projects W. descend

49.00 Draw, 90 ft. below spur, drains W. ascend.

57.00 Spur, 125 ft. above draw, projects N 75° W descend.

65.00 Head of draw on N. slope, continue descent.

80.00 Set a gray lime stone 36 x 24 x 8 ins. 24 ins. in mound of stone 3 ft. base, 2 ft. high, for the 31st mile stone, marked U.N.I.R. on E. P.L. on W and 31 ~~M~~ M.S. faces. Pits impracticable.

Land mountainous

Soil, gravelly and stony 4th rate.

No timber.

Mountainous land 80.00 chs.

The magnetic needle shows no change.

32nd Mile

North on a true line along 32nd Mile

Over descending land.

14.00 Indian Trail, bears N.E. and S.W.

17.00 Bottom of cañon 300 ft below last spur, drains N.E. ascend.

37.00 Top of ridge 300 ft above cañon, bears N.E. and S.W. descend

41.00 Draw, 50 ft. below ridge, drains N 25° E. ascend along E slope

46.00 Spur, 25 ft above draw, projects N.E. descend.

52.00 Draw, 50 ft. below spur, drains N 60° E. ascend

65.00 Spur, 50 ft. above draw, projects N.E. descend.

Running of the West Bdy. of the Uncompahgre Ute Indian Reservation, from the closing cor. on S. Bdy. Apic. 36, T. 10 S., R. 16 E. east, to the Standard cor. of Tps. 10 S. Rs. 16 and 17 E. thence N. to intersect the S. W. Bdy. of the Uintah Indian Reservation — Continued.

71.00	Ravine 40 ft. below spur, drains N. E. ascend.
80.00	Set a gray lime stone 20 x 16 x 6 ins. 15 ins. in ground for the 32nd mile stone, marked U. U. I. R. on E., P. L. on W., and 32 M. on S. face, raise a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable.
	Land mountainous
	Soil very stony 4th rate
	No timber
	Mountainous land 8.00 chs.
	Note — The sky is over cast during the remainder of the day and solar observations are impossible
	The magnetic needle shows no change.
	33rd Mile
	North on a true line, along 33rd mile.
	Over ascending land.
2.00	Top of spur, 20 ft. above 32nd mile stone, projects N. E.
10.50	Ravine, 100 ft. below spur, drains N. E. ascend.
27.00	Spur, 80 ft. above ravine projects N. 20° E. descend.
62.50	Bottom of Canon, 400 ft. below spur, drains N. E. around over broken side hill.
75.50	Spur, 125 ft. above canon, projects N. E. descend.
80.00	Set a gray lime stone 22 x 14 x 6 ins. 16 ins. in ground for the 33rd mile stone, marked U. U. I. R. on E., P. L. on W. and 33 M. on S. face, raise a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable.
	Land mountainous
	Soil, gravelly and stony 4th rate
	No timber.
	Mountainous land 8.00 chs.
	The magnetic needle shows no change.
	34th Mile
	North on a true line, along 34th mile.
	Over ascending land.
8.00	Ravine, 80 ft. below mile post 33, drains E. ascend.
13.00	Spur, 100 ft. above ravine, projects E. descend.
18.00	Ravine, 60 ft. below spur, drains E. ascend

Resuming of the W. Bdy. of the Uncompahgre Ute Indian Reservation, from closing cor. on the S. Bdy. Sec. 36 T. 10 S., R. 16 E., east to the Standard cor. of Tps. 10 S. Rs. 16 and 17 E., thence N. to intersect the S.W. Bdy. of [illegible]

25.00	Top of ridge 90 ft above ravine, bears N. 70° E. and S. 70° W. descend.
31.50	Ravine, 65 ft. below ridge, drains N. 70° E. ascend.
46.00	Spur, 80 ft above ravine projects N. 70° E. descend
70.00	Bottom of gulch 200 ft below spur, drains E. ascend.
78.00	Top of abrupt ascent, thence gently ascent.
80.00	Set a gray sandstone 24 x 14 x 6 ins. 18 ins in ground, for 34th mile stone, marked U.U.I.R. on E., P.L. on W., and 34 M on S. faces, raise mound of stone 3 ft. base 2 ft high W. of cor. Pits impracticable.
	Land mountainous
	Soil, gravelly and stony 4th rate
	No timber
	Mountainous land 80.00 chs.
	The magnetic needle shows no change.

35th Mile

	North on a true line, along 35th mile.
	On ascending land.
2.00	Top of ridge 200 ft above gulch, bears East W. descend.
30.00	Bottom of draw, 125 ft below ridge, drains N. 30° E. ascend.
35.00	Spur, 50 ft above draw, projects N. 25° E. descend.
50.00	Bottom of gulch, junction of two gulches, one from W. and one from S.W. 150 ft below spur, drains E. ascend precipitous slope.
55.00	Top of precipitous ascent, 200 ft above gulch, bears East W. thence descend gently.
70.00	Draw, 90 ft below, ridge drains N.E. ascend.
75.00	Spur, projects N.E. 30 ft above draw, descend.
80.00	Set a gray lime stone 24 x 14 x 6 ins 18 ins in ground for 35th mile stone, marked U.U.I.R. on E., P.L. on W., and 35 M. on S. faces, raise a mound of stone 3 ft base 2 ft high W. of cor. Pits impracticable. Head of small draw, drains E.
	Land mountainous
	Soil, very stony 4th rate
	No timber
	Mountainous land 80.00 chs.

Reserve of the W. Bdy of the Uncompahgre Ute Indian Reservation from the Closing cor on S. Bdy of sec 36 T10 S R16 E. east to the Standard cor of Tps 10 S Rs 16 and 17 E. [illegible] N. to intersect the S.W. [illegible] of [illegible] Indian Reservation [illegible]

36th Mile.

North on a true line, along 36th mile.

Over ascending land.

6.00	Spur, 35 ft above 35th mile stone, projects E. descend.
17.00	Ravine 65 ft below, spur, drains N.E. ascend.
25.00	Rocky spur, 70 ft above ravine, projects E. descend.
30.00	Ravine 60 ft. below spur, drains E ascend.
34.00	Spur, 100 ft above ravine projects E. descend.
37.00	Ravine 80 ft below spur, drains N.E. ascend.
40.00	Spur, 60 ft above ravine, projects E. descend.
60.00	Gulch, 300 ft below spur, drains N 80° E. ascend
79.00	Top of ridge, pass between two rocky knolls, 350 ft above gulch, bears N. 70° E. and S. 70° W.
80.00	Set a gray lime stone 36 x 10 x 8 ins 27 ins in ground for the 36th mile stone, marked U.U.I.R on E. P.L. on W and 36 M. on S. faces, raise a mound of stone 3½ ft base 3 ft. high W. of cor. Pits impracticable. A Knoll 50 ft above cor, bears E 1.50 chs dist. A Knoll 55 ft above cor, bears S 45° W. 2.50 chs dist.

Land mountainous

Soil, very stony, 4th rate

No timber

Mountainous land 80.00 chs.

The magnetic needle shows no change

37th Mile

North on a true line, along 37th mile

Over descending land.

20.00	Gulch, 200 ft below 36th mile stone, drains E, ascend.
29.00	Top of rocky knoll 100 ft above gulch, descend.
33.00	Gulch, 100 ft. below knoll, drains E. ascend.
38.50	Spur, 150 ft. above gulch, projects N. 80° E. descend
52.50	Gulch, 150 ft. below spur, drains N. 80° E. ascend.
59.00	Sandstone knoll on point of ridge 180 ft above gulch, bears E. and W. descend.
80.00	Set a gray lime stone 24 x 14 x 6 ins 18 ins in ground for the 37th mile stone marked U.U.I.R. on E., P.L. on W., and 37 M. on S. faces, raise a mound of stone 4 ft base 6 ft

Resurvey of the W. Bdy. of the Uncompahgre Ute Indian Reservation of the Closing cor on S. Bdy. of sec. 36 T. 10 S. R. 16 E. east, to the Standard cor of Tps 10 S Rs 16 and 17 [illegible]

high W of cor. Pits impracticable.
This cor is located on steep rocky side hill facing W.
Land mountainous
Soil, very stony 4th rate.
No timber
Mountainous land 8000 chs.
The magnetic needle shows no change.
April 16. 1898.

38th Mile

April 17, 1898. At the 37th mile stone, at 7h 00m a.m. I set off 40° 00' N on the lat arc, 10° 39' N on the decl arc and determine a true meridian with the solar.
Thence I run
North on a true line, along 38th mile.
Over abruptly descending land.

3.00	Ravine, 90 ft below 37th mile stone, drains N.E. ascend.
13.00	Spur, 75 ft above ravine, projects N. 80° E. descend.
32.00	Ravine 85 ft below spur, drains N 80° E. ascend.
37.00	Spur, 75 ft. above ravine, projects N 60° E. descend.
42.00	Enter head of ravine on N slope, thence follow same,
62.00	Leave ravine, 150 ft. below spur, drains thence N.E.
69.00	Point of rock 50 ft. above ravine, projects E. descend.
72.50	Head of ravine, 50 ft below rock point, drains E. ascend.
75.00	Spur, 60 ft. above draw, projects E. descend.
80.00	Set a gray lime stone 24x12x6 ins. 18 ins. in ground for the 38th mile stone, marked U.U.I.R. on E., P.L. on W., and 38 M. on S. faces, raise mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable.

Land mountainous
Soil, gravelly and stony 4th rate
No timber
Mountainous land 8000 chs.
The magnetic needle here shows a variation of 15° 54' E.

39th Mile.

North on a true line, along 39th mile
Over descending land.

of the W. Bdy. of the Uncompahgre Ute Indian Reservation from the cor on S Bdy of sec. 36, T.10 S, R.16 E. east to the Standard cor of Tps. 10 S, Rs. 16 and 17 E. [illegible] S.W. Bdy. of the Uintah Indian Reservation — Continued

6.00	Ravine, 50 ft. below 38th mile stone, drains N 60° E. ascend
25.00	Spur, 65 ft above ravine, projects N 80° E. descend.
48.00	Draw, 80 ft below, spur, drains E. ascend.
60.00	Spur, 75 ft above draw, projects N 80° E. descend.
80.00	Set a gray lime stone 20 x 12 x 8 ins 15 ins. in ground for 39th mile stone, marked U.U.I.R. on E., P.L. on W., and 39 M. on S faces, raise a mound of stone 3 ft base 2 ft high W of cor. Pits impracticable.
	Land mountainous
	Soil, gravelly and stony 4th rate
	No timber
	Mountainous land 80.00 chs.
	The magnetic needle shows no change.

40th Mile.

	North on a true line, along 40th mile.
	Over descending land.
1.00	Wash, 1 ch wide 6 ft deep, drains N.E. ascend.
10.00	Spur, 85 ft. above wash, projects N 80° E. descend.
28.00	Draw, 40 ft. below spur, drains E. ascend.
45.00	Spur, 40 ft. above draw, projects E. descend.
64.00	Ravine, 55 ft. below spur, drains E. ascend.
75.00	Spur, 4 ft above ravine, projects E. descend.
80.00	Set a sandstone 20 x 14 x 8 ins 15 ins in ground for the 40th mile stone, marked U.U.I.R. on E., P.L. on W., and 40 M. on S faces, raise a mound of stone 3 ft. base 2 ft. high W of cor. Pits impracticable. This cor stands in a wide swale, 40 ft below last spur.
	Land mountainous
	Soil, sandy gravelly, and stony 4th rate
	No timber
	Mountainous land 80.00 chs.
	The magnetic needle shows no change.

41st Mile

North on a true line along 41st mile

Resurvey of the W. Bdy. of the Uncompahgre Ute Indian Reservation, from the Closing cor on S. Bdy of sec 36 T. 10 S. R. 16 E. east to the Standard cor. of Tps 10 S. Rs. 16 and 17 E., thence N. to intersect the S.W. Bdy. of the Uintah Indian Reservation — Con. [illegible]

	Over ascending land.
6.00	Spur, 30 ft. above 40th mile stone projects E. descend
18.00	Ravine, 75 ft. below spur, drains N. 80° E. ascend.
26.00	Top of sand stone bluff 100 ft above rave, bears E. and W. thence along E. slope.
30.00	Head of draw on E. slope, ascend.
38.00	Spur, 65 ft above head of draw, projects S.E. descend.
40.00	Draw, 75 ft below spur, drains E. ascend.
51.00	Top of ridge, 90 ft above draw, bears N 80° E and S. 80° W. descend.
73.00	Ravine, 150 ft. below ridge, drains E. abrupt ascent.
80.00	Set a gray sandstone 30 x 10 x 10 ins 23 ins in ground for the 41st mile stone, marked U.U.I.R. on E., P.L. on W., and 31 M. on S. faces, raise mound of stone 4 ft base 3 ft high W. of cor. Pits impracticable. This cor stands on top of spur, 100 ft. above ravine, projecting E.
	Land mountainous
	Soil, very stony 4th rate.
	No timber.
	Mountainous land 80.00 chs.
	The magnetic needle shows no change.
	April 17, 1898: at this cor, at 12h 00m m. l.m.t. I set off 10°42' N. on the decl arc and observe the sun on the meridian, the resulting lat. is 40° 3½ N.

42nd Mile

	North on a true line, along 42nd mile.
	Over descending land over broken rocky side hill.
17.00	Ravine, 100 ft below, 41st mile stone drains N 80° E. ascend.
40.00	Ridge, 125 ft. above ravine, bears N 80° E and S. 80° W. descend.
62.50	Ravine, 60 ft below ridge, drains E. ascend.
68.00	Spur, 65 ft above ravine, projects E. descend.
74.75	Wagon road, South road from Pariette to Price, bears N 80° E and S. 80° W. Also bottom of ravine 75 ft below spur. drains N. 80° E. ascend.
80.00	Set a gray sandstone 24 x 10 x 8 ins. 18 ins in ground for the 42nd mile stone, marked U.U.I.R. on E., P.L. on W. and 42 M. on S. faces, raise mound of stone 3 ft base 2 ft high W. of cor. Pits impracticable

Survey of the W. Bdy. of the Uncompahgre Ute Indian Reservation from the closing cor. on S. Bdy of sec. 36, T. 10 S., R. 16 E., east to the Standard cor. of Tps. 10 S. Rs. 16 & 17 E. N. to intersect the S.W. Bdy. of the Uintah Indian Reservation — Continued.

Land mountainous
Soil, very stony 4th rate
No timber
Mountainous land 8.00 chs
The magnetic needle shows no change.

43rd Mile.

North on a true line, along 43rd mile.
Over ascending land.

8.00	Spur, 90 ft. above the 42nd mile stone, projects E. descend.
16.00	Ravine, 120 ft. below spur, drains E. ascend.
23.00	Spur, 100 ft. above ravine, projects E. descend.
27.00	Ravine, 70 ft. below spur, drains E. ascend.
31.00	Spur, 80 ft above ravine, projects E. descend.
39.62	The post on the S.W. cor of the porch of Culmer Bros. Office at Pariette, bears N 58° 00' E.
44.50	Ravine, 100 ft. below spur, drains N.E. ascend.
47.00	Spur, 100 ft. above ravine, projects E. descend.
53.74	The same post of Culmer Bros. Office bears N 66° 08' E.
68.00	Wash, 1.00 ch. wide 12 ft deep, drains N.E. continue descent.
80.00	Set a gray sandstone 12 x 12 x 6 ins (no larger stone available) 8 ins in ground for the 43rd mile stone, marked U.U.I.R. on E., P.L. on W., and 43 M. on S. faces, raise mound of stone 3 ft base 2 ft high W of cor. Pits impracticable.

From this cor. the smoke stack of Culmer Bros. hoist, bears S 81° 46' E
Land mountainous
Soil, gravelly and stony 4th rate.
No timber.
Mountainous land 8.00 chs
The magnetic needle shows a variation of 15° 00' E

44th Mile.

North on a true line, along 44th mile.
Over descending land

8.00	Draw, 65 ft below 43rd mile stone, drains E ascend
10.00	Spur, 25 ft above draw, projects E. descend.
15.50	Draw, 35 ft below spur, drains E. ascend.

Resurvey of the W. Bdy of the Uncompahgre Ute Indian Reservation
Closing cor. on S Bdy of sec 36, T.10 S, R.16 E. east to the Standard cor of Tps. 10 S, Rs. 16 [illegible]
thence N to intersect the S.W.Bdy of [illegible] Indian Reservation — Cont.....

20.00	Spur, 35 ft above draw, projects S.80° E. descend.
29.00	Draw, 30 ft below spur drains S 80° E. ascend.
53.46	The smoke stack of Culmer Bro's. hoist, bears S.53°24' E.
54.00	Top of ridge 200 ft above wash, bears E and W.
60.00	Draw, 40 ft below ridge, drains E. ascend.
65.00	Spur, 30 ft above draw, projects E. descend.
71.50	Draw, 35 ft. below spur, drains E. ascend.
75.60	Spur, 20 ft above draw, projects E. descend.
79.00	Draw, 35 ft below spur, drains E. ascend.
80.00	Set a gray sandstone 14×12×8 ins (no larger stone available) 9 ins. in ground for the 44th mile stone, marked U.U. I.R. on E., P.L. on W., and 44 M. on S. faces, raise a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable.
	Land mountainous
	Soil, sandy and gravelly, 4th rate
	No timber
	Mountainous land 8000 chs.
	The magnetic needle shows no change.

45th Mile.

	North on a true line, along 45th mile.
	Over ascending land.
12.00	Top of low ridge, 25 ft. above 44th mile stone, bears E and W. descend.
28.00	Hollow, 40 ft. below ridge, drains E. ascend.
33.00	Spur, 30 ft above hollow, projects E. descend.
39.00	Draw, 30 ft below spur, drains E. ascend.
48.75	Wagon road, bears N 30° W and S 30° E.
60.00	Low ridge, 40 ft above draw, bears E and W. descend.
72.00	Draw, 35 ft. below ridge, drains E. ascend.
80.00	Set a gray sandstone 18×12×6 ins (no larger stone available) 12 ins. in ground for the 45th mile stone, marked U.U. I.R. on E., P.L. on W., and 45 M. on S. faces, raise mound of stone 3 ft base 2 ft high W of cor. Pits impracticable.
	Land, broken and rolling.
	Soil, sand and gravel, 4th rate.
	No timber
	Mountainous land 8000 chs.

Resumed of the W. Bdy. of the Uncompahgre Ute Indian Reservation, from the closing cor. on S. Bdy. Sec. 36 T. 10 S., R. 16 E. east to the Standard cor. of Tps. 10 S., Rs. 16 and 17 E. thence N. to intersect the S.W. Bdy. of the Uintah Indian Reservation – Concluded

46th mile

North on a true line, along the 46th mile.

Our ascending land.

10.00 Top of low ridge, 30 ft above the 45th mile stone bears E. and W. gentle descent.

15.86 Intersect the S.W. Bdy. of the Uintah Indian Reservation 27.00 chs. N. 89°52' E. of the 18th mile stone heretofore described.

Set a gray sandstone 16x14x6 ins (no larger stone available) 11 ins in ground for the closing cor. of the W. Bdy. of the Uncompahgre Ute Indian Reservation, upon the S.W. Bdy. of the Uintah Indian Reservation, marked U.I.R. on N., U.U.I.R. on E., P.L. on W. and C.C. on S. face, raise mound of stone 3 ft base 2 ft high, S. of cor. Pits impracticable.

Land, rolling,

Soil, sand and gravel, 4th rate

No timber

Mountainous land 15.86 chs.

April 17, 1898. At the closing cor. of the W. Bdy. of the U.U.I.R. upon the S.W. Bdy. of the U.I.R. at 5h 00m p.m. l.m.t. I set off 40°07' N. on the lat. arc, 10°48' N. on the decl. arc and determine a true meridian with the solar, and mark a point thereof on a stake driven firmly in the ground, 5 chs N. of the cor.

At 11h 35m p.m. l.m.t., I observe Polaris at lower culmination, in accordance with the special instructions from the surveyor general, and mark a point in the true meridian thus determined, by a pencil-mark on the stake already set 5 chs N. of my station; this mark falls 0.4 ins east of the mark determined by the solar.

April 17, 1898.

April 18, 1898. At 7h 00m a.m. l.m.t. I set off 40°07' N. on the lat. arc, 11°00' N. on the decl. arc and mark a point in the true meridian, determined with the

solar, by a pencil mark on the stake already at 5 chs. N of my station; this mark falls 0.1 in. west of the true meridian established by the Polaris observation. The solar apparatus by p.m. and a.m. observations define positions for true meridians, respectively about 0'21" west and 0'05" west of the true 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 $7^h 30^m$ a.m. l.m.t. is N 15°59' W. the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 15°55' E.

April 18, 1898.

General Description.

The land through which this line runs is all mountainous, and is fit for nothing except during a short season of winter grazing. The soil is all sandy, gravelly and stony and may be classed as 4th rate.

There is no water to be found anywhere along the line, and dryland crops are out of the question.

Somewhere between the 44th and 45th mile stones a vein of gilsonite crosses the line but there are no surface croppings and the exact location cannot be determined without prospecting. Aside from this there are no indications of mineral.

This vein of gilsonite at some distance north of the Uintah Bdy. has been opened and worked, which is also the case at a considerable distance east of the Uncompahgre Bdy.

William B. Dougall
U.S. Deputy Surveyor.

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The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River westerly to the 18th.Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S.Bdy.of Sec.36 Township No.10 S.Range No.16 E. East to the Standard cor.of Township No.10 South Ranges Nos.16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by William B Dougall, 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:

John W. Dougall, *Chainman.*
John W Stuper Jr., *Chainman.*
John W Dougall, *Moundman.*
John W Stuper Jr., *Moundman.*
William H Leiter, *Axman.*
_____, *Axman.*
William H Leiter, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William B Dougall, United States Deputy Surveyor, in surveying all those parts or portions of the South West Bdy of the Uintah Indian Reservation from the initial point near Green River, westerly to the 18th Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the closing corner on south boundary of Sec 36 Township No 11 South Range No 16 East, East to the Standard cor of Townships Nos. 10 South, Ranges Nos 16 and 17 East, thence north to intersect the South West Bdy of the Uintah Indian Reservation 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.

John W. Dougall, *Chainman.*
John W Stuper Jr., *Chainman.*
John W. Dougall, *Moundman.*
John W. Stuper Jr., *Moundman.*
William H. Leiter, *Axman.*
_____, *Axman.*
William H Leiter, *Flagman.*

Subscribed and sworn to before me this 20th day of April, 1898

Hugh M. Dougall
Notary Public

SEAL

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663A The South West Boundary of the Uintah Indian Reservation from the Initial Point near Green River, westerly to the 18th. Mile Stone; and the West Boundary of the Uncompahgre Ute Indian Reservation from the Closing Corner on S. Bdy. of Sec. 36 Township No. 10 S. Range No. 16 E. East to the Standard cor. of Townships No. 10 South Ranges Nos. 16 and 17 East, thence North to intersect the South West Boundary of the Uintah Indian Reservation.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William B Dougall, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B Blair United States Surveyor General for the State of Utah, bearing date of the 29th day of March, 1898, 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~~

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

William B. Dougall
United States Deputy Surveyor.

Subscribed by said William B Dougall and sworn to before me this 29th day of April, 1898

Jacob B Blair
U S Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah May 11th, 1898

The foregoing field notes of the re survey of the Uncompahgre Ute Indian Reservation from the closing corner on the South boundary of Sec 36 Township No 10 South Range No 16 East east to the Standard Corner of Township No 10 South Ranges 16 & 17 East thence North to intersect the South West Boundary of the Uintah Indian Reservation in the State of Utah

executed by William B Dougall under his contract No 221, dated March 29th, 1898, 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 Bla
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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