Volume

#

R0339

BOOK A-339

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Township 3 S., *Range* 21 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 of .....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

..... *Moundman.*

..... *Moundman*

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

SEAL

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

..... *Axman*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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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 ....., 190

SEAL

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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INDEX DIAGRAM.

Township 4 S., *Range* 23 E.

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18 273	17	16	15	14	13 219
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19 272	20	21	22	23	24 217
~~271~~	~~270~~	~~263~~	~~261~~		
30 269	29 264	28 261	27 260	26	25 216
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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 ....., 190

SEAL

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

.....

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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Township 3 S., *Range* 24 E.

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PRELIMINARY OATHS OF ASSISTANTS.

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

....., *Chainman.*

....., *Chainman.*

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

.....

SEAL

.....

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

....., *Moundman.*

....., *Moundman.*

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

.....

SEAL

.....

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

....., *Axman.*

....., *Axman.*

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

.....

SEAL

.....

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

....., *Flagman.*

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

.....

SEAL

.....

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Township 3 S., *Range* 23 E.

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466	465	455	447	438	429
382 19	465 20	455 21	446 22	437 23	428 24
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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 2 S., *Range* 23 E.

490	6	565	5	553	4	544	3	524	2		1
	565		564		552		543				
489	7	563	8	551	9	543	10	524	11		12
	562		562		551		542				
488	18	561	17	550	16	541	15	523	14		13
	560		559		549		541				
487	19	559	20	548	21	540	22	523	23		24
	558		557		548		539				
486	30	556	29	546	28	538	27	522	26		25
	555		554		546		537				
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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; 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

.....

....., *Chainm*

....., *Chainm*

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

SEAL

WE, ... and .....
do solemnly swear that we will well and truly perform the duties of moundmen in the 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 ....., 190

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 ....., 190

SEAL

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

....., *Flagm*

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

SEAL

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INDEX DIAGRAM.

Township 1 S., *Range* 23 E.

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
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Meanders Page

6—151

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... , *Chainman.*

..... , *Chainman.*

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

SEAL

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

.....

..... , *Moundman.*

..... , *Moundman.*

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

SEAL

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

.....

..... , *Axman.*

..... , *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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Township 3 S., *Range* 22 E.

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			618	611	602
7	8	9 617	10 610	11 601	12
633	632	622	616	609	600
18 631	17 621	16 615	15 608	14 600	13
630	629	620	614	608	599
19 628	20	21 613	22 607	23 598	24
627			612	606	597
30 626	29	28	27 605	26 596	25
625	625			605	595
31 624	32 623	33	34 604	35 594	36

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and .....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain 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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BOOK A-339

FIELD NOTES

OF THE SURVEY OF THE

East and North Boundaries

T. 3 S. R. 21 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Hamilton, United States Deputy Surveyors,

Under ~~his~~ Contract No. 235, dated December 19th, 1899

Survey commenced April 2nd, 1900

Survey completed April 7th, 1900

6—151

E. B. [illegible] 5.40.85 ✓

[illegible] 02-3500 ✓

N. " [illegible] 6.0230 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox	Chainman
John Holmes	"
Josiah Simms	Marksman
Albert Kent	Axeman
Craig Harrington	Flagman

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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, Charley Fox and John Holmes

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level t
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 [illegible] us, in the survey
E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 [illegible]
E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac 1. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S.
R. 22 E. of the Salt Lake Base and Meridian, Utah.

Charley Fox, Chainman

John Holmes, Chainman

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1

~~We~~ I, Joseph Simmons

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishmen
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey o
E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 E.; E. & N. Bdys. T. 4 S. R. 23
E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac 1. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S.
R. 22 E. of the Salt Lake Base and Meridian, Utah.

Joseph Simmons, Moundman

..., Moundman

Subscribed and sworn to before me this 1st day of April, 1901

SEAL

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 190

~~We~~ I, Albert Rose

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of
E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 E.; E. & N. Bdys. T. 4 S. R. 23
E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac 1. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S.
R. 22 E. of the Salt Lake Base and Meridian, Utah.

Albert Rose, Axman.

..., Axman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 19

I, Craig Hurunton, 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
E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 E.; E. & N. Bdys. T. 4 S. R. 23
E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac 1. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S.
R. 22 E. of the Salt Lake Base and Meridian, Utah.

Craig Hurunton, Flagman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1

East Boundary of T. 3 S. - R. 21 E. Salt Lake

Survey commenced April 2nd 1900 and executed with a Young & Sons Solar Transit No. 5712 examined by the U. S. Surveyor Generals Office on the true Meridian at Salt Lake City March 12th 1900 found correct and approved.

I begin at the established cor. to Tps. 3 & 4 S. Rgs 21 & 22 E. of the Salt Lake Meridian which is " a quartzite 18 x 12 x 8 ins. firmly set" marked and witnessed as described by the Surveyor General, said cor. being situated in Latitude 40° 30' 25" N. and Longitude 109° 30' 35" W.

I examine the adjustments of the Transit carefully and then test the solar apparatus by comparing the results of observations on the sun made during a.m. and p.m. hours with a true Meridian determined by observations on Polaris proceeding as follows:

At 4 h. p.m. local mean time I set off 40° 30' N on the latitude arc.; 5° 04' N. on the declination arc. determine with the Solar a true Meridian and mark a point thereof by pencil mark etc. on a stake set firmly in the ground 5 chs N. of cor.

At 8 h. 40 m. P.M. I observe Polaris in accordance with instructions in the Manual and mark the direction thus determined by a tack driven in a wooden plug firmly set in the ground 5 chs N. of the cor.

Astr. l. m. t. of obs. April 2nd		= 8 h. 40 m.
U. C. Polaris April 1st	= 0 h. 41.3 m.	
Red. to April 2nd	= + " 3.9 "	
U. C. Polaris April 2nd	0 h. 37.4 m	= ÷ 0 h 37.4 m
Hour angle and time argument		= 8 h 02.6 m
Azimuth of Polaris at obs.		1° 21 W.

April 2nd 1900

chs. April 3rd 1900 At 7 h. a. m. I lay off the azimuth of Polaris 1° 21' to the East and mark the true Meridian thus determined by making pencil mark No 2 on a stake at April 2nd on which the true Meridian falls 22 lks. East of the mark determined by the Solar. At 7 h. 30 m. I set off 40° 30' on the Lat. arc. 5° 19 N. on the decl arc. and mark a point in the true Meridian determined with the Solar by pencil mark No 3 on the stake already set 5 chs N. of my station; this mark falls 15 links West of the true Meridian established by the Polaris observation.

The Solar apparatus by P. M and A. M. observations, defines positions for true meridians respectively 11' and 8' W. of the true Meridian established by the Polaris observation; therefore I conclude the adjustments of the instrument are satisfactory

The magnetic bearing of the true Meridian at 7:30 A M is N 15° 59' W. which reduced by the table on Page 100 of the Manual gives the mean magnetic declination 15° 55' E.

Beginning at the established cor to Tps. 3 & 4 S. Rgs 21 & 22 E. previously described I run

North bet. secs 31 & 36

2.00 Track 25 lks. wide 10 ft. deep drains S.W. Record

15.00 East point of Ridge open 50 ft. high

30.00 Ridge 200 ft high bears NE. & S.W.

40.00 Set a sandstone 16 x 12 x 8 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and mound of stone 2 ft. base 1½ ft high W. of cor pits unprocurable

45.00 Track 10 lks. wide 6 ft. deep drains S.W.

50.00 Enter branch bears NE. & S.W.

59.00 Leave branch — Record.

ast Boundary of T. 3 S. R. 21 E.

chs.

80.00 Set a limestone 15 x 12 x 9 ins. 10 ins in the ground for cor. to secs. 25. 30. 31 & 36 marked 1 notch on S. and 5 on W. edges and raised a mound of stone 2 ft. base 1½ ft high W. of cor Pits impracticable
Land broken mountains.
Soil 3rd rate rocky
No timber – sagebrush and greasewood
Mountainous on 80.00 chs

North bet. secs 25 & 30

6.00 Broken hollow 50 ft. deep drains S.W.
40.00 Set a sandstone 12 x 8 x 6 ins 8 ins. in the ground for ¼ sec. cor. marked ¼ on W. side and raised a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable.
42.00 Ridge 50 ft. high bears N.E. & S.W.
52.00 Wash 10 lks. wide 3 ft. deep drains S.W.
59.50 Ridge 100 ft. high bears N.E. & S.W.
65.00 Ridge spur 50 ft. high bears S.W.
77.50 Summit of precipitous bluff 100 ft. high on line
80.00 Set a limestone 10 x 8 x 7 ins. 7 ins. in the ground for cor. to secs 19. 24. 25 & 30 marked 4 notches on N. and 2 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable –
Land broken clay mountains
Soil 3rd rate, mostly clay
No timber, small sage & greasewood
Mountainous on 80.00 chs

April 3rd 1900 – At this cor. I set off 5° 23' W. on the decl. arc and at 12 h. 30 m. sol. time the Sun on the Meridian the resulting lat. is 40° 32.5' N.

East Boundary of T. 3 S. R. 21 E.

Chs	
	North bet. secs 19 & 24
5.00	Wash 25 lks wide 6 ft deep in hollow 50 ft deep drains S.W.
12.00	Ridge 75 ft. high bears N.E. & S.W.
25.00	Hollow 50 ft. deep drains S.W.
40.00	Set a sandstone 12 x 8 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. side and raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable
40.50	Wash 10 lks wide 5 ft. deep drains S.E. descend
64.00	Enter bench bears N.E. & S.W.
80.00	Set a limestone 18 x 10 x 6 ins. 12 ins in the ground for cor to secs 13. 18. 19 & 24 marked 3 notches on N. and S. edges and raised a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable Land broken mountains and bench Soil 3rd rate, rocky No timber, greasewood and a few scattering cedars Mountainous on 80.00 chs.
	North bet. secs. 13 & 18
5.00	Leave bench – descend
12.00	Enter "Green Draw" a broad hollow draining S.W.
14.00	Road bears N.E. & S.W.
22.00	Leave Green Draw – ascend
30.00	Enter scattering cedars
35.00	Leave cedars – North of coal pit bears N. 56° E. 9 chs. dist. – and a Miners cabin bears N. 83° 15' E. 9.50 chs. dist. –
40.00	Set a sandstone 12 x 10 x 6 ins. 8 ins. in the ground for 1/4 sec. cor marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable

East Boundary of T. 3 S. R. 21 E.

chs.	
59.00	Ridge 200 ft. high bears NE. & SW.
70.00	Enter "Steinacker Draw" a broad hollow draining SW.
80.00	Set a sandstone 12 x 10 x 5 ins. 8 ins. in the ground for cor. to secs 7. 12. 13 & 18 marked 2 notches on N. and 4 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable —
60/30	Land broken mountains
	Soil 2nd and 3rd rate, sandy & rocky
	No timber — dwarf sage and a few cedars
	Mountainous land on 60.00 chs

April 4th 1900 — At 7 h. a. m. l. m. t. I set off 40° 34' N. on the lat. arc and 5° 42' N. on the decl. arc. and determine a true meridian with the solar at the cor. to secs 7. 12. 13 & 18

Thence I run

North bet. secs. 7 & 12

In Steinacker Draw

13.00	Road bears NE. & SW.
15.00	Leave Steinacker Draw ascend — Enter scattering cedars
32.00	Ridge 250 ft. high bears NE. & SW.
37.00	Leave scattering cedars enter broad broken hollow draining SW.
40.00	Set a limestone 24 x 12 x 4 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable
54.00	Leave hollow — & enter scattering cedars, Ascend broken S. slope.
80.00	Set a sandstone 15 x 12 x 8 ins. 10 ins. in the ground for cor. to secs 1. 6. 7 & 12
15/15	1 notch on N. and 5 on S. edges

chs. and raised a mound of stone 2 ft base 1½ ft high W. of cor. — Pits impracticable
A cedar 5 ins. diam bears S. 25° 15' W. 46 lks dist marked T. 3 S. R. 21 E. S. 12 B.T.
No other trees within limits
Land rocky ridges and broad hollows
Soil 3rd and 2nd rate, rocky.
Some scattering cedars and piñon pine
Sage grass and cactus

Mountainous on N. 65.00 chs.

North bet. secs. 1 & 6

Ascend precipitous S. slope
24.50 Ridge 100 ft. high bears N.W. & S.E.
27.00 Ravine 30 ft. deep drains E.
40.00 Falls on rock in place. Mark a cross (x) at the exact cor. point and 1/4 on W. side of same for 1/4 sec. cor. and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
A piñon pine 18 ins. diam. bears S. 86° E 107 lks. dist. marked 1/4 S.6 B.T.
No other trees within limit
45.00 Ridge 100 ft. high bears E. & W. Descend
75.00 Wash 4 ft deep 15 lks wide in broad hollow drains N.50 E.
80.00 Set temporary cor. to Tps 2 & 3 S. Rgs 21 & 22 E. — after running the N. Boundary of this Tp. at
75.85 Set permanent cor to Tps. 2 & 3 S. Rgs. 21 & 22 East for description of which see field notes of N. Bdy T. 3 S. R. 21 E.
Land broken mountains.
Soil 3rd rate — rocky.
Some scattering cedar & piñon
Mountainous on 75.85 chains

April 4th 1900

East Boundary T. 3 S. R. 21 E.

For general description see end of field notes of the Subdivision lines of this Tp

Edgar F. Harrington
U. S. Dep. Surveyor

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PAGE

North Bdy. T. 3 S. R. 21 E. S. L. Mer.

Survey commenced April 4th 1900

From the temp. cor. to Tps. 2 & 3 S. - Rgs 21 & 22 E. just established I run West on a random line setting temp. sec. & 1/4 sec. corners at every 40 & 80 chs. - At 6 miles 2 chs. 30 lks. the established cor. to Tps. 2 & 3 S. Rgs. 20 & 21 E. which is a sandstone 15 x 9 x 6 ins. set, marked and witnessed as described by the Surveyor General. bears South 4 chs 15 lks. dist.

Conforming to the special instructions accompanying this contract I now abandon my random line and mark the above described Tp. cor C.C. on S. face (obliterating the 6 notches on N. edge) for closing cor to Tps 3 S. Rgs 20 & 21 E. also marking said cor. U. E. A. on N. face the S. Bdy of Uintah Forest Reserve on which the Tp closes.

April 6th 1900 From the re-established closing cor. to Tp 3 S. R. 20 & 21 E. on the S. Bdy of the Uintah Forest Reserve at 7h 30m A. M. L. M. T. I set off 40° 36' N. on the lat. arc and 6° 28' N. on the decl. arc thus determining a true Meridian with the Solar from which I lay off an angle of 90° from North to East and run

East on a true line
along the N. Bdy of sec. 6
and the S. Bdy. of the Uintah Forest Reserve

Descend in cedars

2.00	Hollow 50 ft. deep drains S.
22.00	Ridge spur 75 ft. high bears S. 20° E.
30.00	Gulch 100 ft. deep drains S. 20° E.
35.00	Leave cedars
39.00	Ridge spur 75 ft. high bears S. 10° E.
42.30	Set a limestone 24 x 18 x 6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised

North Bdy of T. 3 S. - R. 21 E.

Chs.	
	a stone mound 2 ft. base 1½ ft. high N. of cor. Pits impracticable
46.50	Hollow 40 ft. deep drains S. 20° W.
49.00	Ridge Spur. 50 ft. high bears S.
53.50	Ravine 25 ft. deep drains S.E.
55.00	Ridge Spur 150 ft. high bears S. 20° W.
65.50	Gulch 200 ft. deep S. 10° W.
75.00	Ridge Spur 200 ft. high bears S.W.
	In bottom of gulch 150 ft. deep drains S.
82.30	Set a limestone 24 x 18 x 6 ins. 18 ins. in the ground for closing cor. to secs 5 x 6 on N. Bdy of Tp marked 5 grooves on E. and 1 on W. faces, C.C. on S. and U.F.R. (for Uintah Forest Reserve) on N. faces and raised a mound of stone 2 ft. base 1½ ft. high S. of cor. — Pits impracticable
	A cottonwood tree 6 ins. diam. bears S. 31° 30' E. 32 lks. dist. marked S. 5 T. 3 S. R. 21 E. B.T.
	A dead cedar 7 ins. diam. bears S. 53° 30' W. 17 lks. dist. marked T. 3 S. R. 21 E. S. 6 B.T.
	Land broken Mountain slope
	Soil 3rd rate — rocky
	Cedars on W. 30.00 chs.
	Mountainous on 82.30 chs.

East on a true line
along N. Bdy of sec. 5
and S. Bdy of the Uintah Forest Reserve

7.00	Ridge Spur 150 ft. high bears S. — Enter scattering cedars
14.00	Gulch 150 ft. deep drains S. 10° E.
24.50	Ridge Spur 150 ft. high bears S.
34.50	Gulch 100 ft. deep drains S. 20° W.
40.00	Set a limestone 14 x 12 x 4 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
	A cedar 15 ins. in diam. bears S. 42° 30' E. 25 lks. dist. marked 1/4 S. 5 B.T.

North Bdy. of T. 3 S. – R. 21 E.

chs.

42.00 Ridge open 100 ft. high bears S.W.

51.00 Hollow 75 ft. deep drains S.W. heads easterly

64.50 Leave same hollow heads N.E.

72.00 Ridge open 75 ft. high bears S.W.

80.00 Set a limestone 20 x 18 x 3 inc. 15 inc. in the ground for closing cor to secs 4 x 5 on the S. Bdy of the Uintah Forest Reserve marked 2 grooves on W. 4 grooves on E., C. C on S and U. F. R. on N. faces from which

A cedar 8 inc. diam. bears S. 43 W. 22 lks. dist. marked T. 3 S. R. 21 E. S. 5 – B. T.

A cedar 6 inc. diam bears S. 58 E. 44 lks. dist. marked T. 3 S. R. 21 E. S. 4 B. T.

Land high broken mountains

Soil 3rd rate, rocky.

Some scattering cedars

Mountainous on 80.00 chs.

April 6th 1900 At this cor I set off 6° 33' N. on the decl. arc. and at 12 h. m. L. M. T. observe the sun on the Meridian the resulting lat. is 40° 36 N.

East on a true line

along N. Bdy. of sec. 4 and S. Bdy of the Uintah Forest Reserve

3.00 Gully 20 ft. deep drains S.W.

10.00 Gully 20 ft. deep drains S.W.

18.50 Road bears N. & S along Summit of Ridge 50 ft. high bears N.E. & S.W.

40.00 Set a limestone 14 x 12 x 5 inc. 10 inc. in the ground for 1/4 sec. cor. marked 1/4 on N. face and erected a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable

A cedar 12 inc. diam. bears S. 24° W. 49 lks. dist marked 1/4 S. 4 B. T. —

North Bdy. of T. 3 S. R. 21 E.

chs.	
46.50	Canyon 75 ft. deep drains S. 80° W.
48.50	leave cedars
50.00	Ascend precipitous W. slope of Red Mountain Ridge
80.00	Set a sandstone 15 x 12 x 4 ins. 10 ins. in the ground for closing cor to secs 3 & 4 against the S. Bdy. of Uintah Forest Reserve marked 3 grooves on E. & W. C. C. on S. and U. F. R. on N. faces and raised a mound of stone 2½ ft base 1½ ft high S. of cor Pits impracticable Land broken mountainous. Soil 3rd rate, very rocky. Cedars on W. 48.50 chs. Mountainous on 80.00 chs.

East on a true line
along N. Bdy of sec 3
and S. Bdy of the Uintah Forest Reserve

12.40	Enter Red Mountain Plateau and pine timber
15.50	leave Red Mountain Plateau along precipitous N. slope of same
30.00	Re-enter Red Mountain Plateau
40.00	Set a sandstone 24 x 12 x 12 ins. 18 ins. in the ground for 1/4 sec. cor marked 1/4 on N. face and raised a stonemound 2 ft base 1½ ft. high N. of cor. Pits impracticable A pine 20 ins. diam bears S. 12° W. 30 lks. dist marked 1/4 S. 3 B. T.
64.00	Leave Red Mountain Plateau and pine timber descend precipitous E. slope
80.00	On East point of ridge spur, set a sandstone 24 x 10 x 6 ins. 18 ins. in the ground for closing cor. to secs 2 x 3 against the S. Bdy of the Uintah Forest Reserve marked 4 grooves on W. 2 on E. C. C. on S. and U. F. R. on N. faces and raised a mound

North Bdy. of T. 3 S. R. 21 E.

chs

of stone 2½ft. base 2 ft. high S. of cor.
Pits impracticable
Land high broken Mountains
Soil 4th rate very rocky
Pine timber on 51.60 chs
Mountainous on 80.00 chs

April 7th 1900 - At 7 h. a.m. l.m.t
I set off 40° 35' N. on the Lat. arc and
6° 51' N. on the decl. arc and determine a
true Meridian with the Solar at the closing cor
to secs 2 & 3
Thence I run
East on a true line
along N. Bdy of sec. 2
and S. Bdy of the Uintah Forest Reserve.

3.00 Cliff 30 ft deep bears NW. & SE.
23.00 Sulphur Spring Canyon 300 ft. deep
drains SE.
25.00 Sulphur Spring in bottom of Canyon bears
S. 10 chs dist - Ascend precipitous SW.
slope
40.00 True 1/4 sec. cor point falls on slope too precipitous
for permanency of cor.
43.00 Set a cedar post 3 ft. long 5 ins. square 24 ins.
in the ground for witness 1/4 sec. cor marked W.C.
1/4 on N. side and raised a mound of Gypsum
stone 2 ft. long 1½ ft. high N. of cor - Pits impracticable on account
of the steepness of the ground. -
This witness cor. is established on the narrow summit
of a ridge 200 ft. high bears NW. and SE.
Now descend along the steep S. side of a
hollow 100 ft deep which drains S. 80 E.
80.00 Set a sandstone 20 x 14 x 3 ins. 15 ins. in the
ground for closing cor. to secs. 1 & 2 marked
5 grooves on W. and 1 on E.; C.C. on S. and
U.F.R on N. faces from which

North Bdy. of T. 3 S. R. 21 E.

chs

A cedar 8 ins. diam. bears S. 24° E. 14 lks. dist. marked T. 3 S. - R. 21 E. S. 1. B.T.
A cedar 8 ins. diam. bears S. 51° 30' W. 67 lks. dist. marked T. 3 S. - R. 21 E. S. 2. B.T.
Land high broken mountains.
Soil 4th rate - very rocky
Scattering cedars on 80.00 chs.
Mountainous on 80.00 chs.

East on a true line
along N. side of sec. 1
and S. Bdy of the Uintah Forest Reserve

15.00 Gulch 50 ft deep drains S.E.
18.50 Same gulch 50 ft. deep drains N.E.
38.00 Same gulch 50 feet deep drains S.E.
40.00 Set a sandstone 20 x 15 x 3 ins. 15 ins. in the ground for 1/4 sec. cor marked 1/4 on N. face and raised a stone mound 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable.
A cedar 5 ins. diam. bears S. 21° W. 21 lks. dist. marked 1/4 S. 1 B.T.
55.00 Wash 8 ft. deep 50 lks. wide drains S. 80° E. Line scattering cedars.
80.00 Intersect East Bdy of Tp. 4 chs. and 15 lks. S. of my temporary cor. to Tps 3 S. Rgs 22 x 23 E. - At intersection point set a sandstone 18 x 14 x 6 ins 12 ins. in the ground for closing cor. to Tps. 3 S. Ranges 21 x 22 E. marked 6 grooves on E. S. & W faces also C. C. on S and U. F. R. (for Uintah Forest Reservation) on N. faces and raised a mound of stones 3 ft. base 2 ft. high S. of cor. - Pits impracticable
Land mostly a broken hollow
Soil 3rd rate, rocky -
Scattering cedars on W. 55.00 ch.
Mountainous on 80.00 chs.

April 7th 1900

Designed temporary corner

North Bdy. of T. 3 S. R. 21 E.

For general description see end of field notes of the Subdivision lines of this Tp.

Edgar F. Harrington
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 ..... E ....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ..... showing the respective capacities in which they acted:

For final affidavits see book W. Tp. 3 S. R. 22 E.

....., *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 .....

For final affidavits see book W. Tp. 3 S. R. 22 E.

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

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

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

For final affidavit see book W. Tp 3 S R 22 E

.....
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 October 25 1902, 189

The foregoing field notes of the survey of the East & North Boundaries of Township 3 South Range 21 East of the Salt Lake Base & Meridian, Utah

executed by Adolphe Jessen and Edgar F. Harrington under his contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-339

X.F.B.

FIELD NOTES

OF THE ~~SURVEY~~ Retracement OF ~~THE~~ part of the

South Boundary T. 3 S. R. 21 E.

and the

East Boundary T. 3 S. R. 20 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen & Edgar F. Harmston, United States Deputy Surveyors

Under ~~his~~ Contract No. 235, dated December 19th, 1899

Survey commenced April 7th, 1900

Survey completed April 26th, 1900

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Retracement S Bdy	Cover	3.40.00 ✓
Resurvey " "	Trees	64.30 ✓
" "	Cover	15.70 ✓
" E Bdy	Trees	2-70-32 ✓
" "	Cover	10.00 ✓
Retracement E Bdy	"	1-00-06 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox	Chainman
John Holmes	"
Josiah Simms	Monumentman
Albert Rose	Axman
Craig Harmston	Flagman

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BOOK A-339

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PRELIMINARY OATHS OF ASSISTANTS.

We, Charley Fox and John Holmes

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 surveys or Retracements of frac'l. S.Bdy.T.3 S.R.21 E.; E.Bdy.T.3 S. 20 E.; E.Bdy.T.4 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and S.Bdy.T.1 S.R. also the S.Bdys.T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah.

Charley Fox, Chainman

John Holmes, Chainman

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. F. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1902

We, Josiah Lawrence

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the surveys or Retracements of frac'l. S.Bdy.T.3 S.R.21 E.; E.Bdy.T.3 S. 20 E.; E.Bdy.T.4 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and S.Bdy.T.1 S.R. also the S.Bdys. of T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah.

Josiah Lawrence, Moundman.

Moundman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. F. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1902

We, Albert Rose

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 surveys or Retracements of frac'l. S.Bdy.T.3 S.R.21 E.; E.Bdy.T.3 S. 20 E.; E.Bdy.T.4 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and of S.Bdy.T.1 S.R. E.; also the S.Bdys. of T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah.

Albert Rose, Axman.

Axman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. F. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1902

I, Craig Harrington, 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 surveys or Retracements of frac'l. S.Bdy.T.3 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and S.Bdy.T.1 S.R. 20 E.; E.Bdy.T.4 S.R.21 E.; also the S.Bdys.T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah.

Craig Harrington, Flagman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. F. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1902

Retracement South Bdy. T. 3 S. R. 21 E. Salt Lake Meridian

Survey commenced April 7th 1900

Preliminary to commencing the subdivision of this Tp. I begin at the established cor. to Tps. 3 & 4 S. - Rgs 21 and 22 East (previously described) and after testing my instrument on the true Meridian established there by me from observation on Polaris April 3rd I retrace the S. Bdy of sec. 36 by running S. 89° 58' W. on a blank line. At 40.00 chs I find the 1/4 sec. cor South 40 lks. dist. and at 80.00 chs the cor. to secs. 1. 2. 35 & 36 South 79 lks. dist.

Therefore I continue my blank line 3 miles and 40 chs. further to a point 3 chs. and 57 lks. North of the 1/4 sec. cor between secs 5 & 32 which is also an angle cor on the Bdy. of the Fort Thornburg Military Reservation upon which this survey closes. This 1/4 sec. cor. has recently been re-established under Surveying contract No 236 for the survey of the Fort Thornburg Military Reservation and is shown by my survey to be in its right place

3 chains and 57 lks. is the accumulated falling of the old line S. of mine for 4 miles and 40 chs. increasing regularly 79 lks for each mile and I find the old corners standing at practically regular intervals of 40.00 and 80.00 chs. except the 1/4 sec. cor between secs. 3 & 34 which is missing

The error being in excess of the limit allowed in closing upon Tp. Boundaries - to test my own work I return from the point reached 3 chs and 57 lks N. of the 1/4 sec. cor. between secs. 5 & 32. and run N. 89° 58 E. on a return blank line. At 4 miles and 40 chs. I intersect the cor. to Tps 3 & 4 S. Rgs. 21 & 22 East my original starting point, which shows the course of the S. Bdy of this Tp. to be S. 89° 24 W. and I proceed to

chs.	
	resuming the line on that course
	April 9th 1900, at 4 h. P.M. local mean time I set off 40° 30' N. on the lat. arc and 7° 42' N. on the decl. arc. and determined with the Solar a true Meridian at the cor. to Tps 3 x 4 S. – Rgs. 21 x 22 E. from which I lay off an angle of 90° 36' from N. to W. and run
	S. 89° 24' W. on a retracement line between secs 1 x 36
4.70	Hollow 50 ft. deep drains S.
13.00	Ridge 60 ft. high bears N.E. x S.W.
22.50	Wash 4 ft. deep 10 lks. wide drains S.
26.00	Ridge spur 20 ft. high bears S.
28.00	Enter Green Draw a broad hollow draining S.
30.00	Wash 6 ft. deep 20 lks. wide drains S.
40.00	Original 1/4 sec cor bet. secs. 1 x 36 a quartzite 12 x 10 x 8 ins. set marked and witnessed as described by the Surveyor General
50.00	Leave Green Draw. ascend E. slope
57.00	Ridge 75 ft. high bears N. x S.
67.50	Gulch 50 ft. deep drains S.
73.50	Ridge 75 ft. high bears N. x S.
76.75	Hollow 20 ft. deep drains S.
80.00	The original cor to secs 1. 2. 35 x 36 a quartzite 15 x 12 x 8 set, marked and witnessed as described by the Surveyor General
	Land broken ridges and flat.
	Soil 2nd and 3rd rate sandy or rocky.
	No timber, scrub sage and some grass
	Mountainous on 58.00 chs.
	April 10th 1900 At 7 h. a.m. l.m.t. I set off 40° 30' N. on the lat. arc. and 7° 57' N. on the decl. arc. and determined a true Meridian

Retracement South Bdy T. 3 S. R. 21 E.

chs	
	with the Solar at the cor. to secs 1. 2. 35 & 36
	Thence I runs
	S. 89° 24' W. on a retracement line
	bet. secs 2 & 35
4.50	Ridge spur 50 ft. high bears S. W.
8.00	Enter Steinacker Draw a broad hollow or narrow Valley draining S.
10.00	Road bears N. & S.
18.00	Road bears N & SW
21.50	Detached ridge 20 ft. high bears N. & S.
25.00	Rock point canal 10 lks. wide 3 ft. deep runs S.E.
25.50	Enter cultivated field bears N. 75 lks. S. 20 chs
34.50	Leave field
35.00	Rock point canal 10 lks. wide 3 ft. deep runs NE.
36.00	Rocky ridge spur. 10 ft. high bears S.W. 150 lks.
36.50	Rock point canal 10 lks wide 3 ft deep runs SE.
40.00	Original 1/4 sec. cor. bet. secs. 2 & 35 a sandstone 24 x 12 x 6 ins. set marked and witnessed as described by the Surveyor General.
41.50	Wash 8 ft. deep 25 lks. wide drains S.
45.00	Jos. Steinackers house bears N. 70 lks.
55.50	Road bears NW. & SE.
64.00	Leave Steinacker Draw
65.00	Ridge spur. 30 ft high bears NE.
72.50	Ridge spur 75 ft. high bears NE.
77.50	Hollow 40 ft. deep drains N.
80.00	The original cor. to secs. 2. 3. 34 & 35 — a sandstone 24 x 10 x 10 ins. set, marked and witnessed as described by the Surveyor General
	Land rolling flat and broken ridges
	Soil 2nd and 3rd rate, sandy loam or rocky
	No timber sage and rabbit brush
	Mountainous on 14.00 chs

chs.

S. 89° 24' W. on retracement line between secs. 3 & 34

7.00 Hollow 20 ft. deep drains N.

24.50 Enter flat – Spring Branch 3 lbs. wide 6 ins. deep runs N. 80° E.

25.50 Enter cultivated field

40.00 Find no trace of old cor. Set a sandstone 18 x 12 x 3 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
Frank Steinackers house bears N. 7° 30' E. 8 chs. distant and John Steinackers house bears N. 30° W. 6 chs. dist.

40.20 Leave field and flat, ascend, enter scattering cedars

80.00 The original corner stone to secs. 3. 4. 33 & 34 a sandstone 14 x 8 x 8 ins. set and marked as described by the Surveyor General on line. The pits and mound are destroyed and I witness said cor with a stone mound 2 ft. base 1½ ft. high raised W. of cor. Pits impracticable
Land a flat, and broken ridges
Soil 1st and 3rd rate, sandy loam or rocky.
Some scattering cedars and sage brush
Mountainous on 64.30 chs

April 10th 1900 At this cor I set off 8' N. on the decl. arc. and at 12 h. m. l. m. t. observe the sun on the Meridian the resulting latitude is 40° 30' N.

S. 89° 24' W. on a retracement line bet. secs 4 & 33.

4.00 In hollow 20 ft deep drains S. W. – The

chs

original 1/4 sec. cor. which is a sandstone 14 x 12 x 4 ins. set, marked and witnessed as described by the Surveyor General. The pits however are about obliterated and I witness the cor. with a mound of stone 2 ft. base 1½ ft. high raised W. of cor Pits impracticable

63.00 Road bears N. & S.

80.00 The original cor. to secs. 4. 5. 32 & 33 a charred cedar post set and marked as described by the Surveyor General in place the pits and mound are destroyed and I dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft ft high W. of cor

Land broken mountains

Soil 3rd rate, rocky.

Sage brush and a few scattering cedars

Mountainous on 80.00 chs

S. 89° 24' W. on a retracement line bet. secs. 5 & 32

40.00 Intersect East Bdy of Fort Thornburg Military Reservation at the 1/4 sec. cor bet secs 5 and 32 which is also an angle cor on the E. Bdy of said Reservation; said cor. is a sandstone 20 x 10 x 8 set 15 ins. in the ground marked 1/4 on N. - ∠ O.M.R. on W. and P.L on E. face with a stonemound 3 ft. base 2 ft. high W of cor. In addition I mark C.C. on E. face for closing cor. to secs 5 & 32 and raise a stonemound 3 ft base 2 ft high E. of cor.

Pits impracticable

Note: Having thus closed on the Fort Thornburg Military Reservation I abandon line

Land broken mountains

Soil 3rd rate, rocky.

Retracement part of South Bdy T. 39 S. R. 21

A few scattering cedar, sagebrush
Mountainous on 40.00 chs

April 10th 1900

For general Description see end of field notes of subdivision lines of this Tp.

Edgar F. Harrington
U. S. Dep. Surveyor

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Resurvey of a part of the East Bdy T. 3 S. R. 20 E.

chs.

Survey commenced April 24th 1900

Having ascertained from the random line bet. secs. 19 & 30 – on the final subdivision of T. 3 S. R. 21 E. – that the westerly tier of sec. lines will not close within limits on the established corners of the W. Bdy. I proceed to re-trace said W. Bdy.

Beginning at the re-established cor to secs 19. 24. 25 & 30 on W. Bdy of T. 3 S. – R. 21 E. Salt Lake Meridian, which is also the N.E. cor of the Fort Thornburg Military Reservation; said cor being a cross (+) marked on a solid sandstone ledge for true cor. point with 2 grooves on S. and 4 on N. sides of cross also marked N.E. cor O.M.R on S.W. and P.L. on N.E. sides of cross also a mound of stone 3 ft. base 2 ft high S.W. of cor. From true cor. point a pinion pine 6 in diam bears N. 19° W. 58 lks. dist marked T. 3 S. R. 20 E. sec. 24 B.T.;

thence S. run North on a blank line on the East Boundary of T. 3 S. R. 20. E.

40.00 chs. find no trace of original 1/4 sec. cor. on E. Bdy of sec. 24

80.00 chs. find no trace of original cor. to secs 13. 18. 19 & 24.

120.00 chs find no trace of original 1/4 sec. cor. on E. Bdy of sec. 13

160.00 The original cor. to secs 7. 12. 13 & 18 bears W. 1.13 chs.

200.30 The original 1/4 sec. cor on E. Bdy of sec. 12 bears West. 140 chs.

240.34 the original cor to sec 1. 6. 7 & 12 bears West 1.70 chs.

280.34 find no trace of the original 1/4 sec. cor. on E. Bdy of sec. 1

320.38 The closing cor. to Tps. 3 S. Rgs 20 & 21 E. (re-established in this survey) bears West 2.25 chs.

The uniform course of this line appears to be N. 0° 24' W., the distances agree nearly with my

Resurvey of a part of the East Bdy. of T. 3 S. - R. 20 E.

chs	
	own but several corners are missing and others need restoration I therefore proceed with a re-survey.
	April 26th 1900 At 7 h. a. m. l. m. t. I lay off 40° 32' N. on the lat arc and 13° 31' N. on the decl. arc and determine a true Meridian with the Solar at the NE. angle cor. of the Fort Thornburg Military Reservation which is also the cor. to secs. 24 & 25 in T. 3 S. R. 20 E.
	Thence I run
	N. 0° 24' W. on a re-survey line on E. Bdy of sec. 24
	Ascend
7.50	E. point of sandstone ledge 50 ft. high bears W.
11.00	Bottom of Ravine 75 ft deep drains E. beads 5.00 chs. W.
11.60	Enter dense cedars
17.50	Leave dense cedars, descend precipitous NE. slope
38.00	Bottom of Canyon 150 ft. deep drains SE. Ascend precipitous SW. slope
40.07	Find no trace of original 1/4 sec. cor Set a sandstone 12 x 8 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor Pits impracticable
57.00	Summit of reef forming W. wall of Ashley Canyon 300 ft. high bears N. 30° W. & S. 30° E. Descend precipitous NE. slope
65.00	Enter Ashley Canyon flat. bears N. 30° W & S. 30° E.
75.00	Enter dense brush of Willow Alder and Cottonwood saplings
80.14	Find no trace of the original cor. to secs. 13. 18. 19 & 24 - Set a sandstone 15 x 12 x 9 ins 10 ins. in the ground for cor to secs. 13 & 24 marked 3 notches on N. & S. edges and raised a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable

Resurvey of a part of the East Bdy of T. 3 S. R. 20 E.

chs.

A cottonwood 7 ins. diam bears S. 81° W. 58 lks. dist. marked T. 3 S. R. 20 E. S. 24 B.T.
A cottonwood 6 ins. diam bears N. 54° 45' W. 115 lks. dist. marked T. 3 S. R. 20 E. S. 13 B.T.
Land precipitous mountain and bottom
Soil 3rd and 1st rate
Dense undergrowth on N. 5.14 chs – dense cedars on 5.90 chs.
Mountainous or dense undergrowth on 70.14 chs.

N. 0° 24' W. on a re-survey line on E. Bdy of sec. 13

In dense undergrowth
2.50 Road bears NW. & SE.
5.70 Nelson Merkley's home bears W. 6.50 chs.
40.07 Find no trace of the original 1/4 sec. cor on E. Bdy of sec 13 – Set a sandstone 12 x 7 x 5 ins. – 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
57.00 Ashley Creek 50 lks. wide 2 feet deep runs S. E.
67.00 Leave Ashley Creek bottom and dense undergrowth – Ascend rocky S. slope in scattering Pine & cedars.
75.00 Summit of ridge open 50 ft. high bears N. 80° W.
76.00 Re-enter Ashley Canyon flat
80.14 In Draw drains W. on E side of Beaver pond intersect the original cor. to secs. 12 & 13 which is a sandstone 5 x 10 x 6 ins. above ground set marked and witness as described by the Surveyor General.
Land mostly river bottom, some mountains
Soil 1st and 3rd rate.
Dense undergrowth of Willow, Alder & Cottonwood on S. 67.00 chs – Scattering pine & cedar on ridge –

Mountainous or dense undergrowth on
80.14 chs.

April 26th 1900 – At this cor. I set off 13° 54'
N. on the decl. arc and at 12 h. m. l. m. t.
I observe the sun on the Meridian, the re-
sulting latitude is 40° 29' N.

N. 0° 24' W. on a resurvey line
on E. Bdy of sec. 12

3.50 Enter dense brush of Willow Alder & Cottonwood
18.00 Bitterwater Spring Branch 2 lks wide 4 ins.
deep runs S.W.
25.00 Road bears E. & W.
35.00 Leave dense undergrowth
39.00 Leave Ashley Creek feet – ascend
40.03 Intersect the original 1/4 sec. cor on E. Bdy of
sec. 12, the cornerstone however is broken and the
mound nearly obliterated so I destroy & reestablish said 1/4
sec. cor. by setting a limestone 24 x 12 x 6 ins. 18
ins. in the ground marked 1/4 on W. face and raise
a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable
60.00 Enter scattering cedars & pines
70.50 Rocky ravine 50 ft. deep drains W.
80.06 Intersect the original cor. to sec. 1 & 12; it is
a broken stone with plain markings of the proper
notches on it lying on the ground near a
very small stone mound. I destroy it and set
a sandstone 30 x 15 x 12 ins 22 ins. in the ground
for cor to secs 1 & 12 marked 1 notch on N. and
5 on S. edges and raise a mound of stone
2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable
Land S. 1/2 bottom N. 1/2 Mountainous
Soil 1st and 3rd rate
Dense undergrowth of Willow, alder & Cottonwood

Re-survey of a part of the East Bdy of T. 3 S. R. 20 E.

chs	
	on 31.50 chs – Scattering cedars & pine on N. 20.06 chs Mountainous or dense undergrowth on 76.06 chs
	N. 0° 24' W. on a resurvey line on the East Bdy of sec. 1
3.50	Rocky gulch 100 ft. deep drains S. 20° W.
29.00	Ridge spur 200 ft. high bears S.W.
40.02	Find no trace of original 1/4 sec. cor – Set a sandstone 18 x 15 x 7 ins. 12 ins. in the ground for 1/4 sec. cor – marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor Pits impracticable A pine 18 ins. diam. bears S. 53° 30' W. 58 lks. dist marked 1/4 S. 1 B.T. No other tree within limit
43.00	Bottom of rocky gulch 200 ft. deep drains S.W.
46.50	Cliff 150 ft. high bears N.E. & S.W.
74.00	Head of hollow 30 ft. deep drains S. 20° E.
80.04	The closing cor. to Tps. 3 S. Rgs. 20 & 21 E.
	Land broken high Mountainous Soil 3rd rate Scattering pine & cedars Mountainous on 80.04 chs.

April 26th 1900

For general description see end of el. subdivision notes of this Tp."

Edgar F. Harrington
U. S. Dep. Surveyor

Resurvey of a part of the East Boundary T. 3 S. R. 20 E.

Boundaries

of T. 3 S. - R. 21 E.

Latitudes - Departures and closing errors.

Line designated	True Bearing	Distance chs.	Latitudes North chs.	Latitudes South chs.	Departures East chs	Departures West chs.
North Bdy	East	482.30			482.30	
East Bdy	South	475.85		475.85		
South Bdy	S 89°24' W	360.00		3.78		360.00
Bdy Fort Thomas	N. 31° W.	126.00	108.01			64.89
Military Res.	N. 49°15' W.	75.40	51.18			55.36
West Bdy	N. 0°24' W.	320.38	320.38			2.24
Omission					.62	
			479.57	479.63	482.92	482.49
				479.57	482.49	

Error in Lat = .06 .43 = Error in Dep

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

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

United States Deputy Surveyor.

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

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

United States Surveyor General.

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

United States Surveyor General.

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BOOK A-339

C.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES

OF

TOWNSHIP NO. 3 SOUTH,

RANGE NO. 21 EAST

Of the SALT LAKE BASE AND *Meridian,*

IN THE STATE OF UTAH,

AS SURVEYED BY

Edgar F. Harmston, *United States Deputy Surveyor,*

Under his Contract No. 235, *dated* December 19th 1899, *190*

Survey commenced September 15th, *190*6.

Survey completed September 22d, *190* 6.

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JOUR. A-339

NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey,	Chainman.
Craig Harmston,	Chainman.
Mellette Harmston,	Moundman.
Bert Shisler,	Axman,
Bradner Bailey,	Flagman.

BOOK A-339

INDEX DIAGRAM.

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35		34								
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31	39	32	19	33	12	34	7	35	2	36

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles L. Bailey, ——— and Craig Harmston,
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; t
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
the subdivisional lines of T.3 S., R.21 E., S.L.B.&M., Utah.

Charles L. Bailey, Chainman
Craig Harmston, Chainman

Subscribed and sworn to before me this 10th day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

~~XXE~~, I, Mellette Harmston, ~~XXX~~
do solemnly swear that ~~wE~~ I will well and truly perform the duties of moundmen in the establishme
of corners, according to the instructions given ~~us~~ me, to the best of ~~OUR~~ MY skill and ability, in the survey
the subdivisional lines of T.3 S., R.21 E., S.L.B & M., Utah.

Mellette Harmston, Moundman
———, Moundman

Subscribed and sworn to before me this 10th day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

~~XXE~~, I, Bert Shisler
do solemnly swear that ~~wE~~ I will well and truly perform the duties of axmen in the establishment of corne
and other duties, according to instructions given ~~us~~ me, to the best of ~~OUR~~ MY skill and ability, in the survey o
the subdivisional lines of T.3 S., R.21 E., S.L.B & M., Utah.

Bert Shisler, Axman
———, Axman

Subscribed and sworn to before me this 10th day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

I, Bradner Bailey, ———, 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 th
survey of the subdivisional lines of T.3 S., R.21 E., S.L.B.&M., Utah.

Bradner Bailey, Flagman.

Subscribed and sworn to before me this 10th day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

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Chains

Survey commenced September,15,1906,and executed with a W.& L.E.Gurley light mountain transit,with solar attachment The horizontal limb is provided with two double verniers laced opposite to each other,reading to single minutes of arc,which is the least count of the latitude and declination arcs.

The instrument was examined,tested on the true meridian t Salt Lake City,found correct,and was approved by the Surveyor General for Utah,Sept.19,1903.

Sept.14th.I examine the adjustments of the transit,and correct level and collimation errors,and test the solar-apparatus by comparing its indications,resulting from solar observations made during a.m.,and p.m.,hours,with a meridian determined by Polaris observation,previously established in the Court House grounds at Vernal,Utah,by the U.S.Geological Survey;and find the meridian established by solar observations to agree with the meridian established by the Polaris observation;and the a.m.,and p.m., solar observations to agree with each other.

Sept.15:-At the cor.of Tps.3 and 4 S.,Rs.21 and 22 E. Lat.40°30'25" N.,Long.109°30'35" W.,I set off 40°30' on lat.arc;3°14'N.on decl.arc,and at 8h.55m.,a.m.,l.m.t., determine a meridian with the solar.

The magnetic bearing of the true meridian,at 8h.55m.,a.m., is N.15°45'W.,the angle thus determined gives the mag.decl. 15°45'E.

From the Tp.cor.heretofore described,I retrace N.on the range line and E.bdy.of sec.36;and at 39.98 chs. intersect ¼ sec.cor. and at 80.00 chs. fall 2 lks.W of cor. of secs.25,30,31 and 36;therefore,the line bears north.

The south bdy.of Tp.being out of limits,

I run West on sectional correction line,from cor.of secs 25,30,31 and 36. Descend.

Chains

23.70 Bottom of hollow 150 ft.below cor.drains S.30° W.

Ascend.

28.50 Top of ridge spur,40 ft.above hollow,projects S.30° W.

Descend.

30.10 Bottom of hollow 50 ft.below spur,drains S. Ascend.

40.00 Set a sandstone 15x12x4 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.

42.66 Top of ridge spur 150 ft.above hollow,projects S.30° W.

Descend.to Greene's Draw.

48.00 Bottom of hollow 150 ft.below spur,drains S.30° W.

Now across flat hollow.

51.50 Old mail road bears NE and SW.

53.70 Wash 30 lks.wide,10 ft.deep,drains S. Ascend.

58.00 Enter scattering cedars.

77.00 Leave same.

79.70 Top of rim rock of reef,bears NE and SW. Descend.

80.00 Set a limestone 15x12x8 ins.10 ins.in the ground for cor. of secs. 25,26,35,and 36,marked 1 notch on S;1 notch on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

Land broken;ridges and hollows.

Soil 3d.rate; rocky and sandy.

Timber,scrub cedar on 19 chs.

No grass for grazing.

Mountainous land on 80.chs.

S.0° 1'E.on a random line bet.secs.35 and 36.

40.00 Set temp.¼ sec.cor.

80.34 Intersect S bdy.of Tp.at cor.of secs. 1,2,35 and 36. which is a sabdstone 5x12x8 ins.above ground,set,marked and witnessed as described by the surveyor general.

Thence I run

N.0° 1'W.on a true line bet.secs. 35 and 36.

Over mountainous land.

Ascend along W slope of ridge spur.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
4.00	Enter bench bears NE and SW.
12.50	Leave same. Descend.
31.00	Old mail road,in bottom of hollow 50 ft.below bench,bear SW and NE. Hollow drains SW. Enter scattering scrub c dars
40.84	Set a sandstone 18x10x3 ins.12 ins.in the ground,for ¼ s c. cor.marked ¼ on W face,and raise a mound of stone 2 ft.b se, 1½ ft.high W of cor. Pits impracticable.
	A cedar 4 ins.diam.bears S.56°00'W. 61 lks.dist.marked ¼ S 35 B T.
	No other bearing objects available.
	Ascend over rocky SE slope.
71.00	Leave cedars.
79.15	Top of rim rock of reef,bears NE and SW. Descend.
80.84	The cor.of secs. 25;26,35,and 36.
	Land broken sandstone ridges.
	Soil 3d.rate;rocky.
	Timber,a few scattering cedars.
	No grass for grazing.
	Mountainous on 80.84 chs.

	N.0° 1'W. bet.secs. 25 and 26. Over mountainous land. Along broken W slope of reef. Descend.
23.00	Ascend.
32.00	Top of rim rock of reef,bears NW and SE.
	Now along rocky E slope of reef.
40.00	Set a sandstone 26x6x3 ins.19 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
45.00	Top of rim rock of reef,bears NE and SW. Descend.
49.50	Bottom of hollow 50 ft.below reef,drains W. Ascend.
51.50	Top of rim rock of reef 50 ft.above hollow bears SE and NW.
	Now across spur of reef projects W.
58.00	Top of rim rock of reef,bears NE and SW. Descend.
68.00	Enter Steinacker Draw,bears NE and SW.
80.00	Set a sandstone 15x10x7 ins.10 ins.in the ground,for cor.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	of secs. 23,24,25 and 26,marked 2 notches on S;1 notch on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land mountainous and level.
	Soil 1st.rate,loam;and 3d.rate,rocky.
	No timber.
	No grass for grazing.
	Mountainous land on 68.chs.

	East on a random line bet.secs. 24 and 25.
40.00	Set a temp.¼ sec.cor.
80.00	Intersect E bdy.of Tp.at cor.of secs. 24,and 25,heretofore described.
	Thence I run
	West on a true line bet.secs. 24 and 25.
	Descend,over mountainous land.
12.00	Bottom of hollow 200 ft.below cor.drains SW. Ascend.
23.00	SW point of ridge spur,100 ft.above hollow. Descend.
27.21	Old mail road bears NE and SW.
28.67	Bottom of hollow 100 ft.below point of spur,drains SW. Ascend.
31.00	Enter scattering scrub cedars.
40.00	Set a sandstone 14x12x3 ins.9 ins.in the ground,for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 4 ins.diam.bears S.65°00'E. 16 lks.dist.marked ¼ S 25 B T.
	A cedar 6 ins.diam.bears N 61°00'W. 60 lks.dist.marked ¼ S 24 B T.
48.62	Top of coal reef,bears NE and SW. Descend.
67.00	Leave scattering cedars;enter Steinacker Draw.
80.00	The cor.of secs. 23,24,25,and 26.
67/12	Land broken and level.
	Soil,1st,rate,loam;and 3d.rate,rocky.
	No grass for grazing.
	Timber,scattering cedar on 36 chs.
	Mountainous land on 67.chs.

Chains

Sept.15,1906: I set off 3°11'N on decl.arc,and ,at 11h. 55m.,l.m.t.,observe the sun on the meridian,and obtain o the lat.arc,the reading 40°32',which agrees with other d ta. N.0° 1'W.bet.secs. 23 and 24.

Over level land in Steinacker Draw,covered with shadscale and greasewood.

21.20 Leave flat;ascend rocky SW slope.

30.96 Top of rim rock of reef,bears NW and SE.

Now along E slope of reef.

40.00 Set a sandstone 24x12x3 ins.18 ins.in the ground,for ¼ s c. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.

68.00 Top of rim rock of reef bears NE and SW. Descend.

78.00 Enter scattering cedars.

80.00 Set a sandstone 36x10x6 ins.27 ins.in the ground for cor of secs. 13,14,23 and 24,marked 1 notch on E;3 notches o S edge, from which

58.80
21.20

A cedar 4 ins.diam.bears N.15°15'E. 34 lks.dist.marked T 3 S.R 21 E.S 13 B T.

A cedar 5 ins.diam.bears N.77°00'W. 22 lks.dist.marked T 3 S.R 21 E.S 14 B T.

A cedar 10 ins.diam.bears S.62°00'E. 46 lks.dist.marked T 3 S.R 21 E. S 24 B T.

A stationary sandstone 30x24x12 ins.above ground,bears S.22°30'W. 19 lks.dist.chiseled T 3 S.R 21 E.S 23 B O.

Land broken and level.

Soil 1st.rate,loam;3d.rate,rocky and sandy.

Shadscale and greasewood on 21.20 chs.

Timber,cedars on N 2 chs.

No grass for grazing.

Mountainous land on 58.80 chs.

East on a random line bet.secs. 13 and 24.

40.00 Set temp.¼ sec.cor.

80.04 Intersect E bdy.of Tp 2 lks. N of cor.of secs.13 and 24, heretofore described.

Chains	
	Thence I run
	N.39°59'W.on a true line bet,secs.13 and 24. Over mountainous land,
3.00	Leave bench;descend precipitous NW slope.
11.00	Old mail road bears NE and SW.
13.25	Bottom of hollow 150 ft.below cor.drains SW.(Greene Draw) Ascend.
25.00	Top of ridge spur,50 ft.above hollow projects SW.
	Descend.
29.00	Bottom of hollow 30 ft.below spur drains S. Ascend.
35.00	Top of ridge spur 50 ft.above hollow projects S.15° W.
	Descend.
39.25	Bottom of hollow 30 ft.below spur drains S. Ascend.
40.02	Set a sandstone 15x10x3 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
52.00	Top of ridge spur 40 ft.above hollow projects S.20° E.
	Descend. Enter scattering cedars.
54.10	Head of hollow drains SE. Ascend E slope of coal reef.
69.00	Top of rim rock of coal reef,bears NE and SW. Descend.
80.04	The cor.of secs. 13,14,23 and 24.
	Land mountainous.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 22.04 chs.
	No grass for grazing.
	Mountainous land on 69.79 chs.
	The lands north of this point being precipitous and worthless,I do not survey them.

	West on sectional correction line bet.secs. 26 and 35.
	Descend.over mountainous land.
4.00	Enter Steinaker Draw; Now across flat.
21.50	Road to sawmill bears N and S.
38.00	Wash 75 lks.wide,15 ft.deep,drains S.10°W.
40.00	Set a sandstone 12x9x6 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on N face;dig pits 18x18x12 ins.E and W of stone 3 ft.dist.and raise a mound of earth 3½ ft.base 1½

Chains	
	ft.high N.of cor.
45.64	Wash 50 lks.wide,15 ft.deep,drains S.
47.00	Leave flat;ascend.
63.85	Top of ridge spur 150 ft.above flat,projects S. Descend.
70.00	Enter flat,bears NW and SE.
75.00	Wash 15 lks.wide,3 ft.deep,drains SE.
80.00	Set a block of gypsum 15x10x4 ins,10 ins.in the ground, for cor.of secs. 26,27,34,and 35;marked 1 notch on S. 2 notches on E. edges and raise a mound of stone 2 ft. base,1½ ft.high W of cor.
	Pits impracticable.
	Land rolling.
	Soil 1st.rate,loam and 3d.rate rocky and sandy.
	No timber.
	NO grass for grazing.
	Sage brush,greasewood and shadscale.
	Dense underbrush on 80.00 chs.
	Mountainous land on 33.00 chs.

	S.0° 2'E.on a random line bet.secs. 34 and 35.
40.00	Set temp.¼ sec.cor.
81.68	Intersect S.bdy.of Tp.21 lks.E of cor.of secs.2,3,34 and 35,which is a sandstone 24x10x10 ins.set,marked and witnessed as described by the surveyor general.
	Thence I run
	N.0° 07'E. on a true line bet.secs. 34 and 35.
	Descend.
4.00	Enter flat.
5.96	By road bears E and W.
7.87	Irrigating ditch 5 lks.wide,2 ft.deep;flows E.
24.00	Enter cultivated ground.
28.00	Leave same. Leave flat. Ascend.
	Irrigating ditch 10 lks.wide,3 ft.deep,flows NE.

SUBDIVISION OF T.3 S.,R.21 E.

Chains

33.43 Barb wire fence bears NW-ly and SE-ly.

Now over broken E.slope.

37.00 Enter scattering cedars.

41.68 Set a sandstone 18x3x5 ins. 12 ins.in the ground for

¼ sec.cor. marked ¼ on W.face.

from which

A cedar 4 ins.diam.bears S.86°30'W. 63 lks.dist.marked

¼ S 34 B T.

A cedar 10 ins.diam.bears S.7°00'E. 129 lks.dist.marked

¼ S 35 B T.

42.25 Barb wire fence bears E and W.

60.00 Leave cedars;enter dense underbrush.

67.68 Road to Vernal bears NW and SE.

81.68 The cor.of secs. 26,27,34,and 35.

Land broken and level.

Soil 1st.rate,loam; 3d.rate,rocky and sandy.

Timber,scattering cedars on 25.00 chs.

A little grass for grazing.

Dense underbrush on 21.68 chs.

Mountainous land on S.4.00 chs.

N.0°32'W. bet.secs. 26 and 27.

Through scattering cedars.

Over rolling land.

3.30 Wash 20 lks.wide,5 ft.deep,drains SE.

Ascend along W. slope of ridge spur.

4[illegible].32 Set a sandstone 20x20x3 ins. 16 ins.in the ground,for

¼ sec.cor. marked ¼ on W face,

from which

A cedar 15 ins.diam.bears S.22°00'E. 36 lks.dist.marked

¼ S 23 B T.

A cedar 8 ins.diam.bears S.16°00'W. 42 lks.dist.marked

¼ S 27 B T.

Chains	
50.50	Top of ridge 150 ft.above cor.bears E and W.
	Descend.
58.00	Head of hollow drains E.
	Now ascend along W slope of ridge spur.
74.00	Top of ridge spur 50 ft.above head of hollow,projects SE.
	Descend.
76.00	Head of hollow drains SE.
	Ascend.
80.00	Set a limestone 22x8x4 ins. 16 ins.in the ground,for cor. of secs. 22,23,26,and 27,marked 2 notches on S;2 notches on E. edges,
	from which
	A cedar 4 ins.diam.bears N.77°45'E. 61 lks.dist.marked T 3 S. R 21 E. S 23 B T.
	A cedar 8 ins.diam.bears S.21°30'E. 98 lks.dist.marked T 3 S.R 21 E. S 26 B T.
	A cedar 10 ins.diam.bears S.11°00'W. 116 lks.dist.marked T 3 S.R 21 E.S 27 B T.
	A cedar 12 ins.diam.bears N.18°15'W. 160 lks.dist.marked T 3 S.R 21 E. S 22.3 T.
	Land rolling.
	Soil 2d.rate;clay.
	No grass.
	Timber,scattering cedars on 30.00 chs.
	Mountainous land on 29.50 chs.
	(September,15,1906.

	September,17: At 8h.,35 m.,a.m.,l.m.t., I set off 40°32' on the lat.arc;2°28' N on decl.arc,and determine a meridian with the solar at the cor.of secs. 22,23,26,and 27.
	Thence I run
	East on a random line bet.secs. 25 and 26.
40.00	Set temp.¼ sec.cor.
79.98	Intersect N and S. line 7 lks.N of cor.of secs. 23,24,25,

SUBDIVISION OF T.3 S.,R.21 E.

Chains	
	and 26.
	Thence I run
	N.89°57'W. on a true line bet.secs. 23 and 26.
	Across flat in Steinaker Draw.
11.00	Road to saw mills bears N and S.
18.20	Wash 45 lks.wide,15 ft.deep,drains S.
35.00	Wash 50 lks.wide,15 ft.deep,drains S.15° W. Ascend.
39.99	Top of ridge spur 30 ft.above flat,projects SE. Descend.
	Set a sandstone 14x12x3 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
62.50	Wash 10 lks.wide,3 ft.deep,drains S.15° E. Ascend.
	Enter scattering cedars.
79.98	Top of ridge spur,100 ft.above wash,projects SE.
	The cor.of secs. 22,23,26,and 27.
	Land level and rolling.
	Soil 1st.rate,loam; and 3d.rate,sandy and rocky.
	Timber,scattering cedars on 17.43 chs.
	No grass.
	Sage brush and greasewood.
	Mountainous land on 45.00 chs.

	N.0° 2'W.bet.secs. 22,and 23.
	Descend gradually.
4.30	Enter Thorne Draw,bears NW and SE.
	Now over level land.
18.00	Wash 10 lks.wide,5 ft.deep,drains SE. Ascend.
22.00	Small spring 11.00 chs. E.
40.00	Set a sandstone 18x8x6 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
59.50	SW base of sandstone hill. Ascend.
63.30	W slope of same,100 ft.above base. Descend.
65.70	NW base of same. Enter hollow drains SW.

Chains	
77.75	Wash 75 lks.wide,15 ft.deep,in bottom of hollow drains SW. Ascend.
80.00	Set a sandstone 13x8x4 ins. 9 ins.in the ground,for cor. of secs. 14,15,22,and 23,marked 3 notches on S; 2 notches on E edges,and raise a mound of stone 2 ft.base 1½ ft. high W of cor. Pits impracticable.
	Land level and broken.
	Soil 1st.rate,loam; and 3d.rate,sandy.
	No grass.
	No timber.
	Sage brush and greasewood.
	Dense underbrush on 80.00 chs.

	S.89°57'E. on a random line bet.secs. 14 and 23.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N and S.line 2 lks.S of cor.of secs. 13,14,23, and 24.
	Thence I run
	N.89°58'W. on a true line bet.secs. 14 and 23. Descend.
	Over light sloping land.
6.96	Enter flat in Steinaker Draw.
14.00	Wash 50 lks.wide 10 ft.deep,drains SW.
21.50	Road to saw mills bears NE and SW.
39.98	Set a sandstone 20x14x3 ins. 15 ins.in the ground for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.
44.00	Leave flat;ascend.
53.32	Top of ridge 150 ft.above flat,bears NE ½ mile,SW.500 ft. Descend.
56.00	Enter flat.
73.69	Barb wire fence bears N and S.
75.25	Wash 75 lks.wide 20 ft.deep,drains S.10° W. Ascend.
79.96	The cor.of secs. 14,15,22,and 23.
	Land level and broken.
	Soil 1st,rate,loam;3d.rate,sandy and rocky.

SUBDIVISION OF T.3 S.,R.21 E.

Chains	
	Sagebrush,greasewood and shadscale.
	No timber.
	No grass.
	Dense underbrush on 79.96 chs.
	Mountainous land on 18.96 chs.
	The lands N of this point being precipitous and worthless,I do not survey them.

	September,17: I set off 2°24' N on decl.arc;and,at 11h 55m.,a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading 40°33',which agrees with other data.
	West on sectional correction line,bet.secs. 27 and 34.
	Ascend over light sloping land.
5.10	Enter grass plat.
11.00	Road to Vernal bears NW and SE.
15.00	Leave grass plat;ascend; enter cedars.
18.85	Top of ridge 75 ft.above flat,bears NW and SE. Descend.
25.00	Enter flat bears NW and SE. Leave cedars;enter dense brush.
40.00	Set a sandstone 16x10x4 ins.11 ins.in the ground for ¼ sec.cor.marked ¼ on N face;dig pits 18x18x12 ins. E.and W.of stone,3 ft.dist.and raise a mound of earth 3½ ft. base,1½ ft.high N of cor.
70.10	Leave flat;ascend in cedars;leave brush.
80.00	Set a sandstone 15x10x4 ins.10 ins.in the ground,for cor of secs. 27,28,33,and 34,marked 1 notch on S; 3 notches on E.edges, from which
	A cedar 18 ins.diam.bears S.56°45'E. 50 lks.dist.marked T 3 S.,R.21 E.,S 34 B T.
	A cedar 6 ins.diam.bears N.32°30'E.66 lks.dist.marked T.3 S.,R.21 E.,S 27 B T.
	A cedar 4 ins.diam.bears S.24°30'W. 149 lks.dist.marked T.3 S.,R.21 E.,S. 33 B T.
	A cedar 8 ins.diam.bears N.9°45'W.86 lks.dist.marked

SUBDIVISION OF T.3 S. R.21 E.

Chains

T.3 S.,R.21 E.,S. 28 B T.

Land broken and level.

Soil 3d.rate; very sandy.

Timber,scattering cedars on 19.90 chs.

Sage brush and greasewood.

Grass on 9.90 chs.

Dense underbrush on 45.10 chs.

Mountainous land on 29.90 chs.

S.0°2'E. on a random line bet.secs. 33 and 34.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

82.52 Intersect S. bdy.of Tp. 27 lks. E. of cor.of secs. 3,4,33, and 34,which is a sandstone 9x8x8 ins.above ground,marke and witnessed as described by the surveyor general.

Thence I run

N.0° E.0" E.on a true line bet.secs. 33 and 34. Ascend.

Over broken land.

8.00 Top of ridge 200 ft.above cor.bears E.and W. Descend.

20.00 Wash 40 lks.wide,20 ft.deep,in hollow draining E.

21.95 Wash 60 lks.wide,20 ft.deep,in same hollow,drains E. Asc nd.

33.50 Top of ridge spur,150 ft.above bottom of hollow,projects E. Descend.

42.52 Set a limestone 18x10x4 ins. 12 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face, from which

A cedar 4 ins.diam.bears N.68°00'W. 27 lks.dist.marked $\frac{1}{4}$ S 33 B T.

A cedar 6 ins.diam.bears S.26°00'E. 43 lks.dist.marked $\frac{1}{4}$ S 34 B T.

43.50 Bottom of hollow 100 ft.below spur,drains SE. Ascend.

44.70 E.point of ridge spur. Descend.

48.50 Road to Vernal,bears NW and SE.

52.00 Bottom of hollow 150 ft.below spur,drains SE. Ascend.

63.50 Top of ridge spur,150 ft.above hollow projects E. Descend.

67.50 Bottom of hollow 40 ft.below spur,drains E. Ascend.

75.50 Top of ridge spur 50 ft.above hollow,projects E. Descend.

82.52 The cor.of secs. 27,28,33,and 34.

Chains	
	Land broken.
	Soil 3d.rate;rocky.
	Timber,a few scattering scrub cedars.
	Greasewood and sage.
	A little grass for grazing.
	Mountainous land on 60.00 chs.
	(September,17,1906.

	September,18: At 7h.24m.,a.m.,l.m.t., I set off 40°31' on lat.arc;2°06'N.on decl.arc,and determine a meridian with the solar,at the cor.of secs. 27,28,33,and 34,heretofore described.
	Thence I run
	N.0° 2'W. bet.secs. 27 and 28.
	Descend in cedars;over broken land.
3.00	Bottom of hollow 50 ft.below cor.drains SE. Ascend.
8.72	Top of ridge spur 75 ft.above hollow,projects SE. Descend.
11.50	Bottom of hollow 75 ft.below spur,drains E. Ascend.
15.20	Top of ridge spur 75 ft.above hollow,projects E. Descend.
25.00	Bottom of hollow 30 ft.below spur,drains E. Ascend.
34.50	Top of ridge spur 100 ft.above hollow,projects SE. Descend
40.00	Set a sandstone 24x10x3 ins. 18 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,from which
	A cedar 4 ins.diam.bears S.83°00'E. 35 lks.dist.marked ¼ S 27 B T.
	A cedar 12 ins.diam.bears N.58°00'W. 17 lks.dist.marked ¼ S 28 B T.
43.35	Bottom of hollow 100 ft.below spur,drains SE.
	Road to Vernal in bottom of hollow bears SE and NW.
45.00	Ascend over bare sandstone surface.
66.37	Top of ridge 150 ft.above hollow,bears S.70° E. and N.70° W. Descend.
70.00	Bottom of hollow 20 ft.below ridge,drains E.
76.63	Gully 30 ft.deep,drains SE.
80.00	Set a sandstone 18x10x3 ins.in a stone mound,for cor.of secs. 21,22,27,and 28,marked 2 notches on S;3 notches on E.edges, from which
	A cedar 12 ins.diam.bears N.53°30'E. 69 lks.dist.marked T 3 S.,R.21 E.,S.22 B T.
	A cedar 10 ins.diam.bears S.60°00'E. 107 lks.dist.marked T.3 S.,R.21 E.,S.27 B T.

Chains	
	A cedar 5 ins.diam.bears S.64°00'W.55 lks.dist.marked T 3 S.R 21 E. S 28 B T.
	A cedar 12 ins.diam.bears N.7°30'W. 127 lks.dist.marked T 3 S.R 21 E.S 21 B T.
	Land very broken.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 80 chs.
	No grass.
	Mountainous land on 80 chs.

	September,18,1906: I set off 2°1'N on the decl.arc;and,at 11h.54m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading 40° 32',which agrees with other data.
	Thence I run
	E on a random line bet.secs. 22 and 27.
40.00	Set temp.¼ sec.cor.
80.01	Intersect N and S line 2 lks.N of cor.of secs.22,23, 26 and 27,heretofore described.
	Thence I run
	N.89°59'W.on a true line bet.secs.22 and 27.
	Descend in scattering cedars,over mountainous land.
6.50	Head of hollow drains N. Ascend.
15.00	Top of ridge spur 75 ft.above head of hollow projects N. Descend.
33.00	Bottom of box canyon 150 ft.deep,drains N. Ascend.
38.50	Top of sandstone ridge 150 ft.above canyon,bears NW-SE.
40.00½	Set a sandstone 20x12x3 ins.15 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 10 ins.diam.bears N.0°30'E. 79 lks.dist.marked ¼ S 22 B T.
	A cedar 6 ins.diam.bears S.53°00'W. 198 lks.dist.marked ¼ S 27 B T.
53.00	Top of sandstone knoll 20 ft.high. Descend.
56.50	E wall of box canyon 100 ft.deep,drains N. Descend.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
62.25	W wall of box canyon 100 ft.high. Ascend.
65.50	Top of sandstone spur 75 ft.above top of canyon wall, projects N from hill. Descend.
67.00	E wall of box canyon 75 ft.deep,bears N and S.
69.00	W wall of box canyon 75 ft.high,bears N and S. Ascend. In cedars.
80.01	Cor.of secs. 21,22,27 and 28.
	Land mountainous.
	Soil 3d.rate rocky.
	Timber,scattering cedars on 80 chs.
	No grass.
	Mountainous land on 80.01 chs.

	N.0° 2'W.bet.secs. 21 and 22.
	Gradual descent over broken country in scattering cedar
21.50	Bottom of hollow 100 ft.below cor.drains E. Ascend.
36.20	Top of rocky ridge 150 ft.above hollow bears E and W. Descend.
40.00	Set a sandstone 20x10x4 ins.15 ins.in the ground for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 12 ins.diam.bears S.25°00'E. 12 lks.dist.marked ¼ S 22 B T.
	A cedar 14 ins.diam.bears S.53°30'W. 35 lks.dist.marked ¼ S 21 B T.
	Now ascend over broken sandstone ledges.
80.00	Set a sandstone 24x9x4 ins.in a mound of stone for cor. of secs.15,16,21,and 22,marked 3 notches on S;and E edges;T 3 S on NE and R 21 E on SE face, from which
	A cedar 9 ins.diam.bears S.26°15'E. 112 lks.dist.marked T 3 S.R 21 E. S 22 B T.
	A cedar 20 ins.diam.bears S 30°30'W.47 lks.dist.marked T 3 S.R 21 E.S 21 B T.
	No other trees within limits.
	Raise a mound of stone 2 ft.base 1½ ft.high W of cor.
	Pits impracticable.

Chains Land mountainous.

Soil 3d.rate,stony.

Timber,scattering cedars on 80 chs.

No grass.

Mountainous land on 80 chs.

S.89°59'E.on a random line bet.secs. 15 and 22.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.10 Intersect N and S line at cor.of secs.14,15,22,and 23.

Thence I run

N.89°59'W.on a true line bet.secs. 15 and 22. Descend.
Over mountainous land.

11.00 Bottom of hollow 20 ft.below cor.drains S. Ascend.

19.50 Top of ridge spur 75 ft.above hollow projects S. Descend.

27.00 Precipice 75 ft.deep bears NW and SE,on E side of basin. Descend.

39.00 Precipice 30 ft.high on W side of basin bears NW and SE. Ascend.

40.05 Cor.point falls on face of sloping sandstone surface,chiseled a cross (x) at true cor.point,with $\frac{1}{4}$ on N of same, and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high at base of slope;no bearing objects available.

46.50 Top of sandstone spur 100 ft.above basin projects S. Descend.

55.00 Precipice 100 ft.deep bears N and S.on E side of canyon. Descend.

57.50 Bottom of canyon 100 ft.below spur,drains SE.

61.50 Precipice 100 ft.high bears N and S. on W side of canyon. Ascend.

80.10 The cor.of secs.15,16,21 and 22.

Land mountainous.

Soil 3d.rate,sandy and stony.

No timber.

No grass.

Cactus and greasewood.

Mountainous land on 80.10 chs.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	The land north of this point being precipitous and worthless, I do not survey it.
	West on sectional correction line, bet. secs. 28 and 33. Ascend gradually in cedars, over broken land.
17.00	Foot of sandstone ledge 100 ft. high bears N and S. Ascend.
20.23	Top of same. Descend gradually in cedars.
27.50	Bottom of hollow 50 ft. below top of ledge drains SE. Ascend.
33.00	Road to Vernal bears NW and SE.
40.00	Set a limestone 15x8x5 ins. 10 ins. in the ground, for ¼ sec. cor. marked ¼ on N face, from which
	A cedar 5 ins. diam. bears S.25°00'W. 51 lks. dist. marked ¼ S 33 B T.
	A cedar 6 ins. diam. bears N.70°15'E. 43 lks. dist. marked ¼ S 28 B T.
41.25	E side of rocky canyon 75 ft. below road bears SE and NW. Descend.
43.50	Bottom of canyon drains SE. Ascend.
46.50	W side of canyon ascend 75 ft.
50.53	Top of ridge spur 150 ft. above bottom of canyon projects SE. Descend.
70.25	Bottom of rocky hollow 75 ft. below spur drains SE. Ascend.
80.00	Set a sandstone 30x12x6 ins. 22 ins. in the ground, for cor. of secs. 28, 29, 32, and 33. marked 1 notch on S; 4 notches on E edge, from which
	A cedar 10 ins. diam. bears N.12°30'E. 71 lks. dist. marked T 3 S.R 21 E.S 28 B T.
	A cedar 5 ins. diam. bears S.52°38'E. 135 lks. dist. marked T 3 S.R 21 E.S 33 B T.
	A cedar 6 ins. diam. bears S.12°30'W. 110 lks. dist. marked T 3 S.R 21 E.S 32 B T.
	A cedar 4 ins. diam. bears N.55°00'W. 79 lks. dist. marked

SUBDIVISION OF T 3 S.R 21 E.

Chains

T 3 S.R 21 E.S 29 B T.

Land broken.

Soil 3d.rate,rocky.

Timber,scattering cedar.

Mountainous land on 80 chs.

(September,18th.1906.

September,19: At 7h.24m.,a.m.,l.m.t.,I set off 40°31'on lat.arc;1°43'N.on decl.arc,and determine a meridian with the solar at the cor.of secs.28,29,32,and 33.

Thence I run

S.0°3'E. on a random line bet.secs.32 and 33.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

83.34 Intersect S bdy.of Tp.at cor.of secs. 4,5,32,and 33. which is a charred cedar 4 ins.square showing $2\frac{1}{2}$ ft.above ground,marked and witnessed as described by the surveyor general.

Thence I run

N.0°3'W.on a true line bet.secs.32 and 33.

Across sage flat.

15.00 Road to Vernal bears NW and SE.

20.00 Enter dense cedars.

27.50 Road to Vernal bears NW and SE.

43.34 Cut a cross at true cor.point on sandstone ledge,with $\frac{1}{4}$ on W of same,raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. from which

A cedar 5 ins.diam.bears S.89°00'E. 73 lks.dist.marked $\frac{1}{4}$ S 33 B T.

No other bearing trees within limits.

65.40 Precipice 10 ft.deep,bears NW and SE. Descend.

68.40 Bottom of hollow 30 ft.below precipice drains SE.

69.40 Precipice 20 ft.high bears NW and SE. Ascend.

78.00 Road to Vernal bears NW and SE. Ascend.

83.34 The cor.of secs. 28,29,32,and 33.

Land broken.

Soil 3d.rate;very sandy.

Chains	
	Timber, dense cedars on 63.34 chs.
	Underbrush, dense sage brush on S 20 chs.
	Mountainous land on 83.64 chs.

	N.0° 3'W. bet. secs. 28 and 29.
	Descend gradually, over broken land.
7.00	Gully 20 ft. below cor. drains SE.
	Ascend in cedars.
13.00	Top of ridge spur 50 ft. above gully projects SE. Descend
22.60	Bottom of rocky gulch 50 ft. below spur drains SE. Ascend
33.00	Foot of sandstone precipice 25 ft. high bears SE and NW.
	Ascend.
36.30	Top of ridge 150 ft. above gulch bears NW and SE.
	Descend.
39.90	Road to Vernal bears NW and SE.
40.00	Set a limestone 18x10x5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on W face, from which
	A cedar 8 ins. diam. bears N.81°30'W. 24 lks. dist. marked ¼ S 29 B T.
	A cedar 12 ins. diam. bears S.84°00'E. 55 lks. dist. marked ¼ S 28 B T.
53.50	Bottom of gully 30 ft. below cor. drains NW. Ascend.
60.00	Top of ridge spur 35 ft. above gully projects NW. Descend
75.00	Enter flat; leave cedars.
80.00	Set a sandstone 24x12x3 ins. 18 ins. in the ground, for cor of secs. 20, 21, 28 and 29, marked 2 notches on S; 4 notches on E edge; dig pits 18x18x12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W of cor.
	Land broken and level.
	Soil 1st. and 3d. rate, rocky.
	Timber, scattering cedars on S. 68 chs.
	Sage brush on N 5 chs.
	No grass.
	Mountainous land on 80. chs.

Chains	
	East on a random line bet.secs. 21 and 28.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.03	Intersect N and S line 7 lks.N of cor.of secs. 21,22,27, and 28,heretofore described.
	Thence I run
	N.89° 57'W on a true line bet.secs.21 and 28.
	Ascend in dense cedars.over rolling land.
12.21	Top of sandstone column 100 ft.high 100 ft.in diam.
	Descend.
28.50	Leave cedars.
36.75	Re-enter cedars.
40.01$\frac{1}{2}$	Set a sandstone 18x14x6 ins.12 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face, from which
	A cedar 8 ins.diam.bears N.6°00'E.33 lks.dist.marked $\frac{1}{4}$ S 21 B T.
	A cedar 6 ins.diam.bears S 55°45'E.41 lks.dist.marked $\frac{1}{4}$ S 28 B T.
54.00	Leave flat;leave cedars.
59.75	Bottom of hollow 100 ft.below flat drains SE. Ascend.
61.55	Road to Vernal bears NW and SE.
80.03	The cor.of secs. 20,21,28 and 29.
34.28 / 45.75	Land rolling and level.
	Soil 1st.and 2d.rate sandy.
	Timber,scattering cedars on 45.75 chs.
	Under brush,dense sage brush on 34.28 chs.

	Sept.19th,1906: I set off 1°38'N on the decl.arc;and,at 11h.54m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc the reading 40° 32',which agrees with other data.
	Thence I run
	N.0° 3'W.bet secs.20 and 21,over mountainous land.
10.05	Road to Vernal bears NW and SE.
15.50	Top of ridge spur 50 ft.above cor.projects SW. Descend.
20.00	Enter Spring Creek flat.

Chains	
39.00	Leave same;ascend.
40.00	Stationary sandstone 6x4x3 ft. above ground,marked same with $\frac{1}{4}$ on W face,at true cor.point,for $\frac{1}{4}$ sec.cor.and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
44.00	Precipice 10 ft.deep,bears NW and SE. Descend.
46.00	Bottom of gulch 20 ft.below top of precipice drains SE. Ascend.
47.00	Precipice 10 ft.high bears NW and SE. Ascend.
47.50	Enter plateau sloping to SE. Ascend.
63.50	Leave plateau;descend.
65.00	Bottom of gulch 150 ft.below plateau drains SE. Ascend.
80.00	Set a sandstone 36x10x3 ins.24 ins.in the ground,for cor. of secs.16,17,20,and 21,marked 3 notches on S;4 notches on E edge,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.

Land mountainous.

Soil 3d.rate,rocky.

Underbrush,sage brush.

No timber.

No grass.

Mountainous land on 80.chs.

S.89°57'E.on a random line bet.secs.16 and 21.

40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.08	Intersect N and S line 2 lks.S of cor.of secs. 15,16,21, and 22.

Thence I run

N.89°58'W.on a true line bet.secs.16 and 21. Ascend.
Over mountainous land.

38.00	Top of ridge spur 100 ft.above cor.projects SE. Descend.
40.04	Set a sandstone 20x10x4 ins.15 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
42.00	Precipice 40 ft.deep bears NW and SE. on E side of gulch.

SUBDIVISION OF T 3 S.R 21 E.

Chain	
43.50	Bottom of gulch 50 ft.below top of precipice drains SE. Ascend.
51.50	Top of ridge spur 50 ft.above gulch projects SE. Descend.
63.00	Precipice 40 ft.deep,bears NW and SE on E side of gulch. Descend.
65.00	Bottom of gulch 50 ft.below top of precipice drains SE. Ascend.
80.08	The cor.of secs.16,17,20,and 21,heretofore described.

Land mountaionous.

Soil 3d.rate,stony.

Undergrowth,dense deer brush on 20 chs.

No grass.

No timber.

Mountainous land on 80.08 chs.

N.0°3'W.bet.secs.16 and 17.

Descend.over mountainous land.

15.00 Bottom of gulch 25 ft.below cor.drains SE. Ascend.

Enter cedars.

40.00 Set a sandstone 18x14x5 ins.12 ins.in the ground for ¼ sec.cor.marked ¼ on W face, from which

A cedar 18 ins.diam.bears S.85°00'E.27 lks.dist.marked ¼ S 16 B T.

A cedar 12 ins.diam.bears S.74°00'W. 30 lks.dist.marked ¼ S 17 B T.

42.00 Top of Red Mt.spur 150 ft.above bottom of gulch projects SW. Descend.

52.50 Bottom of hollow 75 ft.below spur drains SW. Ascend.

64.00 Top of ridge spur 50 ft.above hollow projects W. Descend.

68.50 Bottom of hollow 50 ft.below spur drains W. Ascend.

Leave cedars.

80.00 Set a sandstone 12x8x6 ins.8 ins.in the ground for cor. of secs.8,9,16,and 17,marked 4 notches on E;4 notches on S edges and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

Chains	
	Land mountainous.
	Soil 3d.rate,rocky.
	Undergrowth,sage brush.
	Some grass.
	Timber,cedars on 53.50 chs.
	Mountainous land on 80.00 chs.
	The land east of this point being precipitous and worth less I do not survey same.
	(September,19th.1906.

	September,20th: At 7h.24m.,a.m.,l.m.t.,I set off 40°34' on lat.arc;1°20'N on decl.arc;and determine a meridian with the solar at the cor.of secs. 8,9,16,and 17.
	Thence I run
	N.0°3'W.bet.secs. 8 and 9.
	Ascend.over broken land.
17.00	Top of ridge spur 25 ft.above cor.projects SW. Descend.
21.00	Bottom of hollow 30 ft.below spur drains SW. Ascend.
29.00	Top of ridge spur 40 ft.above hollow projects SW. Desce.
	Enter cedars.
40.00	Set a sandstone 18x10x3 ins.8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 15 ins.diam.bears N.85°00'E.66 lks.dist.marked ¼ S 9 B T.
	A cedar 5 ins.diam.bears N.36° 30'W. 90 lks.dist.marked ¼ S 8 B T.
45.00	Now over broken W slope;leave cedars.
78.00	Bottom of hollow 25 ft.deep,drains SW. Ascend.
80.00	Set a limestone 18x15x4 ins.12 ins.in the ground,for cor. of secs. 4,5,8,and 9,marked 4 notches on E;5 notches on S edges and raise a mound of stone 3 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil 3d.rate,stony.
	No grass.
	Timber,cedars on 16 chs.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	Mountainous land on 80.00 chs.
	The land east of this point being worthless I do not s r-vey it.

	N.0° 3'W.on a random line bet.secs.4 and 5.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
75.90	Intersect N bdy.of Tp.at closing cor.of secs.4 and 5 ore heretofore described.
	Thence I run S.0° 3'E.on a true line bet.secs. 4 and 5. Over mountainous land,in sage brush.
4.00	Bottom of gulch 50 ft.below cor.drains SW. Ascend.
14.90	Top of ridge spur 50 ft.above gulch projects SW. Descend.
24.00	Bottom of gulch 50 ft.below spur drains SW. Ascend.
35.90	Set a limestone 15x12x3 ins.10 ins.in the ground,for $\frac{1}{4}$ s c. cor.marked $\frac{1}{4}$ on W face and raise a mound of stone 2 ft.b se $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
43.40	Road to Vernal on top of ridge spur,40 ft.above bottom o' gulch,road bears NE and SW;ridge spur projects SW.
	Descend in cedars;leave sage brush.
57.90	Bottom of gulch 40 ft.below spur drains S.
	Now descend in gulch. Leave cedars;reenter sage brus .
71.00	Leave gulch. Ascend.
75.90	The cor.of secs.4,5,8,and 9.
	Land mountainous.
	Soil 3d.rate rocky.
	Undergrowth,dense sage brush on 61.40 chs.
	Timber,cedars on 14.50 chs.
	Mountainous land on 75.90 chs.

	West on sectional correction line,bet.secs. 29 and 32.
	Ascend in cedars,over mountainous land.
3.75	Road to Vernal bears NW and SE.
18.00	Top of ridge spur 200 ft.above cor.projects SE. Descend
21.40	Precipice 75 ft.deep on E side of gully bears N and S.
	Descend.
23.00	Bottom of sandstone gully 75 ft.below top of precipice, drains S. Ascend.

Chains	
23.90	Precipice on W side of gully 75 ft.high bears N and S. Ascend.
24.50	Top of ridge spur 100 ft.above gully projects S. Descend.
26.00	E side of box canyon 150 ft.deep drains SE.
27.50	W side of same. Ascend.
35.54	Top of ridge spur 150 ft.above bottom of canyon projects S. Descend.
40.00	Set a sandstone 18x10x3 ins.12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 12 ins.diam.bears N.68°30'W.90 lks.dist.marked ¼ S 29 B T.
	A cedar 15 ins.diam.bears S.84.30'W.109 lks.dist.marked ¼ S 32 B T.
47.00	Bottom of sandstone gully 40 ft.below cor.drains SW. Ascend.
49.00	Top of ridge spur 75 ft.above gully projects S. Descend.
51.00	Bottom of sandstone gully 40 ft.below spur,drains S. Ascend,
63.39	Top of sandstone cliffs 200 ft.above gully bear N and S. Descend.
69.52	Top of sandstone cliffs 300 ft.above bottom along Ashley creek,bear N and S. Descend.
80.00	Set a sandstone 18x12x8 ins.12 ins.in the ground for cor. of secs.29,30,31,and 32,marked 1 notch on S;5 notches on E edges, from which
	A stationary sandstone 10x6x2 ft.above ground,bears N.17° 00'E. 155 lks.dist.chiseled T 3 S.R 21 E.S 29 B 0 at the true cor.point.
	A cedar 6 ins.diam.bears S.56°30'E. 163 lks.dist.marked T 3 S.R 21 E.S 32 B T.
	A cedar 8 ins.diam.bears N.6°00'W.144 lks.dist.marked T 3 S.R 21 E. S 30 B T.
	No other trees within limits.

Chains

Raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor.

Pits impracticable.

Land mountainous.

Soil 3d.rate,sandy and rocky.

Timber,cedars on 80 chs.

No grass.

Mountainous land on 80.chs.

Knowing that I will intersect the boundary of the Fort T orn-burg Military reservation within 80 chs.

I run

S.0°4'E.on a true line bet.fracl.secs.31 and 32.

Over canyon bottom.

17.09 Intersect NE bdy.of old Ft.Thornburg Military reservatio at S.31°00'E. 2.22 chs,from 3 mile cor.on said bdy.which is a pine post 4 ins.square,showing $2\frac{1}{2}$ ft.above ground,mark d and witnessed as described by the surveyor general.

At intersection,set a sandstone 15x10x4 ins.10 ins.in t e ground,for closing cor.of fracl.secs.31 and 32,of this s r-vey,marked 5 grooves and CC on N;5 grooves on E faces an raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N of cor. Pits im-practicable.

Land canyon bottom.

Soil 2d.rate,sandy and rocky.

No timber; growth,willows on 17.09 chs.

Dense undergrowth of willows on 17.09 chs.

West on sectional correction line bet.secs. 30 and 31.

Over canyon bottom.

5.00 E bank of Ashley creek,75 lks.wide,18 ins.deep,rocky bottom rapid current,flows S.

5.75 W bank of same;enter dense willow brush.

10.25 Intersect NE bdy.of old Ft.Thornburg Military reservatio at N.31°00'W. 17.73 chs.from 3 mile cor.on said bdy.here o-fore described.

Set a sandstone 24x12x5 ins.18 ins.in the ground,for cl s-

Chains	
	-ing cor.of fracl.secs.30 and 31 of this survey,marked 1 groove on S and 5 grooves and CC on E face,and raise a mound of stone ft.base 1½ ft.high E of cor. Pits impracticable.
	Land,bottom of Ashley canyon.
	Soil 2d.rate,sandy and rocky.
	Dense undergrowth,willows on 10.25 chs.
	No timber.

	September,20th.1906:I set off 1°15'N on the decl.arc,and at 11h.54m.,a.m.,l.m.t.,observe the sun on the meridian, obtain on the lat.arc the reading 40°71',which agrees wi other data.
	Thence I run
	N.0°4'W.bet.fracl.secs.29 and 30.
	Ascend gradually in Ashley creek bottom,along foot of cliff.
15.50	Foot of cliffs,500 ft.above creek bottom,bear NW and SE. Ascend.
34.50	Top of ridge spur 75 ft.above top of cliffs,projects NW. Descend. Enter cedars.
40.00	Set a sandstone 15x12x3 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on W face,from which
	A cedar 4 ins.diam.bears N.68°00'E.26 lks.dist.marked ¼ S 29 B T.
	A cedar 10 ins.diam.bears N.38°00'W. 16 lks.dist.marked ¼ S 30 B T.
43.50	Bottom of hollow 50 ft.below spur,drains NW. Ascend.
49.00	Top of ridge spur 50 ft.above hollow,projects NW. Descen
80.00	Set a sandstone 20x8x6 ins.15 ins.in the ground,for cor.o secs.19,20,29,and fracl.sec.30,marked 3 notches on S;5 notches on E edges, from which
	A cedar 9 ins.diam.bears S.72°30'E. 125 lks.dist.marked T 3 S R 21 E S 29 B T.
	A cedar 4 ins.diam.bears S.70°30'W. 97 lks.dist.marked

SUBD VISION OF T 3 S.R 21 E.

Chains

T 3 S.R 21 E.S 30.B.T.

No other trees within limits.

Raise a mound of stone 2 ft.base 1½ ft.high W of cor.

Pits impracticable.

Land mountainous.

Soil 3d.rate,sandy and rocky.

Timber,cedars on 45.50 chs.

Mountainous land on S 64.50 chs.

East on a random line bet.secs.20 and 29.

40.00 Set temp.¼ sec.cor.

79.97 Intersect N and S line 5 lks.N of cor.of secs.20,21,28, and 29.

Thence I run

N.89°58'W.on a true line bet.secs.20 and 29.

Descend over rolling land.

15.00 Wash 6 lks.wide 2 ft.deep,drains NW. Ascend.

23.00 Top of ridge 100 ft.above wash bears S.20° E.and N.20° W. Descend.

39.32 Road to Vernal bears NW and SE.

39.98½ Set a sandstone 14x9x8 ins.10 ins.in the ground for ¼ sec. cor.marked ¼ on N face and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.

40.00 Road to Vernal bears NW and SE.

46.85 Road to Vernal bears NW and SE.

52.50 Leave flat;ascend.

56.00 Top of ridge spur 60 ft.above flat projects NW. Descend.

61.00 Bottom of hollow 60 ft.below spur drains NW. Ascend.

71.00 Top of ridge spur 100 ft.above hollow projects NW. Descend. Enter scattering cedars.

79.97 The cor.of secs.19,20,29,and 30.

71.00
8.97

Land rolling and mountainous.

Soil 1st.and 3d.rate sandy.

Timber,cedars on 9 chs.

Undergrowth,dense sage brush on W 71.00 chs.

(September,20th.1906.

SUBDIVISION OF T 3 S.R.21 E.

Chains	
	September 21st:- At 7h.23m.,a.m.,l.m.t.,I.set off 40°32' on lat.arc;0°56'N on decl.arc;and determine a meridian with the solar at the cor.of secs.19,20,29,and 30. Knowing that I will not strike the cor.of secs. 24,and 25 on W bdy.of Tp.within limits.
	I run
	West on a true line bet.secs.19 and fracl.sec.30.
	Descend.over rolling land.
12.00	Spring creek 10 lks.wide,3 ins.deep,in channel 75 lks. wide 15 ft.deep,drains SW.
18.50	Road to Vernal bears NE and SW.
26.00	Foot of sandstone cliffs bear NE and SW. Ascend.
33.50	Top of same 100 ft.above base,descend over bare sandstone
40.00	Cor.point falls on bare sandstone surface,cut a cross (x at true cor.point,with ¼ on N and raise a mound of stone 2 ft.base 1½ ft.high N. of cor. Pits impracticable.
41.00	Enter Ashley creek bottom.
41.50	Enter dense willow brush.
47.50	Ashley creek 70 lks.wide,18 ins.deep,rocky bottom,rapid current,flows S.
	George Bills' house bears N.75°00'W. 10.chs.dist.
53.00	Leave brush;ascend.
56.00	Foot of sandstone cliffs 200 ft.above bottom bear NW-SE.
56.50	Top of same. Descend.
60.00	Bottom of gulch 150 ft.below top of cliffs drains SE. Ascend.
61.00	Enter rocky bench 100 ft.above gulch bears NW and SE. Now across same.
70.00	Leave bench;descend.
72.00	Bottom of gulch 75 ft.below bench drains SE.
80.35	Intersect W bdy.of Tp.4.80 chs.N.0°24'W. of cor.of secs. 19,24,25,and 30.which is a sandstone 4x7x7 ins.above ground marked and witnessed as described by the surveyor general.
	Set a sandstone 24x15x6 ins.18 ins.in the ground for c.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	closing.cor.of secs.19 and fracl.sec.30,marked 2 grooves on 4 grooves on N and CC on E faces;and raise a mound of stone 2 ft.base 1½ ft.high E of cor. Pits impracticable.
	I:destroy:all:marks on cor.of secs. 19,24,25,and 30 pertaini to:secs:19 and 30.
	Land mountainous.
	Soil 1st.and 3d.rate;black loam,and rocky.
	Dense undergrowth,willow brush:on 11.50 chs chs.
	No timber:
	Mountainous land on 80.25 chs.

	N.0°4'W.bet.secs.19 and 20. Over mountainous land,in sage brush.
8.50	Sandstone precipice 75 ft.high bears W.1 ch.E:10 chs.
	Ascend; Now across top of spur,projects W.
9.40	Precipice 75 ft,deep,bears E and W. Descend.
10.00	Spring creek 10 lks.wide 4 ins.deep,in channel 60 lks.wide 25 ft.deep,drains SW. Ascend.
21.50	Road to Vernal bears NE and SW.
32.00	Enter scattering scrub cedars;leave sage brush.
40.00	Set a sandstone 14x10x7 ins.9 ins.in the ground,for ¼ sec. cor.marked ¼ on W face, from which
	A cedar 6 ins.diam.bears S 31°15'E.40 lks.dist.marked ¼ S 20 B T.
	A cedar 4 ins.diam.bears S.61°15'W.21 lks.dist.marked ¼ S 19 B T.
45.00	Top of ridge spur 40 ft.above cor.projects S.70°00'E. 3 chs. Descend.
68.50	Road in bottom of hollow 30 ft.below spur,bears SE and NW; hollow drains SE.
80.00	Set a sandstone 30x20x4 ins.22 ins.in the ground for cor.of secs.17,18,19,and 20,marked 3 notches on S;5 notches on edges, from which
	A cedar 5 ins.diam.bears N.61°00'E.13 lks.dist.marked T 3 S.R 21 E.S 17 B T.
	A cedar 8 ins.diam.bears S.18°00'E.13 lks.dist.marked

Chains	
	T 3 S.R 21 E.S 20 B T.
	A cedar 12 ins.diam.bears S.83°15'W.27 lks.dist.marked
	T 3 S.R 21 E.S 19 B T.
	A cedar 8 ins.diam.bears N.34°30'W.37 lks.dist.marked
	T 3 S.R 21 E S 18 B T.
	Land mountainous.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 48.chs.
	Undergrowth,dense sagebrush on 32 chs.
	No grass.
	Mountainous land on 80 chs.

	S.89°58'E.on a random line bet.secs.17 and 20.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N and S line 2 lks.N of cor.of secs.16,17,20,and 21.
	Thence I run
	N.89°57'W.on a true line bet.secs.17 and 20.
	Ascend.over mountainous land.
5.50	Top of rocky ridge spur 50 ft.above cor.projects SE.
	Descend.
15.00	Bottom of gulch 300 ft.below spur drains SE. Ascend.
21.00	Top of ridge spur 300 ft.above gulch projects SE.
	Descend.
30.00	Enter sage brush flat along Spring creek,bears N and S.
37.50	Road to Vernal bears N and S.
40.01	Set a sandstone 20x20x7 ins.15 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft base $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
40.50	Spring creek 10 lks.wide,2 ins.deep,in channel 75 lks. wide,25 ft.deep,drains S.
	Ascend over broken E slope in scattering cedars.
42.00	Road to Vernal bears NE and SW.
60.00	Top of ridge spur 100 ft.above Spring creek projects S.
	Descend.

Chains	
80.02	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil 2d.and 3d.rate,sandy and rocky.
	Timber,scattering cedars on 39.52 chs.
	No grass.
	Mountainous land on 80.02 chs.
	———————————
	Knowing that I will not strike the cor.of secs.18 and 19 on W bdy.of Tp.within limits
	I run
	West on a true line bet.secs. 18 and 19.
	Descend in scattering cedars.over mountainous land.
7.50	Bottom of hollow 25 ft.below cor.drains SE. Ascend.
10.00	Road bears NW and SE.
25.00	Ascend precipitous NE slope.
34.30	Precipice 100 ft.high bears NW 50 lks.SE.20 chs. Ascend.
35.15	Precipice 100 ft.deep,bears NE 50 lks.SW.20 chs. Descend.
40.00	Set a sandstone 16x14x8 ins.11 ins.in the ground for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 8 ins.diam.bears N 20°00'W. 24 lks.dist.marked ¼ S 18 B T.
	A cedar 7 ins.diam.bears S.14°30'W.35 lks.dist.marked ¼ S 19 B T.
57.50	Leave cedars;enter hollow 75 ft.below cor.drains SW.
59.00	Road bears NE and SW in hollow. Ascend.
64.00	South point of sandy ridge spur. Descend.
69.50	E channel of Ashley creek 10 lks.wide 10 ins.deep,flows SE.
70.00	Enter dense willow brush.
72.50	Main channel of Ashley creek 30 lks.wide 18 ins.deep,flows S. rocky bottom rapid current.
80.78	Intersect W bdy.of Tp.4.85 chs.N.0°24'W.of cor.of secs.17
80.48 30	and 24,which is a cedar post 4 ins.square showing 2½ ft. above ground,marked and witnessed as described by the sur-

Chains	
	veyor general.
	Set a sandstone 14x10x6 ins.10 ins.in the ground for closing cor.of secs. 18 and 19,marked 3 grooves on S;3 grooves on N and C C on E faces,and raise a mound of stone 2 ft. base 1½ ft.high E of cor.
	N.Merkley's house bears N.82°15'W.6.72 chs.dist.
	Land mountainous and level.
	Soil 1st.and 3d.rate,black loam and rocky.
	Timber,scattering cedars on 57.50 chs.
	Mountainous land on 69.50 chs.
	Undergrowth,dense willows on 10.78 chs.

	N.0° 4'W.bet.secs.17 and 18.
	Ascend in scattering cedars.over broken land.
27.50	Top of ridge spur 100 ft.above cor.projects SE. Descend.
38.50	Bottom of hollow 70 ft.below spur drains SE, Ascend.
40.00	Seta sandstone 24x14x8 ins.18 ins.in the ground for ¼ sec. cor.marked ¼ on W face, from which
	A cedar 8 ins.diam.bears N.85°00'E.25 lks.dist.marked ¼ S 17 B T.
	A cedar 12 ins.diam.bears N.8°00'W. 33 lks.dist.marked ¼ S 18 B T.
60.00	Enter flat,bears NW and SE;leave cedars.
72.00	Road bears NW and SE.
80.00	Set a sandstone 18x10x4 ins.12 ins.in the ground for cor. of secs.7,8,17,and 18,marked 4 notches on S;5 notches on E edge;dig pits 18x18x12 ins.in each sec.5½ ft.dist.and raise a mound of earth 4 ft.base 2 ft.high W of cor.
	Land broken.
	Soil 2d.and 3d.rate,rocky.
	Timber,scattering cedars on S 60 chs.
	Undergrowth,dense sage brush on N 20 chs.
	Mountainous land on 60 chs.

	S.89°57'E. on a random line bet.secs. 8 and 17.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect N and S line at cor.of secs.8,9,16,and 17.
	Thence I run
	N.89°57'W.on a true line bet.secs. 8 and 17. Ascend. Over rolling land in sage brush.
17.00	Top of clay ridge spur 20 ft.above cor. projects SW.
	Descend.
23.50	Bottom of hollow 20 ft.below spur drains SW. Ascend.
24.00	Now across small sage flat;then descend.
30.50	Spring creek 25 lks.wide 8 ft.deep (dry) drains S 20° W.
40.00	Set a sandstone 16x10x4 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
42.70	Road to Vernal bears N and S.
80.00	The cor.of secs. 7,8,17,and 18.
	Land rolling.
	Soil 2d.and 3d.rate,sandy and rocky.
	No timber.
	Undergrowth,sage brush on 80.chs.

	Knowing that I will not strike the cor.of secs.7,and 18 on W bdy.of Tp.within limits
	I run
	West on a true line bet.secs.7 and 18.
	Over sage brush plain.
29.00	Road to Vernal bears N.75°W.and S.75°E.
40.00	Set a limestone 14x12x4 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
80.75	Enter dense willow brush,bearsN and S.
81.90 1-78 / 0-12	Intersect W bdy.of Tp.4.68 chs.N.0°24'W.of cor.of secs.12 and 13,which is a sandstone 4x10x6 ins.above ground,marked and witnessed as described by the surveyor general.
	Set a sandstone 14x6x4 ins.10 ins.in the ground for closing cor.of secs.7 and 18,marked 4 grooves on S;2 grooves on N

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	C C on E face, from which
	A cottonwood 5 ins.diam.bears N.82°00'E.30 lks.dist.marked
	T 3 S.R 21 E.S 7 B T.
	A cottonwood 6 ins.diam.bears S.87°00'E. 21 lks.dist.marked
	T 3 S.R 21 E.S 18 B T.
	Land rolling.
	Soil2d.rate,sandy.
	Sage brush on E 81.90 chs.
	Undergrowth,dense willow on W 1.78 chs.
	Timber,a few scattering cottonwoods,on W 2 chs.
	The sky being overcast with clouds at mid day no observation for latitude could be made.
	(September,21st.1906.

	Sept.22:-At 7h.53m.,a.m.,l.m.t., I set off 40°34' on lat. arc;0°33'N on decl.arc and determine a meridian with the solar at the cor.of secs.7,8,17,and 18.
	Thence I run
	N 0° 4'W.bet.secs.7 and 8.
	Ascend gradually over sage plain.
17.00	Enter scattering cedars.
40.00	Set a limestone 16x12x4 ins.11 ins.in the ground for ¼ sec. cor.marked ¼ on W face, from which
	A cedar 4 ins.diam.bears S.38°45'E.86 lks.dist.marked ¼ S 8 B T.
	A cedar 4 ins.diam.bears N.24°15'W.37 lks.dist.marked ¼ S 7 B T.
41.50	Head of hollow draining SW.
68.00	Leave cedars.
80.00	Set a limestone 14x10x6 ins.10 ins.in the ground for cor. of secs.5,6,7,and 8,marked 5 notches on S;5 notches on E edge and raise a mound of stone 2 ft.base 1½ ft.high W of cor.
	Pits impracticable.
	Land rolling S slope.
	Soil 3d.rate,stony.

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	Timber,scattering cedars on N 51.00 chs.
	Some grass on N 22 chs.
	Mountainous land,on N 63.chs.

	S.89°57'E. on a random line bet.secs. 5 and 8. Over broken land.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.06	Intersect N and S line 5 lks.S of cor.of secs. 4,5,8,and 9.
	Thence I run
	N.89°59'W.on a true line bet.secs. 5 and 8.
	Descend.
5.00	Bottom of hollow 50 ft.below cor.drains SW. Ascend.
22.00	Road to Vernal on top of ridge spur 50 ft.above hollow projects SW;road bears SW and NE. Descend.
33.50	Bottom of gulch 100 ft.below road drains SW. Ascend.
39.50	Top of ridge spur 100 ft.above gulch projects SW. Descend.
40.03	Bottom of canyon 200 ft.below spur drains S.20° W.
	Set a limestone 18x10x8 ins.12 ins.in the ground for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on N face, from which
	A box elder 5 ins.diam.bears N.52°15'E.25 lks.dist.marked $\frac{1}{4}$ S 5 B T.
	A cedar 8 ins.diam.bears S.51°30'E. 30 lks.dist.marked $\frac{1}{4}$ S 8 B T.
43.50	S point of ridge spur 100 ft.above cor. Descend.
46.75	Bottom of stony gulch 50 ft.below point of spur,drains S.15° E. Ascend.
80.06	The cor.of secs.5,6,7,and 8.
	Land broken.
	Soil 3d.rate,stony.
	Timber,a few scattering cedars.
	Some grass for grazing.
	Mountainous land on 80.06 chs.

	Knowing that I will not strike the cor.of secs.6 and 7 on W bdy.of Tp.within limits
	I run

SUBDIVISION OF T 3 S.R 21 E.

Chains	
	West on a true line bet.secs. 6 and 7.
	Ascend gradually along SE slope.over mountainous land.
5.00	Enter scrub cedars.
30.00	Top of ridge spur 150 ft.above cor.projects SW. Descend.
40.00	Set a limestone 14x9x8 ins.10 ins.in the ground for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears N.49°00'W.19 lks.dist.marked ¼ S 6 B T.
	A cedar 8 ins.diam.bears S.42°00'W. 41 lks.dist.marked ¼ S 7 B T.
49.00	Bottom of canyon 200 ft.below spur drains SW. Ascend.
81.80	Intersect W bdy.of Tp.4.30 chs.N.0° 24'W.of cor.of secs.1, and 12,which is a sandstone 4x9x7 ins.above ground,marked and witnessed as described by the surveyor general.
	Set a limestone 18x10x4 ins.12 ins.in the ground,for closing cor.of secs. 6 and 7,marked 5 grooves on S;1 groove on N,and C C on E faces, from which
	A cedar 9 ins.diam.bears N.43°30'E. 40 lks.dist.marked T 3 S.R 21 E.S 6 B T.
	A cedar 12 ins.diam.bears S.35°45'E. 31 lks.dist.marked T 3 S.R 21 E.S 7 B T.
	Land mountainous.
	Soil 3d.rate,stony.
	Timber,scattering cedars on W.76.30 chs.
	Mountaionous land on 81.80 chs.

	September,22d.1906:I set off 0°28'Non the decl.arc;and,at 11h.,53m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat,arc,the reading 40°35',which agrees with other data.
	Thence I run
	N.0° 4'W. on a random line bet.secs.5 and 6.
40.00	Set temp.¼ sec.cor.
75.94	Intersect N bdy.of Tp.at closing cor.of secs. 5 and 6,heretofore described.
	Thence I run

SUBDIVISION OF T.3 S. R. W.

Chains	
	S.0°4'E. on a true line bet.secs. 5 and 6.
	Ascend over broken land.
11.45	Top of ridge spur 30 ft.above cor. projects SW. Descend.
15.90	Bottom of hollow 50 ft.below top of spur,drains SW. Ascend.
21.00	Top of ridge spur 30 ft.above bottom of hollow projects SW. Descend.
30.90	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
35.94	Set a limestone 14x12x5 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
40.90	Top of ridge 100 ft.above hollow bears SW and NE.
	Enter cedars.
75.94	The cor.of secs. 5,6,7 and 8.
	Land broken S slope.
	Soil,3d.rate;stony.
	Timber,scattering cedars on S 35,04 chs.
	Some grass on N 40.90 chs.
	Mountainous land on 75.94 chs.

(September,22d.1906.

GENERAL DESCRIPTION.

This township contains some of every variety of land, from mountainous to level;and the soil ranges from alluvial loam along the narrow bottom along Ashley creek,in the western part,to red sandy loam in the Steinaker Draw,and sandy and rocky soil,producing only scrubby cedars and a scanty supply of grass and sage brush in the more rolling portions.

The soil in the greater portion of this township is properly classed as stony,3d.rate.

Scrub cedar,found on the foot hills of the Uintah Mountains and the Red Mountain reef,is the predominating timber, while a fringe of cottonwoods is found along Ashley creek, which is for the most part lined with a dense growth of willow and tag alder brush.

SUBDIVISION OF T.3 S.,R.21 E.

Limestone,suitable for the manufacture of lime occurs in Sec.7;while beds of gypsum of some commercial value,with better transportation facilities,occur near the S bdy.of the Tp.in Sec.33.

Indications of coal,which is a fair grade of bituminous product,suitable for fuel and steam purposes,are found in the southeastern portion of the township.

The legal subdivisions properly classed as coal lands are: W½ NW¼ and W½ SW¼ of Sec.24;NW¼ and SW¼ of Sec.25; SE¼ and SE¼ of NE¼ of Sec. 35;and NW¼ of NW¼ of Sec.36.

The only perennial stream flowing through this Tp.is the Ashley creek,the waters of which are practically all used, except at flood time,for irrigating the farm lands lying contiguous to its course below this Tp. The State of Utah is considering the advisability of constructing a storage reservoir,near the mouth of the Steinacker Draw,in Sec.35, for impounding the flood waters of the Ashley creek.

Spring creek,a small tributary of Ashley creek,has a very small flow of water throughout a portion of its course, which however,is strongly impregnated with alkali.

There are three settlers in this Tp., Joseph Steinacker in Sec.35,has a frame house,1 story,28x28 ft.,with log stable corrals fields fenced with wire and about 50 acres in cultivation. Frank Steinacker, in Sec. 34 has a field fe. and about 40 acres in cultivation. George Bills in Sec. 19 has a log house,16x24 ft., a barn constructed in a cavern under a sandstone ledge,about 100 acres fenced and 50 acres under cultivation. The value of Joseph Steinacker's improvements is about $1200., the value of Frank Steinacker's improvements is about $900. The value of George Bills' improvements is about $1000.

Secs. 1 to 4;9 to 12; and 13 to 16 inclusive are occupied by the Red Mountain reef,which is very broken and unfit for tillage or grazing,and has been omitted from the subdivisional survey of this township.

The sections omitted from this survey are entirely cov-

ered with sandstone precipices,bare sandstone surfaces, occurring as ridges and slopes,or precipitous red clay slopes covered for the most part with scattering scrub cedar,with some scattering clumps of long leaf pine near the summit,of no commercial value,except possibly for fuel.

There are no indications of gold,silver,copper,lead,cinnabar,asphaltum or other hydro-carbons or salines in this Tp.

Edgar F. Nannstow

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 Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivisional lines of T. 3 S., R. 21 E., S. L. B. & M., Utah, showing the respective capacities in which they acted:

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in surveying all those parts or portions of the subdivisional lines of T. 3 S., R. 21 E., of the Salt Lake meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 9th day of August, 1907, ~~189~~

SEAL

Ward E. Park Jr

Notary Public.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of 19th day of December, 1899, I have well, faithfully, and truly, in my o proper person, and in strict conformity with the instructions furnished by the United States Surve General for Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivisional lines of To ship 3 South, Range 21 East,

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

Edgar F. Harmston
United States Deputy Surveyo

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th. day of August, 1907.

SEAL

Jas. A. Hacking
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 1908.

The foregoing field notes of the survey of subdivisional lines in Township No. 3 South, Range No. 21 East of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston under his contract No. 235, dated December 19th, 1899, having bee critically examined, and the necessary corrections and explanations made, the said field notes, and th surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor Genera

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 Genera

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R.J.B.

BOOK A-339

FIELD NOTES

OF THE Re SURVEY OF THE

R.J.B.

Ashley Guide Meridian

bet. Rgs. 22 & 23 East

through T. 4 S.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyors

Under Contract No. 235, dated December 19th, 1899

Survey commenced April 29th, 1900

Survey completed May 2nd, 1900

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Sheet 4. 29-90 ✓

Corr 1-49-90 ✓

5 7990

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox	Chainman
John Holmes	"
Isaac M Cobb	"
John A Lesombe	"
Josiah Simsus	Monumentman
Albert Kone	Axeman
Craig Harrington	Flagman

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BOOK A-339

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Isaac M. Cobb, Charley Fox, and John A. Lisonbee & John Hobbs 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 the Ashley Guide Meridian bet. Rgs. 22 & 23 E. through Tps. 2, 3 & 4 S. S.L. Base & Mer.

Isaac M. Cobb, Chainman.
Charley Fox, Chainman.
John A. Lisonbee, Chainman.
John Hobbs, Chainman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. T. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1903

~~WE,~~ I Josiah Simmons ~~and~~ do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey the Ashley Guide Meridian bet. Rgs. 22 & 23 E. through Tps. 2, 3 & 4 S. Salt Lake Base & Meridian

Josiah Simmons, Moundman.
, Moundman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. T. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1903

~~WE,~~ I Albert Kane ~~and~~ do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Ashley Guide Meridian bet. Rgs. 22 & 23 E. through Tps. 2, 3 & 4 S. Salt Lake Base & Meridian

Albert Kane, Axman.
, Axman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. T. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1903

I, Craig Harmston, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Ashley Guide Meridian bet. Rgs. 22 & 23 E. through Tps. 2, 3 & 4 S. Salt Lake Base & Meridian

Craig Harmston, Flagman.

Subscribed and sworn to before me this 1st day of April, 1900

SEAL

O. T. Gable
Notary Public
MY COMMISSION EXPIRES FEB 23, 1903

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Survey of the Ashley Guide Meridian on E. Bdy of T. 4 S. R. 22 E. S.L. Mer.

Survey commenced April 24th 1900

Note: Conforming to "Special Instructions" accompanying this contract I search diligently for the cor. to Tps. 3 & 4 S. Rgs. 22 & 23 E. on the Ashley Guide Meridian in order to make it the starting point for the survey of the N. Bdy of T. 4 S. R. 22 E. and failing to find the Tp. cor. I continue my search for any cor. on said line on the E. Bdy of T. 4 S. R. 22 E. – The first cor. on said line that I found in place and was able to identify with reasonable certainty by reliable witnesses upon the ground was the 1/4 sec. cor bet. secs 13 & 18. From said 1/4 sec. cor. I run S. on a bearing line trying to retrace the Ashley Guide Meridian on the E. Bdy of T. 4 S. R. 22 E. continuing untill I reach the cor to Tps. 4 & 5 S. Rgs. 22 & 23 E. Salt Lake Meridian. I find no part of the line retraced in alinement The measurements are short and some corners partly obliterated or missing. No subdivision lines close on the said Ashley Guide Meridian in Tps 4 S. Rgs 22 & 23 E except on sec 36 in T. 4 S. R. 22 E. conforming to instructions in the Manual I therefore decide to retrace and re-establish the line between secs. 31 & 36 as established, and resurvey the balance.

Beginning at the established cor to Tps. 4 & 5 S. Rgs 22 & 23 E. which is a cobblestone 16 x 8 x 6 ins. set and marked as described by the Surveyor General. The pits and mound of earth are obliterated and I replace them by raising a mound of stone 3 ft. base 2 ft. high S. of cor. Pits impracticable. Settlers T. Evans and J. Burton living in sec. 31 T. 4 S. R. 23 E identified said Tp. cor as being in its original place.

Re-Survey Ashley Guide Meridian

April 30th 1900. At the established cor. to Tps 4 & 5 S. Rgs 22 & 23 E. in approximate Latitude 40° 25' N. Longitude 109° 24' W. I examine the adjustments of the transit carefully and then test the Solar apparatus by comparing the results of observations on the sun made during A.M. and P.M. hours with a true Meridian determined by observations on Polaris proceeding as follows:

At 4 h. P.M. L.m.t. I set of 40° 25' N. on the lat. arc. and 14° 52' N. on the decl. arc. and determine with the solar a true meridian and mark a point thereof by pencil mark No 1 on a stake set firmly in the ground 5 chs N. of cor.

At 10 h. 46 m P.M L.m.t. I observe Polaris in accordance with instructions in the Manual at Lower Culmination and mark the direction thus determined by making pencil mark No 2 on the stake set in the afternoon on which the true Meridian falls 0.25 ins. West of the mark determined by the Solar

May 1st 1900 At 7 h. 30 m. a.m. L.m.t I set of 40° 25' N. on the lat arc. and 15° 05' N. on the decl. arc and mark a point in the true Meridian determined by the Solar by pencil mark No 3 on the stake already set. 5 chs. N. of my Station – This mark falls 0.3 ins West of the true Meridian established by the Polaris observation.

The Solar apparatus by P.M and A.M. observations defines positions for true Meridian respectively 0.13" East and 0.16' West of the true Meridian established by the Polaris observation, therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true Meridian at 7:30 A.M is N. 15° 59' W. which reduced by the table on Page 100 of the Manual gives

on East Boundary of T. 4 S. R. 22 E.

chs the mean magnetic declination 15°55' East.
From the Tp. cor. I run North on a
blank line bet. secs 31 & 36 – At 40.00 chs I
find no trace of old cor. At 79.80 chs the
cor. to secs. 25. 30. 31 & 36 bears W. 47 lks dist
Therefore I return to cor to Ts 4 & 5 S. – Rgs.
22 & 23 E. and thence run

N. 0° 20' W. on reversing line
bet. secs. 31 & 36

2.00 Hollow 50 ft deep drains NE.
5.50 Ridge spur 75 ft. high bears NE.
8.00 Hollow 75 feet deep drains E.
15.50 Descend from hills
23.50 Enter Brush Creek Flat bears NW. & SE.
"Upper Burns Bench Canal" 12 lks. wide 2½ ft.
deep runs SE.
29.00 Road bears NW. and SE.
29.25 Enter field
33.50 Small corral on line
Difference between measurements of 39.90 chs
by two sets of chainmen is 12 lks. Position of
middle point
By 1st set 39.96 chs.
By 2nd set 39.84 chs the mean of which is
39.90 Set a sandstone 12 x 8 x 6 ins. 8 ins. in the
ground for 1/4 sec. cor. marked 1/4 on W
face dug pits 18 x 18 x 12 ins. N. & S. of stone
3 ft dist and raised a mound of earth
3½ ft. base 1½ ft. high W. of cor. E.H. Evans house
bears S.33°15' E. 13 chs. and S. Burton house bears S.67°30' E. 37.50 chs.
55.00 leave field, enter dense undergrowth
57.00 Brush Creek 30 lks. wide 2 ft. deep runs E.
59.00 Leave undergrowth.
Difference bet. measurements of 79.80 chs by two
sets of chainmen is 18 lks. position of middle point
By 1st set 79.89 chs.
By 2nd set 79.71 chs. the mean of which is
79.80 Intersect the established cor. to secs 25. 30
31 & 36 which is a sandstone 20 x 16 x 8
ins. set, marked and witnessed as

27.50
12.30

chs

described by the Surveyor General
Land broken hills and flat
Soil 3rd and 2nd rate, rocky and sandy loam
Shadscale and sagebrush on hills
Lucerne in field - Willow and Alderbrush in Creek bottom
Mountainous or dense undergrowth on 27.50 chs.

North on re-survey line
bet. secs. 25 & 30

11.60 Leave Brush Creek Flat at month of Wash drains S.W. - Ascend hills
17.50 Cliff 30 ft high bears E. & W.
39.50 Gulch 20 ft. deep drains S.W.
Difference bet. measurements of 40.00 chs by two sets of chainmen 20 lbs. - Position of middle point
By 1st set = 40.10 chs
By 2nd set = 39.90 chs the mean of which is
40.00 No trace of old 1/4 sec. cor. Set a limestone 30 x 10 x 10 ins. 22 ins. in the ground for 1/4 sec cor marked 1/4 on W. face and raised a stone mound 2 1/2 ft. base 2 ft. high W. of cor. Pits impracticable
46.00 Ridge 100 ft. high bears N.E. & S.W.
55.50 Gulch 100 ft. deep drains S.W.
Difference bet. measurements of 80.00 chs by two sets of chainmen 28 lbs. - Position of middle point
By 1st set 80.14 chs
By 2nd set 79.86 chs the mean of which is
80.00 The original cor to secs 19. 24. 25 & 30 (which I destroy bears S. 76° W. 1.70 chs. dist - Set a sandstone 22 x 12 x 4 ins 16 ins in the ground for cor. to secs 19. 24. 25 & 30 marked 4 notches on N. and 2 on S. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable

on East Boundary of T. 4 S. R. 22 E.

chs | Land broken ridges and flat
Soil 3rd and 2nd rate, rocky and sandy w.
Sagebrush and Shadscale
Mountainous on N. 68.40 chs.

May 1st 1900. At this cor. I set off 15° 7' N. on the decl. arc and at 12 h. l. m. t observe the sun on the Meridian the resulting lat. is 40° 27' N.

North on a resurvey line
bet. secs 19 & 24.

19.00 Gulch 50 ft. deep drains W. – Ascend steep S.W. slope of Reef
34.50 Guide Peak on Summit of reef 150 ft. high
Descend N.W. slope of reef
Difference bet. measurements of 40 chs by two sets of chainmen 14 lks – Position of middle point
By 1st set = 40.07 chs
By 2nd set = 39.93 chs. the mean of which is
40.00 The original 1/4 sec. cor bet secs 19 & 24 (which I destroy) bears S. 70° W. 1.94 chs dist. Set a sandstone 30 x 20 x 2 1/2 ins. 22 ins. the ground for 1/4 sec. cor marked 1/4 on W. face and raised a stone mound 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable
67.50 Hollow 20 ft. deep drains W.
74.30 Hollow 30 ft deep drains W.
Difference bet measurements of 80.00 chs. by two sets of chainmen 22 lks. – Position of middle point
By 1st set = 80.11 chs.
By 2nd set = 79.89 chs. the mean of which is
80.00 The original cor to secs. 13. 18. 19 & 24 (which I destroy) bears S. 42° W. 4.35 chs. dist. – Set a sandstone 18 x 12 x 6 ins 12 ins in the ground for cor. to secs. 13. 18. 19 & 24 marked 3 notches on S. and N. edges and raised a mound of stone 3 ft. base

chs

2 ft. high W. of cor. - Pits impracticable
Land broken ridges and hollows
Soil 3rd rate, rocky.
Sagebrush and a few scattering cedars
Mountainous on 80.00 chs.

North on a re-survey line
bet. secs 13 & 18

6.25 Hollow 30 ft. deep drains N. 70° W.
9.50. Road bears N.E. & S.W.
14.00 Hollow 30 ft. deep drains W.
Difference bet. measurements of 40.00 chs by two sets of chainmen 12 lks. - Position of middle point
By 1st set = 40.06 chs
By 2nd set = 39.94 chs - the mean of which is
40.00 The original 1/4 sec. cor. bet. secs. 13 & 18 (which I destroy) bears S. 40° W. 5.18 chs - In hollow 30 ft deep drains S.W. set a sandstone 20 x 9 x 8 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. - Pits impracticable -
45.50 Hollow 20 ft. deep drains W.
59.50 Hollow 15 ft. deep drains S.W.
Difference of measurement of 80.00 chs. by two sets of chainmen 16 lks. - Position of middle point
By 1st set = 80.08 chs
By 2nd set = 79.92 chs the mean of which is
80.00 The original cor to secs 7.12.13 & 18 (which I destroy) bears S. 44° W. 5.40 chs dist. - Set a sandstone 20 x 15 x 6 ins. 15 ins. in the ground for cor. to secs 7.12.13 & 18, marked 4 notches on S. and 2 on N. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. - Pits impracticable
Land broken ridges and hollows
Soil 4th rate - rocky
Shadscale and a few scattering cedars
Mountainous on 80.00 chs

on East Boundary of T. 4 S. R. 22 E.

chains	
	May 2nd 1900. At 7 h. - a.m. - l.m.t. - I set off 40° 29' N. on the lat. arc. and 15° 23' N. on the decl. arc. and determine a true Meridian by the Solar at the cor. to secs 7. 12. 13 & 18
	Thence I run
	North on a re-survey line bet. secs. 7 & 12
3.00	Hollow 20 ft deep drains W
6.00	Ridge spur 25 ft. high bear W.
7.00	Enter rocky bench
38.00	Leave bench - descend
39.00	Enter Brush Creek bottom 60 ft deep drains S.W.
39.50	Brush Creek 30 lks. wide 2 ft. deep runs S.W.
	Enter W. edge of James Henrys field; owner lives in Vernal.
	Difference bet. measurements of two sets of chainmen measuring 40.00 chs. 8 lks. - Position of middle point
	By 1st set = 40.04 chs.
	By 2nd set = 39.96 chs. the mean of which is
40.00	No trace of original 1/4 sec. cor bet sec. 7 & 12 - Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, dug pits 18 x 18 x 12 ins N. & S of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
	J. Henry's log barn bears N. 45° 15' E. 19.50 chs. house bears N 6 W. 6.50 chs.
48.00	Leave field and Creek bottom - Ascend
60.00	Ridge spur 100 ft. high bears E.
64.00	Re-enter Brush Creek bottom drains S.
72.00	Enter dense undergrowth of willow and alder
	Difference bet. measurements of 80.00 chs. by two sets chainmen 12 chs - Position of middle point
	By 1st set 80.06 chs. - By 2nd set 79.94 chs. the mean of which is
80.00	The original cor. to secs 1. 6. 7 & 12 (which I destroy)
	S. 44° W. 7.40 chs. Set a sandstone 15 x 15 x 4 ins. 10 ins. in the ground for cor. to secs 1. 6. 7 & 1
66.50 / 13.50	5 notches on S. and 1 on N. edges and a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable.
	Land rocky bench and ridges and Creek
	Soil 3rd and 1st rate. rocky and sandy loam
	Sagebrush, cultivated field - Dense undergrowth on 8.00 chs
	Mountainous or dense undergrowth on 66.50 chs

chs

North on a re-survey line
bet secs. 1 & 6

In dense willow & alder brush

14.50 Brush Creek 30 lks wide 2 ft. deep runs S.E. heads N. and to avoid crek I offset as follows:

West 5.00 chs.
North 9.50 chs.
East 5.00 chs to

24.00 a point on the N.W. bank of Brush Creek which heads NE. and runs S. - Leave brush.

Difference bet. two sets of chainmen in measuring 40.00 chs. 10 lks. - Position of middle point
By 1st set = 40.05 chs.
By 2nd set = 39.95 chs. - the mean of which is

40.00 No trace of the original 1/4 sec. cor bet. secs. 1 & 6.
Set a sandstone 16 x 9 x 9 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on on W. face, and raised a mound of stone 2 ft. base 1½ ft. high W. of Cor. - Lots impracticable - This cor. is placed in small wood on line

42.00 Road bears E & W.
46.50 J. P. Jensens Cabin bears E. 1.12 chs.
69.75 Wash 20 lks. wide 4 feet deep course E.
75.50 Enter cultivated field -
79.50 Leave cultivated field

Difference bet. two sets of chainmen in measuring 80.00 chs. 16 lks. - Position of middle point
By 1st set 80.08 chs. - By 2nd set 79.92 chs the mean of which is:

80.00 Searched again but found no trace of the original cor. to Tps. 3 & 4 S. Rgs. 22 & 23 E. - Set a Sandstone 30 x 10 x 4 ins. 22 ins. in the ground for cor. to Tps. 3 & 4 S. - Rgs. 22 & 23 E. marked 3 S. on NE., 23 E. on S.E., 4 S. on S.W. 22 E. on NW. faces and 6 notches on each edge; dug pits 24 x 24 x 12 ins. on each line NE. and W. 4 ft and S. of stone 8 ft dist and raised a mound of earth 5 ft. base 2½ ft. high S. of cor.

Land level Creek bottom
Soil 1st rate, sandy loam
Cultivated crops, greasewood Willow and alder brush.
Dense undergrowth on 24.50 chs.

in East Boundary of T. 4 S. R. 22 E.

May 2nd 1900

For general description see end of traverse subdivision field notes of T. 4 S. R. 22 E. Salt Lake Meridian.

Edgar F. Hamilton
U. S. Dep. Surveyor

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LIST OF NAMES.

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

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

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

.....

sowing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

For final affidavits see book S. Tp 2 S. R 23 E

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 .....

..... meridian, ... of ..... E., 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.*

For final affidavits see book S. Tp 2 S. R 23 E

.....

ubscribed and sworn to before me this .....

day of ....., 189 .

SEAL

6–151

FINAL [illegible]

I. ....., United States Deputy Surveyor solemnly swear that, in pursuance of a contract received fro[illegible] 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[illegible] General for ....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of .....

.....

.....

.....

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

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

For final affidavit see book S. [illegible]

.....

United States Deputy Survey[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 October 25 1902, 189

The foregoing field notes of the re survey of the Ashley Guide Meridian through Township 4 South between Ranges 22 & 23 East of the Salt Lake Base & Meridian Utah

executed by Adolphe Jesson and Edgar F Harmston under ~~his~~ their contract No. 235, dated December 19, 1899, having be[illegible] critically examined, and the necessary corrections and explanations made, the said field notes, and t[illegible] re surveys they describe, are hereby approved.

Edward H Anderson

United States Surveyor Gen[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 office.

.....

United States Surveyor Gen[illegible]

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4—679.

BOOK A-339

FIELD NOTES

OF THE SURVEY OF THE

North Boundary

of

T. 4 S. – R. 22 E.

Of the Salt Lake Base & Meridian,

State of Utah

AS SURVEYED BY

Adolph Jessen and

Edgar F. Harmston, United States Deputy Surveyor,

Under ~~his~~ then Contract No. 235, dated December 19th, 1899

Survey commenced May 2nd, 1900

Survey completed May 4th, 1900

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Lines 604.08 ✓

Corners 497 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox Chainman

John Holmes "

Josiah Simmes Moundman

Albert Kone Axeman

Craig Harmston Flagman

For preliminary affidavits see book "A" Tp 3 S R 21 E

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BOOK A-339

INDEX DIAGRAM.

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

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, ... and

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

.....

....., *Chainman*

....., *Chainman*

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

SEAL

WE, ... and

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

....., *Flagman*

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

SEAL

North Boundary T 4 S R. 22 E

chs.

Survey commenced May 2nd 1900 with instrument designated in Book A.

At the cor. to Tps. 3 & 4 S. Rgs 22 & 23 E. Salt Lake Meridian re-established in this survey on May 2nd 1900 I set off 15°25' N. on the decl. arc and at 12 h. m. l. mt. observe the sun on the Meridian the resulting lat. is 40°36' N. Thence I run

West on random line along the N. Bdy of T 4 S R. 22 E. setting temp 1/4 sec. and sec. cor's at intervals of 40.00 chs and at 484.08 chs. I intersect the E. Bdy of T 3 S R. 21 E. 4.97 chs N. of the cor to Tps. 3 & 4 S. Rgs 21 & 22 E. previously described As the falling exceeds the limit I destroy the 6 notches on E. edge of said Tp. cor and mark C.C. 21 E. on W., 3 S. on N. and 4 S. on S faces for closing cor. to Tps. 3 & 4 S. Rg: 21 E. and raised a mound of stone 3 ft. base 2 ft. high W. of cor. Pits impracticable. At point of intersection I set a sandstone 18 x 10 x 8 ins. 12 ins in the ground for closing cor. to Tps. 3 & 4 S R. 22 E. marked C.C 22 E. on E. 4 S. on S. 3 S. on N. and 6 grooves on E. S. and N. faces and raised a mound of stone 3 ft. base 2 ft. high E. of cor. — Pits impracticable

May 3rd 1900 — At this last cor I set off 15°43' N. on the decl. arc and at 12 h. m. l. mt. observe the sun on the Meridian the resulting lat. is 40°36' N.
Thence establishing my random as a true line I run

East on true line bet. secs. 6 & 31

3.60	Wash 10 lks. wide 2 ft. deep drains S
12.00	Wash 10 lks. wide 3 ft. deep drains S.
36.00	N. end of ridge which bears S. 20 W.
38.50	Gulley drains N. E.
41.00	Ridge spur 50 ft high bears NE
44.08	Set a sandstone 16 x 12 x 3 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
55.60	Hollow 40 ft. deep drains S

N. Bdy, T. 4 S. R. 22 E

Chs.	
70.00	Enter low rolling land
81.50	Leave same
84.05	Set a limestone 14 x 10 x 14 ins 9 ins in the ground for cor. to secs. 5. 6 31 x 32 marked 5 notches on E. and 1 on W. edges and mound a mound of stone 2 ft. base 1½ ft. high W of cor. Pits impracticable
	Land broken hills
	Soil 2nd rate gravelly or rocky.
	No timber
	Mountainous on 84.05 chs

East on true line bet secs 5 & 32

0.25	Wash 40 lks wide 8 ft. deep drains S
38.00	Gully drains S. W
40.00	Set a limestone 16 x 12 x 14 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and mound a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable
40.25	Hollow 40 ft. deep drains S. W.
52.50	Hollow 75 ft deep drains S. 20 W.
57.00	Ridge, spur 75 ft. high bears S.
80.00	In hollow drains S. W set a limestone 14 x 12 x 8 ins. 9 ins in the ground for cor. to secs. 4, 5. 32 & 33 marked 4 notches on E. and 2 on W. edges and mound a mound of stone 2 ft. base 1½ ft high W. of cor.
	Pits impracticable
	Land broken S. slope
	Soil 2nd rate, rocky.
	No timber
	Mountainous on 80.00 chs

East on true line bet. secs 4 & 33

9.50	Ridge spur 50 ft. high bears S. 20 W.
19.00	Wash 20 lks wide 2 ft. deep drains S. 15 W.

N. Bdy. of T. 4 S. R. 22 E.

chs.	
40.00	Set a sandstone 14 x 12 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
41.00	Hollow 30 ft. deep drains S.W.
69.00	Hollow 25 ft deep drains S.
75.50	Ridge spur 30 ft. high bears S.
80.00	Set a sandstone 18 x 9 x 5 ins. 12 ins. in the ground for cor to secs. 3. 4. 33 & 34 marked 3 notches on E. and W. edges and raised a mound of stone 2 ft base 1 1/2 ft. high W. of cor. Pits impracticable

Land broken S. slope
Soil 2nd rate, rocky.
No timber
Mountainous on 80.00 chs

May 4th 1900 – At 7 h. a.m. – l.m.t. I set off 40°30' N. on the lat arc and 15°58' N. on the decl. arc and determine at true Meridian at the cor to secs. 3. 4. 33 & 34 on N. Bdy of Tp

Thence I run

Exit on true line bet. secs 3 & 34

3.00	Gulch drains S.
24.00	Ridge 75 ft high bears N. & S.
26.00	Gulch 30 ft. deep drains S.
28.00	Enter bench bears. N & S.
38.00	Summit of bench 75 ft high
40.00	Set a sandstone 15 x 12 x 4 ins 10 ins in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft high N. of cor. Pits impracticable
46.00	Leave bench
48.00	Gully drains S
70.50	Ridge 75 ft. high bears N.W. and S.E.
80.00	Set a limestone 18 x 16 x 6 ins. 12 ins. in the grou for cor. to secs 2. 3. 34 & 35 marked 4 notches on W. and 2 on E. edges and raised a mound of

chs. Stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land mountainous
Soil 2nd rate, rocky.
No timber
Mountainous on 8.00 chs

East on true line bet. secs. 2 & 35

15.00 Hollow 50 ft. deep drains S.E.
30.00 Flat ridge 40 ft high bears NW. & S.E.
33.50 Wash 2 ft deep 15 lks. wide drains S.E.
Enter flat hollow drains S.E.
40.00 Set a sandstone 22 x 18 x 4 ins. 17 ins in the ground for ¼ sec. cor. marked ¼ on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
50.00 Leave hollow – Ascend
60.00 Flattopped ridge 75 ft. high bears S.E. & NW.
65.50 Hollow 50 ft. deep drains N. (thence E.)
72.50 Ridge spur 60 ft high bears NE.
80.00 Set a limestone 14 x 12 x 10 ins. 9 ins. in the ground for cor. to secs. 12. 35 & 36 marked 5 notches on W. and 1 on E. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land mountainous
Soil 2nd rate, rocky.
No timber
Mountainous on 8.00 chs

East on true line bet. secs. 1 & 36

0.25 Hollow 25 ft. deep drains NE.
14.50 Top of clay hill 100 ft. high
23.00 Head of hollow drains NE.

North Bdy. of T. 4 S. R. 22 E.

chs.	
25.00	Ridge open 25 ft. high bears N.E.
40.00	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 and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
40.50	Hollow 20 ft. deep drains N.E.
48.50	Top of clay hill 75 ft. high
56.50	Enter hollow 25 ft. deep drains S.E.
63.50	Leave said hollow
65.00	Road bears N.E. & S.W. in small hollow drains S.
67.50	Road bears S. 20° E. and N. 20° W. in small hollow drains S.
69.50	Ridge 40 ft. high bears S. 20° E. and N. 20° W.
72.00	Enter Branch Creek bottom and dense undergrowth of willow & alder
73.25	Branch Creek 2 ft. deep 30 lks wide runs S.E.
75.00	Branch Creek 2 ft. deep 30 lks wide runs N.E.
80.00	Intersect the cor. to Tps. 3 & 4 S. - Rgs. 22 & 23 East on the Ashley Guide Meridian as established in this survey

Land Mountainous or Creek bottoms
Soil 2nd and 1st rate, rocky or alluvial
Dense undergrowth on E. 8.00 chs
Mountainous or dense undergrowth on 80.00 chs.

May 4th 1900

For general description see end of field notes of additional subdivision of T. 4 S. R. 22 E. Salt Lake Meridian

Edgar F. Harmston
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 .....

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

..... *Chainman.*

..... *Chainman.*

..... *Moundman.*

..... *Moundman.*

..... *Axman.*

..... *Axman.*

..... *Flagman.*

.....

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

day of ....., 189

SEAL

.....

.....

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

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

Final affidavit on back W. Tp 25 R 22 E

.....
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, October 25 1902 189

The foregoing field notes of the survey of The Sixth Boundary of Township 4 South Range 22 East of the Salt Lake Base and Meridian Utah

executed by Adolphe Jesson and Edgar F. Harriston under ~~his~~ their contract No. 236, dated December 19, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-339

FIELD NOTES

OF THE SURVEY ~~RE-~~ AND RETRACEMENT OF ~~THE~~

PART OF THE

EAST BOUNDARY OF

T.4 S.,R.21 E.,

Of the Salt Lake Base and *Meridian,*

State of Utah.

AS SURVEYED BY

Edgar F.Harmston, *United States Deputy Surveyor,*

Under his Contract No. 235, *dated* December,19th., *189* 9

Survey commenced September,24th.1906., *189*

Survey completed September,25th.1906., *189*

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Retr Cour } 1-79-37 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey,	Chainman.
Craig Harmston,	Chainman.
Mellette Harmston,	Moundman.
Bert Shisler,	Axman.
Bradner Bailey,	Flagman.

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BOOK A-339

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WE, Charles L. Bailey and Craig Harmston

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the re- and ~~survey~~ part of the E. bdy of Tp 4 S. R. 21 E. S.L.M. Utah.

Charles L. Bailey, Chainman

Craig Harmston, Chainman

Subscribed and sworn to before me this 10th day of August, 1906.

SEAL

Herbert Izzack
Notary Public

~~WE~~, I Mellette Harmston ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re- and re- survey part of the E. bdy of Tp. 4 S. R. 21 E. S.L.M. Utah.

Mellette Harmston, Moundman

, Moundman

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzack
Notary Public

~~WE~~, I Bert Shisler ~~and~~

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the re- and re- survey part of the E. bdy of Tp. 4 S. R. 21 E. S.L.M. Utah.

Bert Shisler, Axman

, Axman

Subscribed and sworn to before me this 10th day of August, 1906.

SEAL

Herbert Izzack
Notary Public
Vernal Utah

I, Bradner Bailey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the re- and retracement survey of a part of the E. bdy of Tp 4 S. R. 21 E. S.L.M. Utah.

Bradner Bailey, Flagman

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzack
Notary Public

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RESURVEY OF A PART OF THE EAST BDY. OF T.4 S.R.21 E.

Chains.

Survey commenced September, 24th. 1906, 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.

Preliminary to beginning survey of additional subdivisions in T.4 S., R.22 E., I deem it advisable to test that portion of the East boundary of T.4 S., R.21 E., upon which said additional subdivisions in T.4 S., R.22 E. must close.

From the closing cor. of Tps. 3 and 4 S., R.21 E., on W. bdy. of sec. 6, Tp. 4 S., R.22 E. I run South on a blank line, on the E. bdy. of Sec. 1, T.4 S., R.21 E.

At 39.51 chs. I find the $\frac{1}{4}$ sec. cor. 33 lks. E of my line.

At 79.51 chs. the cor. of secs. 1, 6, 7, and 12, is 67 lks. E. of my line.

Continuing my blank line from said cor. S. on E. bdy. of Sec. 12,

At 39.63 I find the $\frac{1}{4}$ sec. cor. 34 lks. E of my line.

At 79.86 chs. the cor. of secs. 7, 12, 13, and 18, which is a cobblestone 10x12x8 ins. above ground, marked and witnessed as described by the surveyor general, bears East 67 lks. dist.

South of this cor. the land is subdivided on each side of this bdy. line, Secs. 1 and 12 in Tp. 4 S., R.21 E., are also subdivided, but In order to change the established cor. of secs. 1, 6, 7, and 12, to a cor. for secs. 1 and 12, only (which according to my survey of the N. bdy. of T.4 S., R.22 E. it must be) I re-survey the E. bdy. of secs. 1 and 12, in T. 4 S., R.21 E.

September, 25th. 1906: At 6h. 52m. a.m. l.m.t., I set off 40° 29' on the lat. arc; 0° 35' S. on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 12, 13, and 18, on E. bdy. of T.4 S., R.21 E.

Thence I run

Chains	
	N.0°29'W. on a resurvey line, on E. bdy. of sec. 12.
1.00	Branch of Ashley creek 25 lks. wide, 8 ft. deep, flows SE.
	Enter dense undergrowth of willow, alder and cottonwood.
15.00	Leave creek bottom and dense undergrowth.
30.00	Irrigation ditch 3 lks. wide, 1 ft. deep, runs SE.
	Enter cultivated field.
30.50	Wm. Jackson's house bears S.80° E. 2.50 chs. dist.
40.23	Intersect the ¼ sec. cor., which is a sandstone 5x8x6 ins. above ground, marked and witnessed as described by the surveyor general,
55.00	Leave field and Ashley valley; enter broken clay ridges.
55.25	Rock Point canal 15 lks. wide, 2 ft. deep, runs SE.
74.50	Wash 10 lks. wide 2 ft. deep, drains SW. Ascend.
79.86	On summit of ridge spur, 50 ft. high projects W.
	Intersect the original cor. of secs. 1, 6, 7, and 12, which is a quartzite 9x11x8 ins. above ground, marked and witnessed as described by the surveyor general.
	I destroy all marks on same pertaining to secs. 6 and 7.
	Land valley and broken mountains.
	Soil 1st. and 3d. rate; alluvial loam and clay.
	Dense undergrowth of willow, alder and cottonwood in creek bottom, on 14.00 chs.
	Mountainous land on 24.86 chs.

	N.0° 29'W. on a re-survey line on E. bdy. of sec. 1. Descend.
12.50	Bottom of hollow 20 ft. below cor. drains W. Ascend.
14.00	Top of ridge spur, 25 ft. above hollow, projects W. Descend.
18.00	Bottom of hollow 20 ft. below spur, drains W. Ascend.
23.00	Top of ridge spur, 40 ft. above hollow projects W. Descend.
25.00	Enter broad broken hollow, drains SW. Now across same.
40.00	Intersect the original ¼ sec. cor. which is a quartzite 5x12x6 ins. above ground, marked and witnessed as described by the surveyor general.
63.50	Wash 20 lks. wide, 12 ft. deep, drains SW.
79.52	The closing cor. of Tps. 3 and 4 S., R.21 E., heretofore

Chains

described.

Land broken hollow and mountains.

Soil 2d.and 3d.rate;clay.

No timber.

Mountainous land on S 25 chs.

For general description see end of field notes of additional subdivisions of T.4 S.,R.22 E.

Edgar F. Namston

U.S.Deputy Surveyor.

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LIST OF NAMES.

A list of the names of the individuals employed by Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and ...ing the lines and corners described in the foregoing field notes of the re survey and retracement of a part of the ...dy of Tp 4 S. R. 21 E. S.M. Utah.

...ng the respective capacities in which they acted:

Charles L. Bailey, Chainman.
Craig Harmston, Chainman.
Mellette Harmston, Moundman.
, Moundman.
Bert Shisler, Axman.
, Axman.
Bradner Bailey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in re surveying and retracing all ...parts or portions of the E bdy of Tp 4 S. R. 21 E.

of the Salt Lake ... meridian, State of Utah, which are represented ...t foregoing field notes as having been re surveyed and retraced by him and under his direction; and that said re survey ...seen in all respects, to the best of our knowledge and belief, well and faithfully re surveyed and retraced and the ...y monuments established, according to the instructions furnished by the United States Surveyor ...al for Utah

Charles L. Bailey, Chainman.
Craig Harmston, Chainman.
Mellette Harmston, Moundman.
, Moundman.
Bert Shisler, Axman.
, Axman.
Bradner Bailey, Flagman.

...ribed and sworn to before me this 10th ...y of December, 1907

SEAL

Herbert Mack
Notary Public

FINAL OATH OF UNITED STATES SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of 19th day of December 1899, 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, re-surveyed and retraced all those parts or portions of the E. bdy of T. 4 S. R. 3 E.

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

Edgar F. Harmston
United States Deputy Surveyor.

Subscribed by said Edgar F. Harmston and sworn to before me this 10 day of December, 1907.

SEAL

Jas. A. Hacking
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 11, 19

The foregoing field notes of the survey of resurvey and retracement of a part of the east boundary of Township No.4 South, Range No.31 East of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston under his contract No. 235, dated December 12, 1899, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and resurveys and retracements surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

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BOOK A-339

FIELD NOTES

OF THE ~~SURVEY~~ RETRACEMENT OF ~~THE~~ CERTAIN

SUBDIVISION LINES

IN

T.4 S., R.22 E.

Of the Salt Lake Base and *Meridian,*

State of Utah,

AS SURVEYED BY

Edgar F.Harmston, *United States Deputy Surveyor,*

der his Contract No. 235, *dated* December,19th.1899., *190*

acement
rvey commenced September,25th.1906., *190*

racement
rvey completed September,26th.1906., *190*

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Retrac 8-79-58
Gw

NAMES AND DUTIES OF ASSISTANTS.

Charles L. Bailey,	Chainman,
Craig Harmston,	Chainman,
Mellette Harmston,	Moundman,
Bert Shisler,	Axman,
Bradner Bailey,	Flagman

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R ... Y ... A ...

We, Charles L. Bailey and Craig Harmston, 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 retracement of certain subdivision lines in T.4 S., R.22 E. S.L.B.& M., Utah.

Charles L Bailey, Chainman
Craig Harmston, Chainman

Subscribed and sworn to before me this 10th. day of August, 1906.

SEAL

Herbert Zack
Notary Public

~~We~~ I, Mellette Harmston, and ..... do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the retracement certain subdivision lines in T.4 S., R.22 E., S.L.B.& M., Utah.

Mellette Harmston, Moundman
....., Moundman

Subscribed and sworn to before me this 10th day of August, 1906.

SEAL

Herbert Zack
Notary Public

~~We~~ I, Bert Shisler, and ..... do solemnly swear that I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the retracement certain subdivision lines in T.4 S., R.22 E., S.L.B.& M., Utah.

Bert Shisler, Axman
....., Axman

Subscribed and sworn to before me this 10th. day of August, 1906.

SEAL

Herbert Zack
Notary Public
Vernal Utah

I, Bradner Bailey, 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 retracement of certain subdivision lines in T.4 S., R.22 E., S.L.B.& M., Utah.

Bradner Bailey, Flagman

Subscribed and sworn to before me this 10th. day of August, 1906.

SEAL

Herbert Zack
Notary Public

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RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains September,25th.1906.

Prior to beginning the additional subdivision of T.4 S.,R. 22 E. Salt Lake Base and Meridian,I deem it necessary to retrace those lines of the established subdivisional survey upon which I must close the additional subdivision lines. Therefore,from the cor.of secs.25,30,31,and 36,on the E. bdy.of T.4 S.,R.22 E. (which is a part of the Ashley Guide Meridian),heretofore described in these field notes,.

I run

S.89°56'W.on a blank line for the purpose of retracing the line bet.secs. 25 and 36.

At 40.00 chs. the ¼ sec.cor.,which is a sandstone 4x10x6 ins.above ground,marked ¼ on N face,with mound of stone 2 ft.base,1½ ft.high N of cor.,bears South 55 lks.dist.

At 79.63 chs. the original cor.of secs. 25,26,35,and 36, bears South 1.12 chs.dist.

From said sec.cor.

I run

West on a blank line for the purpose of retracing the line bet.secs.26 and 35.

At 39.90 chs. the original ¼ sec.cor.bears N.56 lks.dist.

At 79.25 chs. the original cor.of secs. 26,27,34,and 35 bears N 1.11 chs. dist., This cor.is a limestone 7x12x6 ins.above ground,marked and witnessed as described by the surveyor general.

In order to properly re-establish this line,which is a part of the South bdy.of my additional subdivision survey, I re-survey it,returning on a true line with courses calculated from my fallings.

September,25th.1906: At 8h.52m.,a.m.,l.m.t, at the cor.of secs.26,27,34,and 35,T.4 S.,R.22 E.,I set off 40°26' on the lat.arc;0° 39' S on decl.arc,and determine a true meridian with the solar.

Thence I run

S. 89°12'E.on a retracement line bet.secs. 26 and 35.

16.00 Road bears NW and SE.

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains

36.00 Enter higher bench bears N and S.

39.76 Intersect the original ¼ sec.cor.bet.secs.26 and 35,which i a quartzite 4x10x4 ins.above ground,marked and witnessed as described by the surveyor general.

44.50 Bottom of hollow 30 ft.deep,drains SW. Ascend.

67.00 Leave higher bench,bears N and S;descend.

69.00 Bottom of gulch 50 ft.below bench,drains NE. Ascend.

72.50 Top of ridge spur,50 ft.above gulch,projects NE. Descend.

79.26 Intersect the original cor.of secs. 25;26,35,and 36.,which is a quartzite 4x10x4 ins.above ground,marked and witnessed as described by the surveyor general.

Land rolling and broken benches.

Soil 2d.rate,gravelly.

No timber.

Scrubby sage brush.

Thence I run

N.89°03'E.on a retracement line bet.secs. 25 and 36.

2.50 Wash 10 lks.wide,3 ft.deep,drains NE. Ascend.

11.00 Top of round clay hill 50 ft.above wash,on line. Descend.

13.50 Bottom of gulch,30 ft.below top of hill,drains NE. Ascend.

18.00 Top of ridge spur,75 ft.above gulch,projects NE. Descend.

32.50 Leave hills;enter Brush creek flat.

33.50 Road bears NW and SE.

39.63 Intersect the ¼ sec.cor.bet.secs. 25 and 36,which is a sandstone 4x10x6 ins.above ground,marked ¼ on N face,with mound of stone 2 ft.base,1½ ft.high N of cor.

49.00 Road bears NW and SE.

50.00 Upper Burns' Bench canal 18 lks.wide,2 ft.deep,flows SE.

59.00 Enter dense undergrowth of willow and alder in Brush creek bottom.

59.50 Brush creek 40 lks.wide,18 ins.deep,banks 5 ft.high,sandy bottom,rapid current. flows SE.

60.25 Leave Brush creek bottom and undergrowth.

Chains

79.63 The cor.of secs. 25,30,31,and 36.on E bdy.of Tp.which is identical with Ashley Guide Meridian.

Land,broken hills and creek bottom.

Soil 3d.and 1st.rate;rocky and sandy loam.

No timber.

Dense undergrowth on 1.25 chs.

Mountainous land on 32.50 chs.

September,25th.1906: At 2h.52m.,p.m., l.m.t., I set off 40°26'on lat.arc;0°45' S.on decl.arc,and determine a tru meridian with the solar at the cor.of secs. 26,27,34,and 35. Thence in order to determine the true bearings and distances of the miles comprising the E bdy.of the surveyed portion of this Tp., I run North on a blank line re-tracing the E. bdy.of sec.27.

At 39.85 chs. the ¼ sec.cor.bet.secs.26 and 27 bears W75 lks. dist.

At 79.59 chs. the original cor.of secs. 22,23,26,and 27,bears W. 88 lks.dist.

From this cor.I run

North on a blank line,retracing the E bdy.of sec.22.

At 40.00 chs. the original ¼ sec.cor.bet.secs. 22 and 23, bears W.30 lks.dist.

At 79.79 chs. the original cor.of secs. 14,15,22,and 23, bears W. 55 lks.dist.

Thence I run

North on a blank line,retracing the E bdy.of sec. 15.

At 40.00 chs.the ¼ sec.cor.bet.secs.14 and 15 bears W 50 lks.dist.

At 79.32 chs.the original cor.of secs. 10,11,14,and 15 bears W.89 lks.dist.

This retracement shows the line to be deficient in alinement and measurement,while some cors.are defective.

I therefore return to my starting point for the purpose of

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains	
	retracing same:
	September,26th.1906: At 11h.52m.,a.m.,l.m.t., at the cor. secs. 26,27,34,and 35,I set off 1°05' S.on the decl.arc, and observe the sun on the meridian,and obtain on the lat. arc the reading 40°26' which agrees with other data. Thence,calculating my course from the fallings above stat. I run
	N.0°49'W.on retracement line on E bdy.sec.27. Ascend.
12.00	Top of ridge spur,20 ft.above cor.projects SW. Descend.
39.85	Intersect the ¼ sec.cor.bet.secs. 26 and 27,which is a sandstone 4x10x6 ins.in the ground,marked ¼ on W face,with mound of stone 2 ft.base,1½ ft.high W of cor.
	Thence I run
	N.0° 27'W.on retracement line on N.half of said mile,
65.60	Road bears NW and SE.
79.59	Intersect the original cor.of secs. 22,23,26,and 27,which is a sandstone 4x10x4 ins.above ground,marked and witnessed as described by the surveyor general.
	Land rolling,mountainous bench.
	Soil 2d.rate,gravelly and rocky.
	No timber.
	White sage.
	Mountainous land on 79.59 chs.

	N. 0° 26'W.on retracement line on E bdy.of sec.22.
5.00	Road bears NW and SE.
40.00	Intersect the original ¼ sec.cor.bet.secs. 22 and 23, which is a limestone 4x12x9 ins.above ground,marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°22'W.on retracement line on N half of said mile. Ascend.
72.00	Enter summit of semicircular hill 75 ft.above ¼ sec.cor. bears NE and NW. Do
78.00	Leave summit. Descend.

Chains.	
79.79	Intersect the original cor.of secs.14,15,22,and 23,which is a quartzite 4x12x9 ins.above ground,marked and witnessed as described by the surveyor general.
	Land mountainous.
	Soil 2d.rate,gravelly or rocky.
	No timber.
	Mountainous land on 79.79 chs.

	N.0° 43'W.on retracement line on E bdy.of Sec.15.
1.00	Enter rolling bench.
36.50	Leave same;descend.
39.50	Enter rolling flat.
40.00	Intersect the $\frac{1}{4}$ sec.cor.bet.secs. 14 and 15,which is a sandstone 5x12x9 ins. above ground,marked $\frac{1}{4}$ on W face,with mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high W of cor.
	Thence I run
	N.0° 34'W.on retracement line on E half of said line
61.00	Leave flat;ascend S slope.
64.50	Enter rolling bench.
79.32	Intersect the original cor.of secs. 10,11,14,and 15,which is a limestone 4x10x5 ins.above ground,marked as described by the surveyor general. The pits and mound of earth having become obliterated,I raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor.
	Land rolling mountains and flat.
	Soil 2d.rate,gravelly and rocky.
	No timber.
	Sage brush.
	Mountainous on 57.chs.

(September,25th.1906.

The established N bdys.of secs. 15,16,17,and 18,should be the base line of my additional subdivision of the four westerly tiers of secs.in this Tp. and it is necessary to ascertain their true bearings and distances.

Therefore,On September,26th.1906: at 3h.05m.,p.m.,l.m.t.,

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains	
	I set off 40° 29' on the lat.arc;1°08'S on decl.arc,and determine a meridian with the solar at the cor.of secs. 10,11,14,and 15.
	Thence I run
	West on a blank line,retracing the line bet.secs. 10 and 1
	At 39.90 chs. the original ¼ sec.cor.bears S. 39 lks.dist.
	At 79.42 chs. the cor.of secs. 9,10,15,and 16 bears S. 66 lks.dist.
	From this cor.I run
	West on a blank line,retracing the line bet.secs. 9 and 16
	At 40.00 chs. the original ¼ sec.cor.bears S 45 lks.dist.
	At 80.36 chs. the original cor.of secs. 8,9,16,and 17, bears S 84 lks.dist.
	From this cor.I run
	West on a blank line,retracing the line bet.secs. 8 and 17
	At 39.90 chs. the original ¼ sec.cor.bet.secs. 8 and 17 bears S 60 lks.dist.
	At 79.82 chs.the original cor.of secs. 7,8,17,and 18,bears S.1.02 chs.dist.
	From this cor.I run
	West on a blank line,retracing the line bet.secs. 7 and 18
	At 39.57 chs. the original ¼ sec.cor.bet.secs.7 and 18, bears S. 36 lks.dist.
	At 42.88 chs. I intersect W bdy.of Tp.70 lks.N of cor.of s secs. 7,12,13,and 18,heretofore described.
	This retacement shows the line to be deficient in alinemen
	Calculating my courses from the fallings above stated, I run
	N.89°33'E.on a retracement line bet.secs. 7 and 18.
0.25	Branch of Ashley creek 30 lks.wide,2 ft.deep,flows S.
	Enter dense undergrowth of willow and alder brush.
6.00	Leave dense undergrowth and creek bottom.
10.50	James Beddo's house bears North 7.50 chs.dist.
42.82	Intersect the original ¼ sec.cor.bet.secs. 7 and 18,which is a sandstone 5x12x4 ins.above ground,marked and witnes as described by the surveyor general.

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains	
	The pits having become obliterated,I dig pits 18x18x12 ins.E and W of stone 3 ft.dist.and raise a mound of eart $3\frac{1}{2}$ ft.base,$1\frac{1}{2}$ ft.high N of cor.
	J.H.Bryant's house bears N 12° E. 76 lks.dist.
	Thence I run N.89°29'E.on retracement of E half of said mile.
44.00	Leave Ashley creek flat,bears N and S. Ascend.
44.40	Rock Point canal 10 lks.wide,2 ft.deep,flows S.
52.00	Top of ridge spur,75 ft.above flat,projects S. Descend.
59.00	Wash 40 lks.wide,10 ft.deep,drains S.
65.50	Road bears NE and SW,in bottom of hollow 75 ft.below flat. drains SW. Ascend.
75.50	Enter bench 50 ft.above hollow,bears N and S.
82.39	Intersect the original cor.of secs.7,8,17,and 18,which is a quartzite 5x12x5 ins. above ground,marked as described by the surveyor general;the pits and mound of earth are obliterated,and I raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	Land broken ridges and flat.
	Soil 3d.and 1st.rate,rocky or alluvial loam.
	White sage on hills;dense undergrowth of willows and alder in creek bottom.
	Mountainous land or land covered with dense undergrowth on 45.chs.

	N.89°24'E.on a retracement line bet.secs. 8 and 17.
9.00	Leave bench;descend.
15.50	Bottom of hollow 75 ft.below bench,drains SW. Ascend.
39.92	Intersect the original $\frac{1}{4}$ sec.cor.bet.secs. 8 and 17,which is a quartzite 5x10x6 ins.above ground,marked and witnessed as described by the surveyor general.
	N,89°08'E. on a retracement of E half of said mile.
41.00	Wash 20 lks.wide,3 ft.deep,drains SW.
46.50	Road bears NW and SE.
56.50	Road bearsNW and SE.
65.50	Wash 10 lks.wide,3 ft.deep,drains S.

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S.,R.22 E.

Chains	
79.82	Intersect the original cor.of secs. 8,9,16,and 17,which is a limestone 5x8x6 ins.above ground,marked as described by the surveyor general,the pits and mound of earth are obliterated,and I raise a mound of stone 2 ft.base,1½ ft. high W of cor. Pits impracticable.
	Land rolling.
	Soil 2d.rate,sandy.
	No timber.
	White sage.

	N.89°27'E. on a retracement line bet.secs. 9 and 16.
13.00	Top of ridge spur,25 ft.above cor. projects SW. Descend.
16.50	Wash 10 lks.wide,3 ft.deep,drains SW. Ascend.
22.00	Top of ridge 50 ft.above wash bears N and S.
28.00	Road bears NE and SW.
35.50	Road bears NE and SW.
40.36	Intersect the original ¼ sec.cor.bet.secs. 9 and 16,which is a quartzite 5x8x6 ins. above ground,marked as described by the surveyor general;the pits and mound of earth are obliterated and I raise a mound of stone 2 ft.base,1½ ft. high N of cor. Pits impracticable.
	N.89°21'E. on a retracement of E.half of said mile.
67.50	Top of ridge spur,30 ft.above cor.projects NE. Descend.
76.00	Wash 6 lks.wide,2 ft.deep,drains SE.
80.36	Intersect the original cor.of secs. 9,10,15,and 16,which is a limestone 5x12x12 ins.above ground,marked and witnessed as described by the surveyor general.
	Land rolling.
	Soil 2d.rate,sandy.
	No timber.
	White sage.

	N.89°37'E.on a retracement line bet.secs. 10 and 15.
7.70	Wash 15 lks.wide 5 ft.deep,drains S. Ascend.
15.20	Top of ridge 30 ft.above wash bears N and S. Descend.

RETRACEMENT OF CERTAIN SUBDIVISIONAL LINES IN T.4 S. R.22 E.

Chains

18.20 Bottom of hollow 15 ft.below ridge,drains S. Ascend.

21.70 Top of ridge 15 ft.above hollow,bears N and S. Descend.

39.52 Intersect the original $\frac{1}{4}$ sec.cor.bet.secs. 10 and 15,which is a quartzite 5x10x8 ins.above ground,marked and witnessed as described by the surveyor general.

N.89° 26'E. on E half of same mile.

51.70 Top of lone clay hill 100 ft high bears N.15°W and S.15° E. Descend.

54.20 Wash 10 lks wide,2 ft.deep,drains S. Ascend.

66.20 Enter bench bears N and S.

71.20 Road bears NE and SW.

77.20 Bottom of hollow,in bench,40 ft.below top of bench,drains S.15° W.

79.42 Intersect the cor.of secs. 10,11,14,and 15,heretofore described.

Land broken.

Soil 2d.rate,sandy.

No timber.

White sage.

Mountainous on 79.42 chs.

(September,26th,1906.

For general description see end of field notes of the additional subdivisions of this Tp.

Edgar F. Hamston

U.S.Deputy Surveyor.

B O U N D A R I E S

OF THE SURVEYED PART OF T.4 S.,R.22 E.,S.L.B.& M.,

Latitudes,Departures and Closing Errors.

Line Designated	True Bearing	Distance Chains	Latitudes, North Chs.	Latitudes, South Chs.	Departures. East Chs.	Departures. West Chs.
Ashley G.M.	North	400.00	400.00			
North Bdy.	West	484.08				484.08
Part of W. Bdy.	South	4.97		4.97		
	S.0°29'E.	159.37		159.37	1.35	
	N.89°33'E.	42.82	.34		42.82	
	N.89°29'E.	39.57	.36		39.57	
	N.89°24'E.	39.92	.42		39.92	
Part of S. Bdy.	N.89°08'E.	39.90	.60		39.90	
	N.89°27'E.	40.36	.39		40.36	
	N.89°21'E.	40.00	.45		40.00	
	N.89°37'E.	39.52	.27		39.52	
	N.89°26'E.	39.90	.39		39.90	
	S.0° 34'E.	39.32		39.32	.39	
	S.0°43'E.	40.00		40.00	.50	
Part of W. Bdy.	S.0°22'E.	39.79		39.79	.25	
	S.0°26'E.	40.00		40.00	.30	
	S.0°27'E.	39.74		39.74	.31	
	S.0°49'E.	39.85		39.85	.57	
Part of S. Bdy.	N.89°12'E.	79.26		1.12	79.26	
	N.89°08'E.	79.63	1.20		79.63	
Convergency	West					.35
	Totals,- - - -		404.43	404.16	484.55	484.39
			404.16		484.39	
	Errors:- in latitude,		.26	in departure,	.16	

F E A S ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F.Harmston, ..., United States Deputy Surveyor, to assist in running, measuring, and ...ing the lines and corners described in the foregoing field notes of the ~~xxxxx~~ retracement of certain sub-...ision lines in T.4 S.,R.22 E.,S.L.B.& M., Utah, ...ing the respective capacities in which they acted:

...rles L.Bailey, ..., *Chainman.*

...aig Harmston, ..., *Chainman.*

...llette Harmston, ..., *Moundman.*

....., *Moundman.*

... Shisler, ..., *Axman.*

....., *Axman.*

...dner Bailey, ..., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F.Harmston, ..., United States Deputy Surveyor, in ~~xxxxxxx~~ retracing all ...e parts or portions of ~~the~~ certain subdivision lines in T.4 S.,R.22 E. ..... of the Salt Lake ...ase and ..... meridian, State of Utah, which are represented ...e foregoing field notes as having been ~~surveyed~~ retraced by him and under his direction; and that said ~~survey~~ retracement ...xxxxxxx been in all respects, to the best of our knowledge and belief, well and faithfully ~~surveyed~~ retraced, and the ...er monuments established, according to the instructions furnished by the United States Surveyor ...eral for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Harmston, *Moundman.*

....., *Moundman.*

Bert Shisler, *Axman.*

....., *Axman.*

Bradner Bailey, *Flagman.*

...scribed and sworn to before me this 10th. day of December, 1907.

Herbert Mack
Notary Public

SEAL

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FINAL OATH TO FIELD SURVEYS

I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date 19th day of December 1899, 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ retraced all those parts or portions of certain subdivision lines in T. 4 S. R. 22 E.

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

Edgar F. Harmston
United States Deputy Surveyor

Subscribed by said Edgar F. Harmston, and sworn to before me this 10 day of December, 1907

SEAL

Jas. A. Hacking
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 1

The foregoing field notes of the ~~xxxxxx~~ retracement of certain subdivision lines in Township No. 4 South, Range No. 22 East of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston
under his contract No. 235, dated December 19th, 1899, 190 , having critically examined, and the necessary corrections and explanations made, the said field notes, and ~~surveys~~ retracements they describe, are hereby approved.

Thos. Dell
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-339

H.

FIELD NOTES

m.73.

OF THE SURVEY OF THE

SUBDIVISION LINES

OF

TOWNSHIP 4 SOUTH

RANGE 22 EAST

Of the SALT LAKE BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

Edgar F. Harrington, *United States Deputy Surveyor,*

nder his Contract No. 235, *dated* December 19th 1899, *190*

urvey commenced September 24th, *190* 6.

urvey completed " 28, *190* 6.

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10-59-38

8 35 67

11 67

NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey,	Chainman,
Craig Harmston,	"
Mellette Harmston,	Moundman,
Bert Shisler,	Axeman,
Bradner Bailey,	Flagman.

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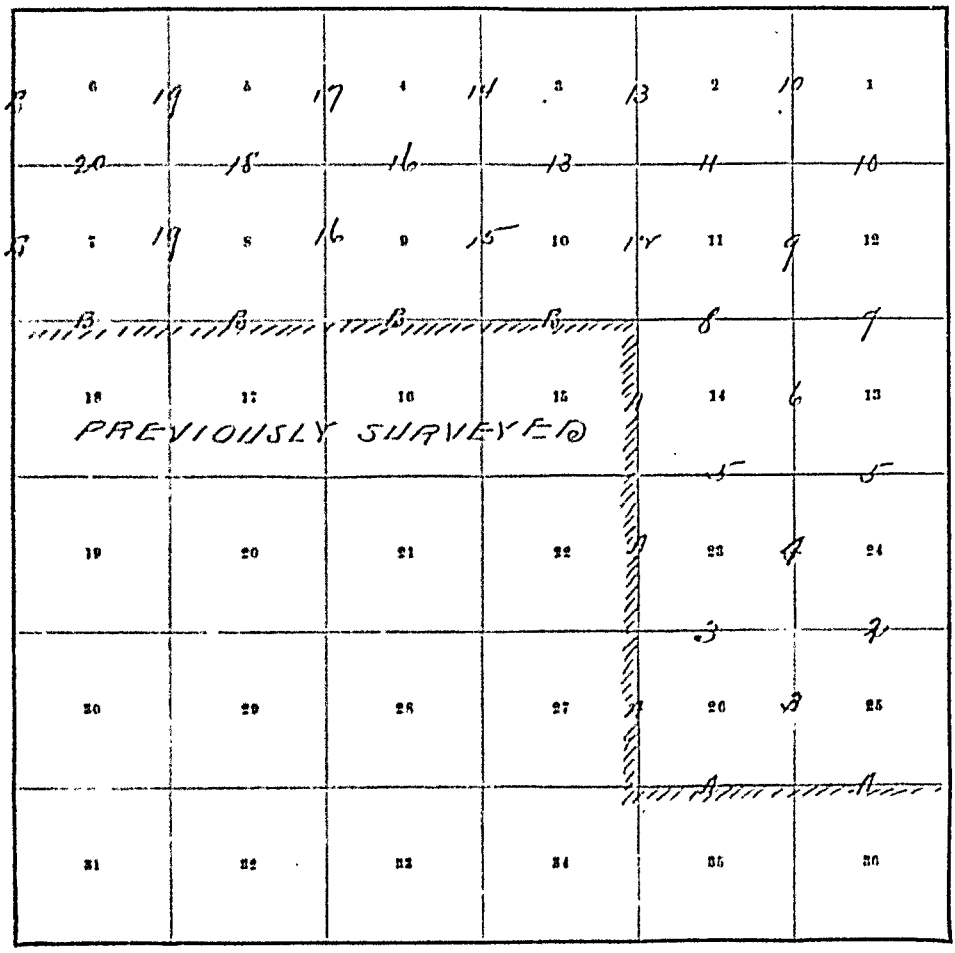
BOOK A-339

INDEX DIAGRAM.

Township 4-S, *Range* 22E



Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We Charles L. Bailey and Craig Harmston,
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
the subdivision lines of T.4 S., R.22 E., S.L.B.& M., Utah.

Charles L. Bailey, Chainm
Craig Harmston, Chainm

Subscribed and sworn to before me this 10th.
day of August, 1906.

Ward E. Pack Jr
Notary Public

SEAL

I, Mellette Harmston
do solemnly swear that I will well and truly perform the duties of moundman in the establishme
of corners, according to the instructions given me, to the best of my skill and ability, in the survey
the subdivision lines of T.4 S., R.22 E., S.L.B.& M., Utah.

Mellette Harmston, Moundma
, Moundma

Subscribed and sworn to before me this 10th.
day of August, 1906.

Ward E. Pack Jr
Notary Public

SEAL

I, Bert Shisler,
do solemnly swear that I will well and truly perform the duties of axman in the establishment of corn
and other duties, according to instructions given me, to the best of my skill and ability, in the survey
the subdivision lines of T.4 S., R.22 E., S.L.B.& M., Utah.

Bert Shisler, Axma
, Axma

Subscribed and sworn to before me this 10th.
day of August, 1906.

Ward E. Pack Jr
Notary Public

SEAL

I, Bradner Bailey, 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
survey of the subdivision lines of T.4 S., R.22 E., S.L.B.& M., Utah.

Bradner Bailey, Flagma

Subscribed and sworn to before me this 10th.
day of August, 1906.

Ward E. Pack Jr
Notary Public

SEAL

SUBDIVISION OF T.4 S. R.22 E.

Chains

Survey commenced September,24th.1906,and executed with a W.& L.E.Gurley light mountain transit with solar attachme t. The horizontal limb is provided with two double vernier placed opposite each other,reading to single minutes of a.c, which is also the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the instrument and find it in adjustment both as to levels and collimation;then to test the solar apparatus,by comparing its indications,resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris,I proceed as follows:

At the cor.of secs.24 and 25,T.4 S. R.22 E.,on the Ashl y Guide meridian,latitude 40°27'N.,longitude 109°24'W.,I set off 40°27' on the lat.arc and 0°22' S.on decl.arc,and,at 3h.52m.,p.m.,l.m.t.,determine with the solar,a meridian and mark a point thereof,on a peg firmly driven in the ground 5 chs. N.of the cor.

At 7h.24m.,p.m.,by my watch,which is 5m. fast of l.m.t., I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N. of my station. (September,24th.1906.

September,25th: At 6h.25m.,a.m.,l.m.t.,I lay off the azimuth of Polaris,1°34' to the west,and mark the meridian thus determined,by driving a tack in the stake set Sept.24th. on which the meridian falls 0.2 ins.east of the mark determined by the solar.

At 7h.52m.,a.m.,l.m.t.,I set off 40°27' on the lat.arc; 0°27'S. on the decl.arc,and mark a point in the meridian determined with the solar,by a tack driven in the stake already set 5 chs.N.of my station;this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m.,and a.m.,observations,defines

Chains	
	positions for meridians,respectively 0'16" west and 0'21 east of the meridian established by the Polaris observati therefore,I conclude that the adjustments of the instru are satisfactory.
	The magnetic bearing of the true meridian,at 8h.10m.,a.m is N.15°45' W.,the angle thus determined gives the magnet declination 15°45'E.

	The north bdy.of secs.35 and 36 being out of limit,
	From the cor.of secs.24 and 25,heretofore described,
	I run
	West on a sectional correction line bet.secs.24 and 25.
	Descend.
35.00	Bottom of gulch 75 ft.below cor.drains SW. Ascend.
38.50	Top of shale hill 100 ft.above gulch,bears N and S.
	Descend.
40.00	Set a sandstone 18x12x4 ins.12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
48.50	Enter underbrush.
49.75	Brush creek,25 lks.wide,18 ins.deep,shale bottom,current rapid,flows S.
55.00	Leave brush;enter cultivated ground.
57.00	Leave cultivated ground.
61.50	Leave flat;ascend to bench.
62.50	Enter bench 50 ft.above flat,bears N and S.
67.00	Road bears N and S.
68.00	Precipice 15 ft.high bears N and S. Ascend.
74.50	Wash 5 lks.wide,3 ft.deep,drains NE.
80.00	Set a sandstone 15x15x7 ins.10 ins.in the ground,for cor. of secs.23,24,25,and 26,marked 2 notches on S;1 notch on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land broken and level.
	Soil 1st.rate,loam;and 3d.rate stony.

Chains	
	No timber.
	Undergrowth, shadscale and willow brush.
	Alfalfa on 2 chs.
	Mountainous land on 68.25 chs.

	S.0°1'E. on a random line. bet. secs. 25 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.21	Intersect E and W line 36 lks. W of cor. of secs. 25, 26, 35, and 36, which is a quartzite 6x10x4 ins. above ground, marked and witnessed as described by the surveyor general.
	Thence I run
	N.0°16'W on a true line bet. secs. 25 and 26. Descend.
5.00	Wash 7 lks. wide, 3 ft. deep, drains E.
7.50	Road bears E and W. Ascend.
15.00	W slope of clay hill 100 ft. above wash. Descend.
31.00	Wash 7 lks. wide, 2 ft. deep, drains SE.
	Ascend precipitous S slope.
41.21	Set a sandstone 12x10x7 ins. 8 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W of cor. Pits impracticable.
45.25	Top of reef overlying coal vein, bears NE and SW. Descend.
49.25	Outcrop of coal vein, 4 ft. thick, bears NE and SW.
57.75	Road bears E and W.
60.75	Head of gulch drains E. Ascend.
62.50	Top of ridge spur, 50 ft. above head of gulch, projects E. Descend.
65.25	Bottom of hollow 25 ft. below spur, drains N.75° E.
81.21	The cor. of secs. 23, 24, 25, and 26.
	Land broken.
	Soil 3d. rate; rocky.
	No timber.
	Undergrowth, scrubby sage brush.
	Mountainous land on 81.21 chs.

	West on a sectional correction line bet. secs. 23 and 26.

SUBDIVISION OF T.4 S.,R.22 E.

Chains	
	Ascend.
12.50	Enter high bench,bears N and S. 75 ft.above cor.
36.00	Leave same;descend.
40.00	Set a sandstone 12x10x6 ins.8 ins.in the ground,for ¼ sec cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
40.10	Bottom of hollow 100 ft.below bench,drains SW. Ascend.
45.50	Top of ridge spur,30 ft.above hollow,projects SW. Descend
53.50	Bottom of hollow 50 ft.below spur,drains SE. Ascend.
57.00	Top of ridge spur,30 ft.above hollow,projects NE. Descend.
62.00	Bottom of hollow 15 ft.below spur,drains NE. Ascend.
68.50	Top of ridge 50 ft.above hollow,bears N and S. Descend.
74.00	Road bears NW and S.
79.82	Intersect N and S line 51 lks.N of cor.of secs.22,23,26, and 27,which is a sandstone 8x10x4 ins.above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a quartzite 12x10x4 ins.8 ins.in the ground,for closing cor.of secs.23 and 26,marked C C on E 2 grooves on S and 2 grooves on E face,dug pits 24x18x12 ins.crosswise on each line N and S,3 ft.and E 7 ft.dist. and raise a mound of earth 4 ft.base 2 ft.high E of cor. I destroy all marks on old cor.pertaining to secs. 23 and 26.
	Land broken bench.
	Soil 1st.and 2d.rate,rocky and sandy.
	No timber.
	White sage.
	Broken land on 79.82 chs.

	Sept.25th.1906: I set off 0°42'S on the decl.arc,and,at 11h 55m.,a.m., by my watch,which is 3 m. fast of l.m.t.,observe the sun on the meridian,and obtain the reading on the lat.arc,40°27',which agrees with other data.
	Thence I run
	N.0°1'W.bet.secs.23 and 24. Descend.
11.00	Bottom of hollow 25 ft.below cor.drains E. Ascend.

Chains	
17.00	Top of ridge spur 30 ft.above hollow,projects E. Descend.
26.00	Bottom of hollow 30 ft.below spur,drains E. Ascend.
30.00	Top of ridge spur,20 ft.above hollow,projects E. Descend.
40.00	Set a sandstone 15x10x7 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Wilson Boan's house bears N.76° 30'E. 22.50 chs. dist.
45.00	Bottom of hollow,20 ft.below spur,drains SE. Ascend.
50.00	Top of clay knoll 30 ft.above bottom of hollow. Descend.
	Now along broken E slope of ridge.
80.00	Set a sandstone 15x8x7 ins.10 ins.in the ground,for cor.of secs.13,14,23,and 24,marked 3 notches on S;1 notch on E edge and raise a mound of stone 2 ft.base 1½ ft.high W of cor.
	Pits impracticable.
	Land broken.
	Soil 2d,rate;mostly clay.
	No timber.
	White sage.
	Mountainous land on 80.chs.

	East on a random line bet.secs. 13 and 24.
40.00	Set temp.¼ sec.cor.
80.00	Intersect E bdy.of Tp.at cor.of secs.13,18,19,and 24. heretofore described. Thence I run
	West on a true line bet.secs.13 and 24. Ascend.
0.15	Top of reef,10 ft.above cor. Descend.
17.00	Road bears NE and SW. Head of hollow drains SW. Ascend.
17.50	Top of reef,75 ft.above road,bears NE and SW. Descend.
27.00	Bottom of hollow,50 ft.below reef,drains SW. Ascend.
35.00	Top of reef,75 ft.above hollow,bears NE and SW. Descend.
40.00	Set a sandstone 14x12x8 ins.9 ins.in the ground for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
45.00	Descend precipitous slope; bears N. and S.
52.00	Enter brush;bears N and S.
55.00	Brush Creek,50 lks.wide,2 ft.deep,shale bottom,current slow,

Chains	
	flows SE.
56.00	Leave brush.
59.00	Road at foot of bench,bears N and S. Ascend.
63.00	Enter bench,50 ft.above flat,bears N and S.
80.00	The cor.of secs. 13,14,23,and 24.
	Land broken.
	Soil 3d.rate;rocky.
	No timber.
	Undergrowth,sage brush;and willows;on 4 chs.
	Mountainous land on 80.chs.

	Knowing that I will not close on the cor.of secs.14,15, 22,and 23,within limits
	I run
	West on a true line bet.secs. 14 and 23.
	Ascend precipitous E slope.
4.00	Enter bench 100 ft.above cor.bears N and S.
14.50	Leave same;descend precipitous W slope.
22.00	Enter flat,bears N and S.
26.00	Wash 8.lks.wide,2 ft.deep,drains SW.
31.50	Wash 30 lks.wide,5 ft.deep,drains S.15° W.
40.00	Set a limestone 12x10x6 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
55.00	Top of clay ridge 30 ft.above flat,bears S.15°W,and N.15° E
60.00	Bottom of hollow 20 ft.below ridge drains SW. Ascend.
64.00	SW point of ridge spur. Descend.
68.00	Wash 30 lks.wide,10 ft.deep,drains S.
80.33	Intersect N and S line 72 lks.N of cor.of secs. 14,15,22, and 23,which is a quartzite 8x12x9 ins.above ground,marked, and witnessed as described by the surveyor general.
	At intersection,set a limestone 12x9x6 ins.8 ins.in the ground,for closing cor.of secs. 14 and 23,marked CC on E, 3 grooves on S,and 2 grooves on E faces,and raise a mound of stone 2 ft.base 1½ ft.high E of cor. Pits impracticable

SUBDIVISION OF T.4 S. R.22 E.

Chains	
	I destroy all marks on old cor.pertaining to secs.14 and 23.
	Land broken.
	Soil 2d.rate;rocky.
	No timber.
	White sage.
	Mountainous land on 80.33 chs.

	N.0°1'W.bet.secs.13 and 14.
	Ascend along E slope of bench.
6.00	Top of bench spur,100 ft.above cor.projects N.75° E.
	Descend.
16.40	Bottom of hollow 150 ft.below spur,drains N.75° E.
	Ascend.
20.00	Top of ridge spur,150 ft.above hollow,projects N.75° E.
	Descend. J.C.Bryant's house bears N.87°45'E.21.50 chs.dist.
32.80	Bottom of hollow 150 ft.below spur,drains SE. Ascend.
35.00	Top of ridge spur,75 ft.above hollow,projects SW. Descend.
40.00	Set a sandstone 16x10x4 ins.10 ins.in the ground,for ¼ sec.
	cor.marked ¼ on W face,and raise a mound of stone 2 ft.base
	1½ ft.high W of cor. Pits impracticable.
	In bottom of hollow,50 ft.below spur,drains SW.
	Ascend.
45.00	W slope of high hill. Descend.
62.15	Bottom of hollow 300 ft.below hill top,drains S.75° E.
	Ascend.
80.00	Set a limestone 14x12x8 ins.9 ins.in the ground,for cor.of
	secs.11,12,13,and 14,marked 4 notches on S;1 notch on E edge,
	and raise a mound of stone 2 ft.base,1½ ft.high W of cor.
	Pits impracticable.
	Land broken.
	Soil 2d.rate,mostly clay.
	White sage.
	No timber.
	Mountainous land on 80.chs.
	(September,25th.1906.

SUBDIVISION OF T.4 S.,R.22 E.

Chains	
	September,26th.:At 7h.22m.,a.m.,l.m.t.,I set off 40°29'on lat.arc;1°00' S on decl.arc,and determine a meridian with solar at the cor.of secs. 11,12,13,and 14.
	Thence I run
	East on a random line bet.secs.12 and 13.
40.00	Set temp.¼ sec.cor.
80.04	Intersect E bdy.of Tp.20 lks.N of cor.of secs.7,12,13, and 18,on Ashley Guide meridian,heretofore described.
	Thence I run
	N.89°51'W.on a true line bet.secs.12 and 13. Descend.
17.50	Enter willow brush.
21.40	Brush Creek,30 lks.wide,18 ins.deep,sandy bottom,rapid current,flows S.
24.00	Leave willow brush.
27.25	Road bears SW and NE,
27.50	Leave creek bottom;ascend.
29.25	Top of ridge spur,50 ft.above creek bottom,projects S.2 c. Descend.
31.50	Bottom of hollow 50 ft.below spur,drains S. Ascend.
37.60	Enter bench,bears NW and SE. Now across same.
40.02	Set a limestone 20x12x10 ins.15 ins.in the ground,for ¼ s. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
53.25	Descend from bench.
55.40	Bottom of hollow,75 ft.below bench,drains SE. Ascend.
62.00	Top of ridge spur,100 ft.above hollow,projects SE. Descen.
70.25	Bottom of hollow,75 ft.below spur,drains SE. Ascend.
74.80	Top of ridge spur,75 ft.above hollow,projects SE. Descend 50 ft.to cor.
80.04	The cor.of secs. 11,12,13,and 14.
	Land broken and level.
	Soil,1st.rate,loam;and 3d.rate,rocky.
	No timber.
	Undergrowth,willows,sage brush and shadscale.
	Mountainous land on 73.94 chs.

SUBDIVISION OF T.4 S. R.22 E.

Chains	
	Knowing that I will not close on the cor.of secs.10,11,14,and 15,within limits
	I run
	West on a true line bet.secs.11 and 14. Ascend.
5.00	Top of ridge spur,100 ft.above cor.projects S.15° W.
	Descend.
20.00	Bottom of hollow 200 ft.below spur,drains SE. Ascend.
35.65	Top of ridge 300 ft.above hollow,bears N and S. Descend.
37.25	Bottom of hollow 30 ft.below ridge,drains S. Ascend.
40.00	Set a sandstone 16x14x8 ins.11 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
43.40	Top of ridge spur,75 ft.above cor.projects S.15° E.
	Descend.
44.35	Bottom of hollow 75 ft.below spur,drains S. Ascend.
50.00	Top of ridge spur,200 ft.above hollow,projects SE. Descend.
60.90	Enter flat,bears N and S.
61.37	Wash 10 lks.wide,4 ft.deep,drains S. Ascend.
72.80	Top of ridge spur,100 ft.above flat,projects S. Descend.
81.28	Intersect N and S line 1.40 chs. N of cor.of secs. 10,11, 14,and 15,which is a limestone 6x10x5 ins.above ground,marked, and witnessed as described by the surveyor general.
	At intersection,set a limestone 12x10x6 ins.8 ins.in the gr ground,for closing cor.of secs.11 and 14,marked C C on E; 4 grooves on S;2 grooves on E faces;raise a mound of ston 2 ft.base 1½ ft.high E of cor. Pits impracticable.
	I destroy all marks on old cor.pertaining to secs.11 and 4.
	Land very broken.
	Soil2d.and 3d.rate,mostly clay.
	No timber.
	Undergrowth,shadscale;white sage;no grass.
	Mountainous land on 81.28 chs.

	N.0°1'W.bet.secs.11 and 12.
	Ascend E slope of high clay hill.

Chains	
7.00	Descend.
11.25	Head of hollow,drains SE. Ascend.
19.73	Top of W end high hill,200 ft.above head of hollow.
	Descend.
29.00	Bottom of hollow,300 ft.below hill top,drains NE. Ascend
36.00	Top of ridge spur,75 ft.above hollow,projects E.
	Descend.
38.50	Head of hollow,drains E. Ascend.
40.00	Top of ridge spur,50 ft.above head of hollow,projects N.
	Set a sandstone 18x10x6 ins.12 ins.in the ground,for ¼ sec.
	cor.marked ¼ on W face,and raise a mound of stone 2 ft.base
	1½ ft.high W of cor. Pits impracticable.
	Descend.
45.63	Bottom of hollow,100 ft.below spur,drains S.60°E. Ascend
50.75	Top of ridge spur,100 ft.above hollow,projects S.60° E.
	Descend.
53.23	Bottom of hollow 75 ft.below spur,drains S.60° E. Ascend
57.15	Top of rocky ridge spur,75 ft.above hollow,projects S.60
	Descend.
64.50	Bottom of hollow 150 ft.below spur,drains E.5 chs. then
	Ascend.
79.75	Top of reef,100 ft.above bottom of hollow,bears S.80° W.
	and N.80° E. Descend 20 ft.to cor.
80.00	Set a limestone 20x6x4 ins.15 ins.in the ground,for cor.
	secs.1,2,11,and 12,marked 5 notches on S;1 notch on E and
	and raise a mound of stone 2 ft.base 1½ ft.high W of cor.
	Pits impracticable.
	Land very broken.
	Soil,2d.and 3d.rate,rocky.
	No timber.
	White sage.
	Mountainous land on 80.chs.

	S.89°51'E.on a random line bet.secs.1 and 12.
40.00	Set temp.¼ sec.cor.

Chains	
79.96	Intersect E bdy.of Tp.20 lks.S of cor.of secs.1,and 12,on Ashley Guide meridian,heretofore described.
	Thence I run
	West on a true line bet.secs.1 and 12. Ascend.
14.50	Top of NE point of hill top,150 ft.above cor.
	Descend gradually.
27.00	Bottom of hollow,100 ft.below hill top,drains NE. Ascend.
30.00	Top of ridge spur,100 ft.above hollow,projects NE. Descend.
36.50	Head of hollow,50 ft.below spur,drains N.75° E. Ascend.
39.00	Enter plateau.
39.98	Set a sandstone 24x15x8 ins.18 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
52.50	Leave plateau.
53.50	Precipice,15 ft.high,bears N.75° E. and S.75° W. along S. side of reef;ascend.
67.50	Top of reef,150 ft.above flat,bears N.75° E. and S.75° W.
	Descend along N slope of reef.
79.96	The cor.of secs.1,2,11,and 12.
	Land broken.
	Soil 3d.rate,rocky.
	Timber,a few scrubby cedars.
	Shadscale and whitesage.
	Mountainous land on 79.96 chs.

September,26th,1906: I set off 1°05' on the decl.arc,and at 11h.55m.,a.m.,by my watch,which is 3m.fast of l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading 40°30",which agrees with other data.

	Thence I run
	N.0°1'W.on a random line bet.secs.1 and 2.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N bdy.of Tp.at cor.of secs. 1,2,35,and 36,heretofore described.
	Thence I run
	S.0° 1'E.on a true line bet.secs.1 and 2.

Chains	
	Descend.
7.00	Road bears E and W on top of ridge spur,40 ft.above cor. projecting E. Descend.
15.00	Head of hollow,drains N.80° E. Ascend.
32.00	Top of NW end of clay hill,100 ft.above head of hollow, bears NW and SE.5 chs. Descend.
35.00	Road bears NW and SE.
40.00	Set a limestone 15x8x6 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
	Descend gradually along W slope.
55.50	Bottom of hollow,30 ft.below cor.drains SW. Ascend.
67.00	Top of ridge spur,30 ft.above hollow,projects SW. Descend.
75.00	Bottom of hollow,25 ft.below spur,drains SW. Ascend.
80.00	The cor.of secs. 1,2,11,and 12.
	Land broken.
	Soil,2d.rate,mostly clay.
	No timber.
	White sage;no grass.
	Mountainous land on 80.chs.

	West on a true line bet.secs.2 and 11. Descend.
9.00	Bottom of hollow,30 ft.below cor.drains S. Ascend.
12.50	Top of bench spur,30 ft.above hollow,projects SE. Descend.
22.50	Bottom of hollow.50 ft.below spur,drains SE. Ascend.
37.50	Top of ridge spur from clay hill,75 ft.above hollow,projects NW. Descend.
40.00	Set a sandstone 18x8x5 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
42.00	Bottom of hollow 50 ft.below spur,drains NW. Ascend.
45.00	N.point of ridge spur,20 ft.above hollow; Descend.
48.50	Bottom of hollow 30 ft.below point of spur,drains NE. Ascend.

SUBDIVISION OF T.4 S.,R.22 E.

Chains

55.00 Enter bench,bears N and S. Now across same.

68.00 Road bears NE and SW.

69.00 Descend to lower bench.

76.50 Head of hollow,drains SW. Ascend.

80.00 Set a limestone,12x10x8 ins.8 ins.in the ground,for cor. f secs.2,3,10,and 11,marked 5 notches on S;2 notches on E dge, and raise a mound of stone 2 ft.base,1½ ft.high W of cor

Pits impracticable,

Land broken.

Soil 2d.rate,gravelly and rocky.

No timber.

Shadscale,scrub sage,and white sage;no grass.

Mountainous land on 80.chs.

S.0° 2'E.on a random line bet.secs.10 and 11.

40.00 Set temp.¼ sec.cor.

80.00 Intersect E and W line 1.28 chs. E of closing cor.of sec. 11 and 14,heretofore described.

At intersection,set a sandstone 12x10x7 ins.8 ins.in the ground,for closing cor.of secs. 10 and 11,marked CC on N; with 4 grooves on S and 2 grooves on E faces;raise a mou d of stone 2 ft.base 1½ ft.high N of cor. Pits impractica le.

I destroy all marks on C C of secs. 11 and 14,and remark same for sec.14 only.

Thence I run

N.0° 2'W.on a true line bet.secs.10 and 11.

Gradual ascent over bench,bearing N and S.

36.00 Road bears NE and SW.

40.00 Set a limestone 12x10x6 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base, 1½ ft.high W of cor. Pits impracticable.

43.50 Leave bench;descend NW slope.

48.50 Bottom of hollow 40 ft.below bench,drains S.20°W. Ascend.

53.50 Top of ridge spur,40 ft.above hollow,projects S.25°W. Descend.

Chains	
57.00	Head of hollow,drains SW. Ascend.
60.00	Enter bench,bears NW and SE.
70.00	Leave same. Descend.
74.50	Bottom of hollow,50 ft,below bench,drains SW. Ascend.
75.00	Re-enter bench.
80.00	The cor.of secs.2,3,10,and 11.
	Land broken..
	Soil 2d.rate,gravelly.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.chs. (September,26th.1906.

	September,27: Sky overcast with clouds. N.0° 2'W.on a random line bet.secs.2 and 7.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.04	Intersect N bdy.of Tp.16 lks.W of cor.of secs.2,3,34,and 3 heretofore described.
	Thence I run
	S.0° 05'W.on a true line bet.secs.2 and 3. Ascend.
5.50	W slope of hill 300 ft.above hollow on N. Descend.
9.00	Head of hollow,drains SE. Ascend.
13.00	Top of ridge 300 ft.above bottom along Brush creek; Divide between Ashley and Brush creeks,bears NW and SE. Descend.
40.04	Set a sandstone 24x10x8 ins.18 ins.in the ground,for $\frac{1}{4}$ sec cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.bas. $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
43.00	Bottom of hollow 100 ft.below top of ridge,drains S.5°E.
	Now down same.
54.70	Road bears SW and NE.
56.65	Wash 75 lks.wide,5 ft.deep,in bottom of hollow,drains S.5°
	Ascend gradually from hollow.
80.04	The cor.of secs. 2,3,10,and 11.
	Land broken.
	Soil 2d.rate;gravelly.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.04 chs.

SUBDIVISION OF T.4 S.,R.22 E.

Chains	
	Knowing the north bdy.of secs.15,16,17 and 18 to be out of limit
	I run
	West on a sectional correction line bet.secs.3 and 10. Descend.
4.00	Bottom of hollow 75 ft.below cor.drains S. Ascend.
10.00	Top of ridge spur,75 ft.above hollow,projects S. Descend.
12.00	Enter flat,bears N and S.
17.50	Wash 5 lks.wide,2 ft.deep,drains SW.
25.00	Wash 5 lks.wide,2 ft.deep,drains S.25° W.
30.00	Leave flat;ascend.
31.50	Top of ridge spur,10 ft.above flat,projects S.3 chs. Descend.
33.50	Wash 10 lks.wide,2 ft.deep,in bottom of small hollow, drains S.20° E. Ascend.
39.50	Enter bench,bears N and S.
40.00	Set a sandstone 18x15x12 ins.12 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{2}$ on N face,and raise a mound of stone 2 ft. base,$1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
44.00	Leave bench;descend.
56.00	Bottom of hollow 25 ft.below bench,drains S.25°W. Ascend.
58.50	Top of detached ridge,30 ft.above hollow,bears N.10 chs. S.4 chs. Descend.
63.00	Bottom of hollow,25 ft.below ridge,drains S. Ascend.
65.00	Top of ridge 15 ft.above hollow,bears N and S. Descend.
77.00	Bottom of hollow,15 ft.below ridge,drains S. Ascend.
80.00 57.50 / 22.50	Set a sandstone 12x10x8 ins. 8 ins.in the ground,for cor. of secs.3,4,9,and 10,marked 5 notches on S;3 notches on E edges,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high,W of cor. Pits impracticable.
	On S slope of small hill,15 ft.above hollow.
	Land rolling and level.
	Soil,2d.rate;rocky.
	White sage and shadscale.
	No timber.
	Mountainous land on 57.50 chs.

Chains	
	N.0° 2'W.on a random line bet.secs.3 and 4.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.97	Intersect N bdy.of Tp.2 lks.W of cor.of secs.3,4,33,and 34,heretofore described.
	Thence I run
	S.0° 1'E. on a true line bet.secs.3,and 4. Descend.
15.00	Enter hollow,drains Southerly.
18.00	Wash,in hollow,8 lks.wide,2 ft.deep,drains S.20° W.
25.00	Same wash,drains S.20° E.
39.80	Leave hollow;enter broad flat.
79.98½	Set a limestone 12x10x6 ins.8 ins.in the ground,for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.
45.00	E end of clay knoll 15 ft.above flat. Descend.
73.00	Small clay knoll 10 ft.west of line.
74.50	Road bears NE and SW.
75.00	Wash 4 lks.wide,1 ft.deep,drains SW. Ascend.
79.97	The cor.of secs.3,4,9,and 10. on small hill.
	Land level and broken.
	Soil 1st.and 3d.rate;mostly clay.
	White sage.
	No timber.
	Mountainous land on 39.80 chs.

September,27th.1906:I set off 1°29' S. on the decl.arc,and,at 11h.54m.,a.m.,by my watch,which is 3m.fast of l.m.t.,observe the sun on the meridian,and obtain on the lat.arc, the reading 40° 30' which agrees with other data.

	Thence I run
	S.0° 2'E.on a random line bet.secs.9 and 10.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
82.07	Intersect E and W line 0.67 ch.E of cor.of secs.9,10,15, and 16,which is a limestone 5x12x12 ins.above ground,marked and witnessed as described by the surveyor general. At intersection,set a sandstone 20x10x8 ins.15 ins.in ground,for closing cor.of secs.9 and 10,marked C C on N.

Chains

with 4 grooves on S;3 grooves on E faces,and raise a mound of stone 2 ft.base.1½ ft.high N of cor. Pits impracticable. I destroy all marks on old cor.that pertain to secs.9 and 10

Thence I run

N.0° 2'W.on a true line bet.secs.9 and 10.
Over gently rolling land.

25.50 Wash,30 lks.wide,5 ft.deep,drains SE.

32.50 Wash 20 lks.wide,3 ft.deep,drains SE.

42.07 Set a limestone 20x12x8 ins.15 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

47.50 Bottom of hollow 10 ft.deep,drains SE. Ascend.

50.50 Bottom of same hollow,drains S.10° W.

57.50 Bottom of same hollow,drains SE.

80.00 Ascend small clay hill,15 ft.above flat.

82.07 The cor.of secs.3,4,9,and 10.

Land level and slightly rolling.

Soil 1st.and 2d.rate;mostly clay.

White sage.

No timber.

West on a sectional correction line bet.secs. 4 and 9,

Descend.

1.50 Wash 5 lks.wide,1 ft.deep,drains S. Ascend gradually.

4.00 Road bears NE and SW.

17.00 Top of ridge 25 ft.above flat,bears N 5 chs.S 6 chs.

Descend.

19.50 Bottom of hollow 25 ft.below ridge,drains S.15° W. Ascend.

24.00 Top of ridge spur,25 ft.above hollow,projects S.15° W.

Descend.

25.00 Bottom of hollow 30 ft.below spur,drains S. Ascend.

28.00 Top of ridge spur,30 ft.above hollow,projects S.20° W.

Descend.

30.00 Set a sandstone 15x10x8 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.

Chains	
42.50	Wash 20 lks.wide,10 ft.deep,drains SW.
43.00	Wash 40 lks.wide,10 ft.deep,drains S. Ascend.
59.50	Top of ridge 50 ft.above wash,bears N and S. Descend.
77.50	Bottom of hollow 30 ft.below ridge,drains SW. Ascend.
80.00	Set a sandstone 18x12x10 ins.12 ins.in the ground,for cor. secs.4,5,8,and 9, marked 4 notches on E. and 5 notches on S.edges; and raise a mound of stone 2 ft.base, 1½ ft. high W.of cor.Pits impracticable.
	Land rolling. Soil, 1st and 3d rate; rocky.
	White sage and shadscale.
	No timber.

	S.0° 3'E,on a random line bet.secs.8 and 9.
40.00	Set temp.¼ sec.cor.
82.90	Intersect E and W line 1.03 chs.E of cor.of secs.8,9,16, and 17,which is a limestone 6x8x6 ins.above ground,marked witnessed as described by the surveyor general.
	At intersection,set a sandstone 12x10x6 ins.8 ins.in the ground,for closing cor.of secs.8 and 9,marked C C on N,with 4 grooves on S;and 4 grooves on E faces;dug pits 24x18x12 ins.crosswise on each line E and W 3 ft.dist.and N of stone 7 ft.dist,and raise a mound of earth 4 ft.base,2 ft.high N of cor. I destroy all marks on old cor.pertaining to secs.8 and 9.
	Thence I run
	N.0°3'W.on a true line bet.secs.8 and 9. Ascend.
21.40	Top of ridge spur,15 ft.above cor.projects SW. Descend.
42.90	Set a limestone 12x10x7 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,dug pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 2½ ft.base 1½ ft.high W of cor.
55.40	Road bears E and W.
79.90	Wash 15 lks.wide,4 ft.deep,drains SW.
82.90	The cor.of secs.4,5,8,and 9.
	Land level and rolling.
	Soil 1st.and 2d.rate.mostly clay.

Chains	
	White sage.
	No timber.

	September,27th: At 2h.51m.,p.m.,l.m.t.,I set off 40°29' n lat.arc;1°32'S.on decl.arc,and determine a meridian with the solar at the cor.of secs. 4,5,8,and 9.(The forenoon was over-cast with clouds.)
	Thence I run
	N.0°3'W.on a random line bet.secs.4,and 5.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N bdy.of Tp.16 lks.W of cor.of secs.4,5,32,and 33 heretofore described.
	Thence I run
	S.0° 4'W.on a true line bet.secs. 4,and 5. Ascend.
24.50	Top of ridge spur,25 ft.above cor.projects SW. Descend.
30.00	Bottom of hollow 20 ft.below spur,drains SW. Ascend.
37.50	Top of ridge spur,15 ft.above hollow,projects SW. Descend.
79.96	Set a sandstone 12x10x5 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
42.00	Bottom of hollow,15 ft.below spur,drains SW.
	Ascend 3 ft.,-now across flat hollow.
55.00	Wash 3 lks.wide,1 ft.deep,drains SW. Ascend.
65.00	Top of ridge spur,15 ft.above flat,projects SW. Descend.
79.96	The cor.of secs.4,5,8,and 9.
	Land rolling.
	Soil2d.rate;mostly clay.
	White sage and shadscale.
	No timber. (September,27th.1906.

	September,28th:At 7h.21m.,a.m.,l.m.t.,I set off 40°29'on lat.arc;1°46'S.on decl.arc,and determine a meridian with the solar at the cor.of secs.4,5,8,and 9.
	Thence I run
	West on a sectional correction line bet.secs.5 and 8.

Chains	
	Ascend.
5.50	Top of ridge spur,20 ft.above cor.projects S. Descend.
27.50	Bottom of hollow,20 ft.below spur,drains S. Ascend.
34.00	Top of ridge spur,30 ft.above hollow,projects S. Descend.
35.50	Bottom of hollow,40 ft.below spur,drains S. Ascend.
39.00	Top of ridge spur,30 ft.above hollow,projects S. Descend.
40.00	Set a limestone 14x12x10 ins.9 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 3 ft.base 1½ ft.high N of cor. Pits impracticable.
47.50	Bottom of hollow 25 ft.below spur,drains SE. Ascend.
54.00	Top of ridge spur,40 ft.above hollow,projects S. Descend.
61.00	Enter broad basin,bears N and S. Now across same.
70.00	Wash,6 lks.wide,18 ins.deep,drains S.
72.50	Leave basin;ascend.
78.00	Top of ridge spur,100 ft.above basin,projects S. Descend.
80.00	Set a limestone 18x12x10 ins.12 ins.in the ground,for cor. of secs.5,6,7,and 8,marked 5 notches on S;5 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil 2d.rate,rocky.
	Shadscale and white sage.
	No timber.
	Mountainous land on W 7.50 chs.

	S.0° 4'E.on a random line bet.secs.7 and 8.
40.00	Set temp.¼ sec.cor.
83.90	Intersect E and W line 0.95 ch.E of cor.of secs.7,8,17, and 18,which is a quartzite 5x3x6 ins.above ground,marked and witnessed as described by the surveyor general. At intersection,set a limestone 15x12x8 ins.10 ins.in the ground,for closing cor.of secs.7 and 8,marked CC on N,with 4 grooves on S and 5 grooves on E faces,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable. Thence I run

SUBDIVISION OF T.4 S.,R.22 E.

Chains	
	N.0° 4'W.on a true line bet.secs.7 and 8. Descend.
1.90	Bottom of hollow,30 ft.below cor.drains NE. Ascend.
5.40	Enter bench,30 ft.above hollow bears NE and SW.
	Now across same.
11.90	Leave bench;descend.
22.90	Bottom of hollow,20 ft.below bench,drains SW. Ascend.
30.40	Road bears NE and SW. on top ridge spur,25 ft.above hollow.
	Spur projects SW. Descend.
32.90	Bottom of hollow,20 ft.below spur,drains W. Ascend.
33.90	Top of ridge spur,25 ft.above hollow,projects S.60° W.
	Descend.
39.90	Bottom of hollow,20 ft.below spur,drains SW. Ascend.
43.90	Set a limestone 12x10x8 ins.8 ins.in the ground,for $\frac{1}{4}$ sec.
	cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.base
	$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	On broken W slope.
45.90	Enter hollow,draining S.10° W.
47.90	Leave same. Ascend over broken slope.
33.90	The cor.of secs.5,6,7,and 8.
36.00	
37.90	Land broken.
	Soil 2d.rate,rocky.
	Shadscale and white sage.
	No timber.
	Mountainous land on 36.chs.

	N.0° 4'W. on a random line bet.secs.5 and 6.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.88	Intersect N bdy.of Tp.at the cor.of secs.5,6,31 and 32,here-
	tofore described.
	Thence I run
	S.0°4'E.on a true line bet.secs.5 and 6.
	Descend in hollow.
6.00	Wash 25 lks.wide,8 ft.deep,drains S.20° E.
30.00	Same wash,drains S.30° W. Ascend.
39.88	Set a sandstone 15x10x4 ins.10 ins.in the ground,for $\frac{1}{4}$ sec.

Chains	
	cor.marked ¼ on W face,and raise a mound of stone 2 ft.ba
	1½ ft.high W of cor. Pits impracticable.
62.50	Top of ridge spur,25 ft.above wash,projects N.20° W.
	Descend.
70.00	Head of hollow,drains SW. Now along broken W slope of s
79.88	The cor.of secs.5,6,7,and 8.
	Land broken.
	Soil,3d.rate;rocky.
	Shadscale,and white sage;no grass.
	No timber.
	Mountainous land on 9.88 chs.

	Sept.28th.1906: I set off 1°52'S on the decl.arc,and,at 11
	53m.,a.m.,by my watch which is 3m.fast of l.m.t.,observe
	the sun on the meridian,and obtain 40°29' on the lat.arc,
	which agrees with other data.
	Thence I run
	West on a sectional correction line,bet.secs.6 and 7.
	Descend W slope.
11.00	Bottom of hollow,75 ft.below cor.drains S.20° W. Ascend.
17.50	Top of ridge spur,75 ft.above hollow,projects S.20° W.
	Descend.
26.00	Bottom of hollow,100 ft.below spur,drains SW then SE.
	Ascend.
30.50	Top of ridge 100 ft.above hollow,bears N and S. Descend.
35.00	Bottom of hollow,100 ft.below ridge,drains S.
	Now across hollow.
40.00	Set a quartzite stone 12x9x7 ins.8 ins.in the ground,for ¼ sec.
	cor.marked ¼ on N face,and raise a mound of stone 2 ft.
	1½ ft.high N of cor. Pits impracticable.
41.50	Wash in same hollow,5 lks.wide,2 ft.deep,drains SE.
	Ascend.
46.50	Enter bench 50 ft.above hollow,bears N and S. Now across
62.00	Leave same;descend.
65.00	Bottom of hollow 75 ft.below bench,drains S. Ascend.

Chains	
67.50	Top of ridge spur,50 ft.above hollow bears S 3 chs.
	Descend.
70.00	Bottom of hollow,50 ft.below spur,drains S.10° E.
	Ascend.
79.00	Top of ridge spur,50 ft.above hollow,projects S.
	Descend.
83.69	Intersect W bdy.of Tp.N.0°29'W. 4.51 chs.from cor.of sec-tions,1,and 12,which is a quartz 5x11x3 ins.above ground,marked and witnessed as described by the surveyor general.

At intersection,set a limestone 12x10x8 ins.8 ins.in the ground,for closing cor.of secs.6 and 7,marked CC on E,with 5 grooves on S;1 groove on N faces;dug pits 24x18x12 ins. crosswise on each line N and S 3 ft.amd E of stone 7 ft. dist.and raise a mound of earth 4 ft.base 2 ft.high E of cor.

Land broken.

Soil 3d.rate,rocky.

Shadscale and white sage;no grass.

No timber.

Mountainous land on 83.69 chs.

(September,28th,1906.

GENERAL DESCRIPTION.

This township lies between Ashley and Brush creeks,and is, for the most part made up of broken and rolling clay lands having a general southward slope,and producing shadscale and white sage,valuable for winter range for sheep only.

Brush creek enters this township but immediately leaves it again near the northeast corner;but re-enters it in section 12,flowing through secs,12,13,24,25,and again leaving it in sec.36. A few small tracts are cultivated along the narrow bottom extending along Brush creek. J.G.Bryant is cultivating about 40 acres in sec.13,he has a log house,stables corrals and fence around fields,value of improvements:$1000. J.B.Henry,whose barn is situated in Sec.7 T.4 S.,R.23 E., is cultivating about 10 acres in sec.12 of this Tp.which is

fenced,value of improvements in this Tp.-$100,His log house is in sec.12 this township.

Wilson Boan is cultivating about 50 acres in secs. 24 and 25,all of which is fenced;he has a log House,stable,corr etc.,value of improvements:-$1200.

J.H.Bryant is cultivating 50 acres in sec.7,which is und fence,has a log house,stable,corrals etc.,value of improv ments:-$1000.

James Beddo is cultivating 80 acres in sec.7,all of which is fenced,has a log house,stable,corrals,etc.,value of i provements:-$1200.

There is no timber in this township,except a few scrubb cedars in secs.11 and 12,and an occasional cottonwood alo Brush creek.

There is evidence of the existence of a coal vein about 4 ft.in thickness in secs.11,12,13,24,and 25;the followin legal subdivisions should be classed as coal lands:- NE¼ sec.11;N½ NW¼ and N½ NE¼ sec.12;SE¼ SW¼ sec.13;W½ NW sec.25;W½ SW¼ sec.24;and E½ NE¼ sec.26.

The most of that portion of this township,previously surveyed by Deputy A.D.Ferron,as also portions of those sections immediately adjoining same,is susceptible of irr gation,and although the surface is rolling,is adapted to the culture of alfalfa and cereals.

There are no indications of the existence of gold,silver copper,lead,cinnabar,asphaltum or salines in this townsh

Wm.Jackson in sec.7,has 30 acres under cultivation, a two room log house,stable and corrals;value of improvements $800.00.

Edgar F. Hammon
U.S.Deputy Surveyor.

FI EPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F.Harmston, 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 e subdivision lines of T.4 S.,R.22 E.,S.L.B & M., Utah; owing the respective capacities in which they acted:

arles L.Bailey, *Chainman.*

aig Harmston, *Chainman.*

llette Harmston, *Moundman.*

Moundman.

t Shisler, *Axman.*

Axman.

adner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F.Harmston, United States Deputy Surveyor, in surveying all ose parts or portions of the the subdivision lines of T.4 S.,R.22 E. of the Salt Lake meridian, State of Utah, 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 ner monuments established, according to the instructions furnished by the United States Surveyor neral for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

bscribed and sworn to before me this 9th day of August, 1907, 189

SEAL

Ward E. Pack Jr
Notary Public

6—161

FINAL OATH OF UNITED STA ES 'E ' S .V YI R.

I, Edgar F Hamston, United States Deputy Survey solemnly swear that, in pursuance of a contract received from Jacob B Blair United States Surveyor General for Utah, bearing date 19th day of December 1899, I have well, faithfully, and truly, in proper person, and in strict conformity with the instructions furnished by the United States Su General for Utah, the Manual of Surveying Instructions, and the laws United States, surveyed all those parts or portions of the subdivision lines of T 4 S. R. 22 E.

of the Salt Lake meridian, in the State of Utah, 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 accordanc the Manual of Surveying Instructions, and the special written instructions of the United States Su General for Utah and in the specific manner described in the field notes, an the foregoing are the original field notes of such survey; and should any fraud be detected, I will the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Edgar F. Hamston
United States Deputy Su

Subscribed by said Edgar F Hamston, and sworn to before me this 9th day of August, 1907.

James C Hackney
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 190

The foregoing field notes of the survey of the subdivisional lines of Townsh 4 South, Range No. 22 East of the Salt Lake Base and Meridian, Ut

executed by Edgar F. Hamston under his contract No. 235, dated December 19, 1899, havin critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor Ge

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

United States Surveyor Ge

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4—679.

BOOK A-339

X.3.B.

FIELD NOTES

OF THE SURVEY OF THE

East and North
Boundaries
T. 4 S. — R. 23 E.

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Adolphe Jesson and
Edgar F. Harmston, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 235, dated December 19th, 1899.

Survey commenced May 12th, 1900

Survey completed May 16th, 1900

6—161

East Bdy. [illegible] 5.75.64 ✓
[illegible] 5.07.83 ✓

72.00 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox chainman

John Holmes "

Josiah Timmes Monumentman

Albert Kone Axeman

Craig Harmston Flagman

For preliminary affidavits see Cook A. Tp. 3 S. R 21 E.

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BOOK A-339

INDEX DIAGRAM.

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

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.....

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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 assis
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surve
.....

..... , *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 establish
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 surv
.....

..... , *Axm*

..... , *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, i
survey of .....

..... , *Flag*

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

.....

SEAL

.....

East Boundary of T. 4 S. R. 23 E. S. L. Mer.

Survey commenced May 12th 1900

At the established cor. to Tps. 4 & 5 S. - Rgs. 23 & 24 E. Salt Lake Meridian in Lat. 40° 25' N. Longitude 109° 17' W. I carefully examined the adjustments of the Transit and test the Solar apparatus by comparing the results of observations on the sun made during A.M. and P.M. hours with a true Meridian determined by observations on Polaris.

At 4 h. P.M. L. m. t. I set off 40° 25' N. on the Lat. arc. and 18° 13' N. on the decl. arc. and determine with the Solar a true Meridian and mark a point thereof by pencil mark No 1 on a stake set firmly in the ground 5 chs. N. of cor.

At 10 h. P.M. L. m. t. I observe Polaris in accordance with instructions in the Manual at Lower Culmination and mark the direction thus determined by making pencil mark No 2 on the stake set in the afternoon on which the true Meridian falls 0.4 ins West of the mark determined by the Solar -

May 13th 1900 - At 7 h. a.m. L. M. T. I set off 40° 25' N. on the Lat. arc. and 18° 23' N. on the decl. arc and mark a point in the true Meridian determined with the Solar by pencil mark No 3 on the stake already set 5 chs. N. of my station. This mark falls 0.3 ins E. of the mark of the true Meridian established by Polaris observation.

The Solar apparatus by P.M and A.M observations defines positions for true Meridian respectively 0' 21" and 0' 16" East of the position established for the true Meridian by the Polaris observation - Therefore I conclude the adjustments of the transit are satisfactory.

The magnetic bearing of the true Meridian at 7.30 a.m. is N. 15° 59' W. which reduced by the table on Page 100 of the Manual gives the mean magnetic declination 15° 55' East.

East Boundary of T. 4 S. R. 23 E.

chs

From the cor. to Tps. 4 & 5 S. Rgs. 23 & 24 E. which is a cobblestone 16 x 8 x 6 ins. set, marked and witnessed as described by the Surveyor General

North bet. secs 31 & 36.

Descend

7.50 Hollow 50 ft. deep drains NW.

10.00 Knoll 50 ft. high 1 ch. E. of line

29.50 Enter flat. bears NE. & SW.

40.00 Set a sandstone 12 x 7 x 6 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face dig pits 18 x 18 x 12 ins. N. & S. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor. —

70.00 Leave flat — Ascend S. slope of Black Mountain

76.00 Ridge 200 ft. high bears E. & W.

80.00 Set a sandstone 20 x 9 x 3 ins. 15 ins. in the ground for cor to secs 25. 30. 31 & 36, marked 5 notches on N. and 1 on S. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Pits impracticable.

Land rocky hills and flat.

Soil 3rd and 1st rate, rocky and sandy loa

Dense sagebrush in flat 40.25 chs

Mountainous or dense undergrowth on 80.00 chs.

North bet. secs 25 & 30

Descend

3.50 Enter broad hollow drains W.

10.00 Leave hollow — ascend

16.50 Ridge 50 ft. high bears E. & W. — Precipitous descent

[illegible] Enter broken bluff covered with cedars

35.50 Leave bluff and cedars — Ascend

40.00 Set a sandstone 18 x 15 x 5 ins. 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face and raised a stonemound 2 ft. base 1 1/2 ft. high W. of cor. —

Pits impracticable

40.35 Summit of ridge 100 ft high bears E. & W. —

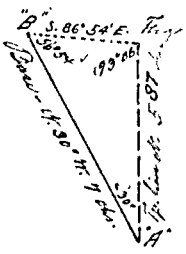
East Boundary of T. 4 S. – R. 23 E.

50.50	Gulch 100 ft. deep drains S.W.
80.00	Set a sandstone 18 x 10 x 4 ins. 12 ins. in the for cor. to secs 19. 24. 25 & 30, marked 4 notches on N. and 2 on S. edges and raised a mound of stone 2 ft base 1½ ft. high W. of cor. – Pits impracticable
	Land high broken mountains
	Soil 3rd rate, rocky
	Thick cedars on 18.80 chs.
	Mountainous in 80.00 chs

North bet. secs. 19 & 24

1.75	S.W. rim of Split Mountain Canyon bears N.W. & S.E. A precipitous canyon wall 1000 ft. deep prevents further chaining, so I place a flag on line in the bottom of the canyon and from the point reached "A" measure off a base N. 30° W. 7.00 chs. from point "B" the northwest point of said base the flag in the canyon placed on line bears S. 86° 54' E.

a. c. log. sin 93°06 = 0.000636
log sin 56°54 = 9.923098
log 7.00 = 0.845098
log 5.87 = 0.768832



7.62	Flag on line at right bank of Green River which runs S.E. – Set a sandstone 24 x 15 x 12 ins. 18 ins in the ground for Meander Cor. to secs. 19 & 24, marked M.C. on N. face and raised a mound of stone 2 ft. base 1½ ft. high. S of Cor. Pit impracticable

The line now continues N. in the river for a considerable distance untill it again reaches the right bank – Split Mountain Canyon in which the River runs is too narrow and tortuous for triangulation basis. Therefore I place a flag N. on my line on the right bank of Green River beyond Island and run a traverse line of offsets in the

East Boundary of T. 4 S. R. 23 E.

chs. right bank of Green River from Meander cor just set to flag

chs	Courses	Distance	North	East	West
1	N. 23° 30' W.	4.50	4.13		1.79
2	N. 14° 15' W.	15.20	14.73		3.74
3	N. 5° 15' W.	14.00	13.94		1.28
4	N. 4° 30' E.	3.90	3.89	.31	
5	N. 9° 00 E.	6.40	6.32	1.00	
6	N. 21° 00 E.	5.80	5.42	2.08	
7	N. 51° 10' E.	4.39	2.75	3.42	
			51.18	6.81	6.81

The distance from the Meander cor. set and the flag N. of same is therefore 51.18 chs.

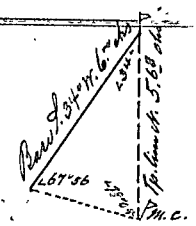
58.80 Right bank of Green River set a sandstone 20 x 12 x 10 ins. 15 ins. in the ground for Meander cor. to secs 19 & 24 and Witness 1/4 sec. cor bet. secs 19 x 24 marked M.C. on S. and W. C. 1/4 on W. faces and raised a mound of stone 3 ft. base 2 ft. high N. of cor. Sits impracticable

May 13th 1900 — At this cor I set off 18° 25' N. on the decl. arc and at 12 h m-l.m.t observe the sun on the Meridian the resulting latitude is 40° 28' N.

Further progress N. on this line by chaining is impracticable on account of the precipitous S.E. wall of Split Mountain Canyon 1000 ft. high nor is the canyon sufficiently wide to afford a base for triangulation Therefore I place a flag on line on top of the [illegible] wall N. of the Meander Cor. just set and leave another flag over the said Meander cor. Then go to the flag set on top of the Canyon Wall and set up my instrument there sighting S. to the flag at the M... Cor. From the station on top of the Canyon Wall I run off a base S. 34° W. 6.00 chs. and from S.W. end of said base my flag at the Meander and Witness 1/4 sec. cor bears S. 78° 04 E.

East Boundary of T. 4 S. R. 23 E.

chs a.c. log sin 78°04' = 0.009489 ✓
log sin 67°56 = 9.966961 ✓
log 6.00 = 0.778151 ✓
log 5.68 = 0.754601 ✓



Distance from Meander cor to flag on line 5.68 chs total distance equals

64.48 Top of S.E. wall of Split Mountain Canyon. Now Ascend gradually over sandstone ledges - Enter pines & cedars

80.00 Set a sandstone 20 x 15 x 9 ins. 15 ins. in the ground for cor to secs 13. 18. 19 & 24 marked 3 notches on N. and S. edges from which
A piñon pine 8 ins. in diam. bears N. 29°58' E. 14 lks. dist. marked T. 4 S. R. 24 E. S. 18 B.T.
A piñon pine 9 ins. in diam bears S. 25°35' E. 48 lks. dist marked T. 4 S. R. 24 E. S. 19 B.T.
A piñon pine 8 ins. diam. bears S. 87°44' W. 18 lks. dist. marked T. 4 S. R. 23 E. S. 24 B.T.
A cedar 11 ins. diam. bears N. 15°08' W. 22 lks. dist marked T. 4 S. R. 23 E. S. 13 B.T.
Land precipitous Canyon and high Mountain
Soil 4th rate - mostly ledges.
Cedars and piñon pines on N. 15.46 chs
Mountainous on 80.00 chs

North bet. secs. 13 & 18

Ascend
12.00 Ridge 100 ft. high bears NE. & SW.
20.50 Gulch 100 ft deep drains SW.
32.00 Ridge 150 ft high bears NE. & SW.
40.00 Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
A pine 8 ins. diam. bears N. 15°10' W. 25 lks. dist marked 1/4 S. 13 B.T.
A cedar 10 ins. diam bears S. 44°30' E. 40 lks. dist. marked 1/4 S. 18 B.T.
50.00 Gulch 200 ft. deep drains SW.
65.00 Ridge spur 200 ft. high bears SW.
74.75 Gully 25 ft. deep drains SW.

East Boundary T. 4 S. R. 23 E.

chs.	
80.00	Set a sandstone 30×10×9 ins. set 22 ins. in the ground for cor. to secs 7. 12. 13 & 18, marked 2 notches on N. and 4 on S. edges from which A piñon 10 ins diam bears N. 63° E. 36 lks. dist. marked T. 4 S. R. 24 E. S. 7 B.T. A piñon 6 ins. diam. bears S. 43° E. 48 lks dist. marked T. 4 S. R. 24 E. S. 18 B.T. A piñon 8 ins. diam bears S. 67° 15' W. 23 lks dist. marked T. 4 S. R. 23 E. S. 13 B.T. A piñon 10 ins. diam. bears N. 58° 05' W. 37 lks. dist. marked T. 4 S. R. 23 E. S. 12 B.T. Land high broken Mountain. Soil 4th rate – rocky Piñon and cedars on 80.00 chs Mountainous on 80.00 chs.
	May 14th 1900. At 7 h. a.m. L.m.t. I set off 40° 29' N. on the lat. arc and 18° 38' N. on the decl. arc. and determine a true Meridian with the Solar at the cor. to secs 7. 12. 13 & 18 Thence I run North bet secs. 7 & 12 Ascend in dense piñon and cedar
15.00	Summit of N. rim of Black Mountain 200 ft high bears E. & W. – Descend.
21.00	Creek 150 ft. deep drains N. 70° W.
25.00	Ridge spur 75 ft. high bears N. 70° W.
29.00	Rocky canyon 150 ft. deep drains N. 70° W.
40.00	Set a sandstone 20×10×8 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which A pine 10 ins. diam bears N. 12° E. 50 lks. dist. marked 1/4 S. 7 B.T. A pine 10 ins. diam. bears N. 44° 15' W. 18 lks. dist. marked 1/4 S. 12 B.T.
44.00	Ridge 200 ft. high bears E. & W.
69.00	Wash 15 lks. wide 6 ft. deep drains NE.
75.00	Wash 15 lks. wide 8 ft. deep drains NE.

East Boundary of T. 4 S. - R. 23 E.

chs.	
80.00	Set a sandstone 18 x 8 x 4 ins. 12 ins. in the ground for cor. to secs 1. 6. 7 & 12 marked 5 notches on S and 1 on N edges from which
	A cedar 10 ins. diam bears N. 85° 25' E. 50 lks. dist. marked T. 4 S. R. 24 E. S. 6 B.T.
	A cedar 6 ins. diam. bears S. 32° 10' E. 65 lks. dist. marked T. 4 S. R. 24 E. S. 7 B.T.
	A piñon 9 ins. diam. bears S. 46° 45' W. 73 lks. dist. marked T. 4 S. R. 23 E. S. 12 B.T.
	A cedar 6 ins. diam. bears N. 67° 20' W. 27 lks. dist. marked T. 4 S. R. 23 E. S. 1 B.T.
	Land high broken Mountains
	Soil 3rd rate, rocky.
	Piñon and cedar on 80.00 chs
	Mountainous on 80.00 chs

North bet. secs. 1 & 6

8.25	Ridge spur 75 ft. high bears N.E.
23.00	Ridge 80 ft. high bears E. & W.
30.00	Wash 15 lks. wide 8 ft. deep drains N.E.
35.00	Wash 15 lks. wide 8 ft. deep drains N.E.
40.00	Set a sandstone 18 x 8 x 8 ins. 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face from which
	A cedar 6 ins. diam bears S. 27° 10' E. 74 lks. dist. marked 1/4 S. 6 B.T.
	A cedar 4 ins. diam. bears N. 29° 20' W. 13 lks. dist. marked 1/4 S. 1 B.T.
48.00	Wash 10 lks. wide 6 ft. deep drains N.E.
52.00	N.E. point of ridge 30 ft high
54.00	Heavy cedars
55.25	Wash 25 lks. wide 15 ft. deep drains East in bottom of broad hollow drains E.
56.75	Road bears E. & W.
57.75	Croppings of coal bear E. & W. at bottom of reef
	Ascend
61.00	Reef 50 ft. high bears E. & W.

East Boundary of T. 4 S. R. 23 E.

chs.	
65.00	Hollow 30 ft. deep drains E.
66.00	Small spring of good water bears W. 5.25 chs
67.00	Ridge 50 ft. high bears E. & W.
72.00	Wash 40 lks wide 20 ft. deep drains S. 80° E.
	80.00 chs. Set temp cor. to Tps. 3 & 4 S. Rgs 23 & 24 E. – After running the N. Bdy of this Tp. at
75.64	Set permanent cor. to Tps. 3 & 4 S. Rgs 23 & 24 E. for description of which see field notes of N. Bdy T. 4 S. R. 23 E.
	Land broken hills
	Soil 2nd and 3rd rate, rocky.
	Dense cedars on S. 54.00 chs
	Mountainous or dense cedars on 75.64 chs
	March 14th 1900

For general description see end of field notes of Subdivisions of this Tp.

Edgar F. Harmston
U. S. Dep. Surveyor.

North Bdy of T. 4 S. R. 23 E.

Chs.

Survey commenced May 14th 1900 with instrument described in Book "A".

From the temp cor. to Tps. 3 & 4 S. Rgs. 23 & 24 E. Salt Lake Meridian just set I run West on a random line setting temp. sec. and 1/4 sec. cors at every 40.00 and 80.00 chs.

At 5 miles 79 chs and 83 chs. I intersect the line bet. Rgs. 22 & 23 E. 4.36 chs N. of cor. to Tps. 3 & 4 S. Rgs. 22 & 23 E. established in this survey.

Conforming to special instructions accompanying this contract I now abandon my random line and beginning at said cor. of Tps. 3 & 4 S., Rgs. 22 & 23 E. on May 15th 1900 I set off on the decl. arc 18° 54' N. and at 12 h. m. l. mt. observe the sun on the Meridian the resulting lat. is 40° 30' N.

Thence I run
East on a true line
bet. secs. 6 & 31

7.20 Brush Creek 50 lks. wide 2 ft. deep flows S.

11.50 J. P. Jensen's wire fence bears NW. & SE.

17.00 Enter bench 50 ft. high bears N. & S.

25.00 Hollow 30 ft. deep bears S. 10° W.

30.50 Hollow 25 ft. deep drains SW.

39.83 Set a sandstone 14 x 10 x 8 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. –

Pits impracticable

59.50 Ridge 100 ft. high bears N. & S.

68.50 Hollow 50 ft. deep drains S. 15° W.

76.50 Hollow 50 ft. deep drains S. 15° W.

79.83 Set a sandstone 20 x 10 x 9 ins. 15 ins. in the ground for cor. to secs. 5. 6. 31 & 32 marked 5 notches on E. and 1 on W. edges

6283
17

chs and raised a mound of stone 2 ft base 1½ ft. high W. of cor.
Pits impracticable
Land Cut hollow and broken bench
Soil 1st and 2nd rate alluvial & sandy
No timber
Mountainous on E 62.83 ch

East on a true line
bet. secs. 5 & 32

Ascend W. slope
8.00 Summit of ridge 100 ft high bears N.E. and S.W.
12.50 Spur from same 100 ft. high bears S.E.
25.00 Road bears N. 15° E. and S. 15° W. in bottom of hollow 75 ft. deep drains S. 15° W.
40.00 Set a sandstone 14 x 12 x 10 in. 9 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
45.00 Ridge 100 ft. high bears N.E. & S.W.
57.50 Hollow 100 ft. deep drains S.W.
60.00 Ridge open 100 ft. high bears S.W. 5.00 chs.
64.00 Hollow 40 ft. deep drains S.W.
70.00 Wagon road bears N.E. & S.W.
80.00 Set a sandstone 12 x 10 x 8 in. 8 in. in the ground for cor. to secs 4. 5. 32 & 33 marked 4 notches on E. and 2 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land mountainous S. slope
Soil 3rd rate, rocky.
No timber
Mountainous on 80.00 chs

North Bdy of T. 4 S. R. 23 E

chs

East on true line bet. secs 4 & 33.

8.00 Hollow 50 ft. deep drains S. 30 W.

22.00 Ridge spur. 75 ft. high bears S.W.

40.00 Set a sandstone 12 x 10 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

45.00 Wash 30 lks. wide 15 ft. deep drains S.W. in Broad hollow - now ascend in same.

50.00 Set a sandstone 18 x 9 x 4 ins. 12 ins. in the ground for cor. to secs. 3. 4. 33 & 34 marked 3 notches on E. & W. edges. and raised a mound of stone 2 ft base 1 1/2 ft. high W. of cor. Pits impracticable

15

Land broken

Soil 2nd rate, sandy

No timber

Mountainous on 45.00 chs.

May 16th 1900 - At 7 h. a.m. l.m.t. I set off 40° 30' N. on the lat. arc, 19° 06' N. on the decl. arc and determined with the Solar a true Meridian at the cor. to secs. 3. 4. 33 & 34

Thence I run

East on a true line bet. secs. 3 & 34

2.50 Wash 50 lks. wide 15 ft. deep drains N.W.

8.50 Wash 50 lks. wide 20 ft. deep drains N.W.

20.00 Leave broad hollow - Now over broken N. slope

40.00 Set a sandstone 14 x 10 x 4 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, dig pits 18 x 18 x 12 ins. E. & W. of stone 3 ft. dist and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.

50.00 Set a limestone 14 x 10 x 10 ins. 9 ins. in the ground for cor. to secs. 2. 3. 34 & 35 marked 2 notches on E. & 4 on W. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

60/30

North Bdy of T. 4 S. R. 23 E.

Chains	
	Pits impracticable
	Land broad hollow and broken N. slope
	Soil 2nd rate, sandy
	No timber
	Mountainous on E. 60.00 chs

East on true line bet. secs. 2 & 35

2.50	Ridge 75 ft. high bears N & S. – This is the Watershed between Brush Creek and Green River. Now descend on S. slope of hollow drains E.
30.00	Wash 8 lks. wide 1 foot deep drains NE.
39.00	Wash 8 lks. wide 1 foot deep drains N. 20° E.
40.00	Set a sandstone 12 x 10 x 8 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face dig pits 18 x 18 x 12 ins. E & W of stone 3 ft dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high N. of cor.
80.00	Set a sandstone 16 x 14 x 4 ins. 11 ins in the ground for cor. to secs. 1, 2, 35 & 36 marked 1 notch on E and 5 on W. edges; dig pits 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist. and raise a mound of earth 4 ft. base 2 ft high W. of cor.
	Land broken slopes
	Soil 2nd rate, sandy
	No timber
	Mountainous on 80.00 chs

East on true line bet. secs. 1 & 36

5.50	Ridge spur bears N.
24.00	Gully 15 ft. deep 50 lks. wide drains S. 85° E.
31.50	Same gully drains E.
35.00	Same gully drains N. 85° E.
40.00	Set a limestone 12 x 12 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor

chs. Hills impracticable
41.00 Thence Gully in above course S. 85° E.
49.50 Gully 15 ft. deep 50 lks. wide course S.E.
80.00 Intersect E. Bdry of Tp. 4.36 chs. South of the
Temp. Cor. to Tps. 3 & 4 S. Rgs. 23 & 24 E. which I
destroy and at point of intersection set a sandstone
16 x 12 x 6 ins. 11 ins. in the ground for permanent
Cor. to Tps. 3 & 4 S. Rgs. 23 & 24 E. marked, with [illegible] notches [illegible]
on each edge and raise a mound of stone
5 ft. base 1½ ft. high S. of cor.
Hills impracticable
Land broken bottom
Soil 2nd rate, sandy
No timber
Mountainous in 80.00 chs.

May 11th 1900

For general description see end of subdivisional notes of this Tp.

Edgar T. [illegible]
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 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 .....

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

-151

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 Surve General for ....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of .....

.....

.....

.....

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

..... 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 w the Manual of Surveying Instructions, and the special written instructions of the United States Surve General for ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will sr the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

For final approval see book W. 33 S. R 22 E

.....

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, October 25, 1902, 189

The foregoing field notes of the survey of the East & North Boundaries of Township 4 South Range 23 East of the Salt Lake Base & Meridian, Utah

executed by Adolphe Jessen & Edgar F. Harmston under ~~his~~ their contract No. 235, dated December 19, 1899, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson

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 office

.....

United States Surveyor Gen

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4—679.

BOOK A-339

FIELD NOTES

OF THE Re SURVEY OF THE

South Boundary

of

T. 4 S. – R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jesson and Edgar F. Harmston, United States Deputy Surveyor,

under ~~his~~ their Contract No. 235, dated December 19th, 1899

Survey commenced May 16th, 1900

Survey completed May 18th, 1900

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Retr. 5-00-53 ✓ low

Res low 79-00 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox Chainman

John Holmes "

Josiah Simons Moundman

Albert Kone Axeman

Craig Harmdon Flagman

For preliminary affidavits see book B Tp 3 S. R 21 E

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BOOK A-339

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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 t
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
.....

..... , *Moundme*

..... , *Moundme*

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 tru
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

RESURVEY OF S.BDY.OF T.4 S.R.23 E.

Survey commenced May 16th.1900,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 f arc,which is also the least count of the latitude and de - lination arcs.

I examine the adjustments of the instrument,and find th levels and line of collimation in adjustment.

My falling of 4.36 chs. N of the cor.of Tps. 3 and 4,S. Rs.22 and 23 E. S.L.B.& M., in the survey of the random line of that bdy.of this Tp. shows the necessity of retracing the south bdy.

Beginning at the cor.of Tps.4 and 5 S. Rs.23 and 24 E., heretofore described,I test my instrument on the true meridian established there by me from Polaris observations on May,13th.1900,and turning from it an angle of 90° to the west run

West on a blank line on the South Bdy.of Tp.

38.80 The original ¼ sec.cor.on N bdy.of sec.1 bears South 32 lks.

73.90 The original meander cor.of fracl.secs. 1 and 36 bears South 64 lks.dist.

83.97 Find no trace of original meander cor.of fracl.secs. 2 and 35.

118.24 Find what is without doubt,the original ¼ sec.cor.on N bdy. of sec.2,(although it does not fit description) it bears South 103 lks.dist.

157.77 The original cor.of secs.2,3,34,and 35,bears South 1.30 chs. dist.

197.40 The original ¼ sec.cor.on N bdy.of sec.3 bears South 1.73 chs.dist.

237.40 .he true cor.point to the cor.of secs. 3,4,33,and 34,falls near the break of left bank of Green river;no trace of it or of the original meander cor.on either bank can be found.

277.87 The original ¼ sec.cor.on N bdy.of sec.4,bears South 2.43 chs.dist.

317.57 The original cor.of secs. 4,5,32,and 33,bears S.2.78 chs.

Chains

357.57 The original $\frac{1}{4}$ sec.cor.on N bdy.of sec.5 bears South 3.13 chs.dist.

397.38 Find no trace of original cor.of secs. 5,6,31,and 32.

437.49 The original $\frac{1}{4}$ sec.cor.on N bdy.of sec.6 bears South 3.82 chs.dist.

480.53 Intersect West Bdy.of Tp., Ashley Guide Meridian,4.20 chs. N.0°20'W.from cor.of Tps.4 and 5 S.,Rs.22 and 23 E.,heretofo described.

Tp.5 S.R.23 E. has been subdivided so the Boundary must b re-established with the corners,as far as possible in their original position on the indicated,uniform course of N.89°30'E.

May 17th.1900:- At the cor.of Tps.4 and 5 S.Rs.22 and 23 E. I set off 19°22'N.on the decl.arc;and at 12h.m.,l.m.t., observe the sun on the meridian;the resulting latitude is 40° N.-- the meridian thus obtained agrees with the true meridi from observations on Polaris established at this cor.May,2d 1900.

Thence I run

N.89°30'E.on a re-survey line bet.secs. 6 and 31. Ascend.

13.00 Top of ridge spur 100 ft.above cor.projects N. Descend.

16.55 Bottom of hollow 30 ft.below spur,drains N. Ascend.

33.00 Top.of ridge spur,100 ft.above hollow,projects NE. Descend.

35.50 Upper Burns'Bench canal 12 lks.wide,$2\frac{1}{2}$ ft.deep,runs SE.

38.00 Enter Brush creek bottom bears SE and NW.

43.04 Intersect the original $\frac{1}{4}$ sec.cor.on N bdy.of sec.6,which is a cobblestone 5x10x8 ins.above ground,marked and witnessed as described by the surveyor general.

46.50 Road bears NW and SE.

56.50 Brush creek 25 lks.wide,2 ft.deep,gravelly bottom,banks 5 ft.high,rapid current,flows SE. Enter dense willow brush.

66.50 Leave dense undergrowth of willow brush;enter field.

82.00 Leave same.

83.00 The calculated distance for the re-establishment of the cor of secs.5,6,31,and 32,no trace of original cor.being found.

RESURVEY OF SOUTH BOUNDARY OF T 4 S.R 23 E.

Chains.

Set a sandstone 14x10x4 ins.9 ins.in the ground,for cor. of secs. 5,6,31,and 32,marked 5 notches on E;1 notch on W edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land broken ridges and creek bottom.

Soil 3d.and 1st.rate;rocky and alluvial.

No timber.

Dense undergrowth of willows on 10 chs.

Mountainous or dense undergrowth on 48.00 chs.

N.89°30'E.on a re-tracement line bet.secs. 5 and 32.

3.15 Brush creek 25 lks.wide,2 ft.deep,runs NE.

5.15 Brush creek 25 lks.wide,2 ft.deep,runs SE.

9.00 Leave Brush creek flat;ascend.

15.70 Enter bench 75 ft.above flat,bears NW and SE.

30.50 Bottom of hollow 25 ft.below bench,drains SE.

30.00 Bottom of hollow 30 ft.below level of bench,drains S.

39.96 Intersect the original ¼ sec.cor.on N bdy.of sec.5,which is a cobblestone 4x8x7 ins.above ground,marked and witnessed as described by the surveyor general. Ascend.

55.50 Enter higher bench 90 ft.above lower bench,bears NW and SE.

59.50 Bottom of hollow 20 ft.below level of bench,drains SE.

62.50 Leave higher bench;descend.

73.50 Wash 15 lks wide 2 ft.deep in bottom of hollow 50 ft. deep,drains SW. Ascend.

79.96 Intersect the original cor.of secs.4,5,32,and 33,which is a cobblestone 5x10x9 ins.above ground,marked and witnessed as described by the surveyor general.

Land mostly broken bench or mountain.

Soil 3d.rate;rocky.

No timber.

Mountainous land on E.63.50 chs.

N.89°30'E.on a re-survey line bet.secs.4 and 33.

RESURVEY OF SOUTH BOUNDARY OF T.4 S.R 23 E.

Chains

1.30 Bottom of hollow 40 ft.below cor.drains N 80° W. Ascend.

17.30 Road bears N and S.

20.00 Enter bench 50 ft.above hollow bears N and S.

24.00 Bottom of hollow 50 ft.below level of bench,drains SE. Ascend.

28.30 Top of bench spur,25 ft.above hollow,projects SE. Descend.

33.20 Enter Green river bottom,bears N and S.

39.70 Intersect the original ¼ sec.cor.on N.bdy.of sec.4,which is cobble stone 4x8x7 ins.above ground,marked and witnessed as described by the surveyor general.

41.30 Fence bears N 40.00 chs;S 15.00 chs.

45.30 Irrigating ditch 6 lks.wide,18 ins.deep,runs N.

46.80 Conrad Frank's house bears North 2.00 chs.dist.

49.80 Enter lucerne field,bears N and S.

69.80 Leave same.

71.76 Right bank of Green river,bears N and S. no trace of the original meander cor.of fracl.secs.4 and 33. Set a sandst 15x10x10 ins.10 ins.in the ground,for meander cor.of fracl. secs.4 and 33,marked MC on E face,with 6 grooves on N face, and raise a mound of stone 3 ft.base,1½ ft.high W of cor. Pits impracticable.

To find the dist.across the river,I set a flag on the Tp. line on East bank ,then measure a base N.0° 30'W.7.50 chs. to a point from which the flag bears S.48°[illegible]08'[illegible]" E. which gives for the dist.- tang.47°[illegible]38'[illegible]" x base or

1.00642 x 7.50 = 8.22 chs.

79.98 Left bank of Green river,course S. Bank 4 ft.high. slow current,about 5 ft.deep. No trace of MC.or cor.of secs. 3,4,33,and 34.

Set a limestone 18x15x9 ins.12 ins.in the ground,for cor. of secs.3,4,33,and 34,and meander cor.of fracl.secs.3,4,33 and 34,marked 3 notches on E;3 notches on W edges,and C on W face,with 6 notches on N edge;dig a pit 36x36x12 ins. S E of stone and raise a mound of earth 4 ft.base,2 ft.high E of cor.

Chains

[illegible]

Land broken and river bottom.

Soil 3d.and 1st.rate,rocky and sandy loam.

No timber.

Mountainous on W 33.20 chs.

May 18th.1900: At 7h.0m.,a.m.,l.m.t., I set off 40°25'N. on the lat.arc;19°33'N.on the decl.arc,and determine a me - idian with the solar at the cor.of secs.3,4,33,and 34,on S bdy.of Tp.4 S.,R.23 E.

Thence I run

N.89°30'E. on a retracement line bet.secs. 3 and 34.

Over rolling bench; through brush and greasewood.

35.75 Ascend.

39.85 On top of ridge 50 ft.high bearing N and S. Intersect the original ¼ sec.cor.on N bdy.of sec.3,which is a cobble stone 5x10x5 ins. above ground,marked and witnessed as described by the surveyor general.

79.82 Intersect the original cor.of secs. 2,3,34,and 35,which is a cedar post 4 ins.square,showing 2½ ft.above ground,marked and witnessed as described by the surveyor general.

Land rolling bench.

Soil 2d.rate,gravelly loam.

No timber.

Sage brush and greasewood on 79.82 chs.

N.89°30'E. on a re-survey line bet.secs. 2,and 35.

Across rolling bench;descend gradually,in underbrush.

39.53 At this point I find a sandstone 12x9x4 ins.set 8 ins.in the ground,marked ¼ on N face,with a mound of stone 2 ft. base,1½ ft.high N of cor. The description furnished me by the surveyor general calls for a charred cottonwood post with pits and mound of earth at this point,but there is no trace of that and I conclude the above described is the original ¼ sec.cor. on N bdy.of sec.2.

RESURVEY OF SOUTH BOUNDARY OF T 4 S R 23 E

Chains

44.25 Leave bench;descend 50 ft.to Green river bottom,bears NW and SE.

48.00 Fence bears N to Green river about 30 chs;and S.

59.00 Irrigating ditch 3 lks.wide,12 ins.dep,runs N.

73.80 Left bank of Green river, No trace of old meander cor.

Set a sandstone 18x10x6 ins.12 ins.in the ground,for meander cor.of fracl.secs. 2,and 35,marked MC on E face,6 notches on N edge;dig a pit 36x36x12 ins.8 ft.W of stone,and raise a mound of earth 4 ft.base,2 ft.high 4 ft.W.of cor.

79.25 Calculated distance to the original cor.point for secs.1,2, 35,and 36 falls in Green river.

Land rolling bench,and river bottom.

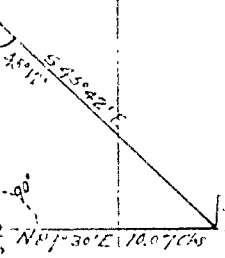
Soil 2d.and 1st.rate,gravelly and sandy loam.

No timber.

Sage brush and greasewood on 73.80 chs.

N.89°30'E. on a re-survey line bet.secs. 1 and 36.

From the meander cor.of fracl.secs. 2 and 35,just established by me in this survey,to find the dist.across the river I set a flag on the Tp.line at the original meander cor.of fracl.secs. 1 and 36.on east bank,then measure a base N.0°30'W. 10.00 chs. to a point from which the flag bears S.45°12'E. which gives for the dist.:-tang.45°12' x base or 1.007 x 10.00 chs.= 10.07 chs. being the whole dist.across the river;as my base is laid out from the meander cor.on W. bank of river,which is 5.45 chs. short of the true cor.point of secs. 1,2,35,and 36;the flag must therefore be 10.07 - 5.45 chs.or 4.62 chs.beyond the true cor.point.



4.62 Right bank of Green river course N;banks 12 ft.high;slow current;water about 5 ft.deep. Intersect the original meander cor.of fracl.secs. 1 and 36,which is a cobble stone 5x10x6 ins. above ground,marked and witnessed as described by the surveyor general.

7.00 Top of ridge 15 ft.high bears N and S.

RESURVEY OF SOUTH BOUNDARY OF T 4 S.R 23 E.

Chains

22.60 Road bears N and S.

39.72 Intersect the original ¼ sec.cor.on N bdy.of sec.1,which is a limestone 7x10x6 ins.above ground,marked and witnesse as described by the surveyor general.

53.00 Leave Green river bottom;ascend over broken hills.

69.50 Bottom of hollow 50 ft.deep,drains NW. Ascend.

75.00 Summit of ridge 50 ft.above hollow bears NW and SE.

78.52 Intersect the cor.of Tps.4 and 5 S. Rs.23 and 24 E. heretofore described.

Land river bottom and broken ridges.

Soil 1st.and 3d.rate,sandy loam and rocky.

No timber.

Mountainous on E. 25.82 chs.

Sage brush and greasewood on 78.52 chs.

-------- (May 18th.1900.

For general description see end of field notes of subdivision lines of this Tp.

Edgar F. Namston

U.S.Deputy Surveyor,

Boundaries of Tp.4 S.,R.23 E.,

Latitudes,Departures,and Closing Errors.

Desig-ted	True Bearing	Dist. Chains	Latitudes North	Latitudes South	Departures East	Departures West	
			chs.	chs.	chs.	chs.	
y Guide (y.Sec.36 (	N.0° 20'W.	79.80	79.80				
y.Secs. (13,12-1 (	North	400.00	400.00				
h Bdy.	East	479.83			479.83		
Bdy.	South	475.64		475.64			
h Bdy.	S.89°30'W.	480.53		4.19		480.51	
ergency					.62		
			479.80	479.83	480.45	480.51	
				479.80		480.45	

Errors in Latitude, - - - - - - - - - - .03

Errors in Departure, - - - - - - - - - - - - .06

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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

ng 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.*

For final affidavits see book T. Tp. 15 R. 23 E.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

parts or portions of the .....

.....

.....

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

..... 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

ral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

cribed and sworn to before me this .....

lay of ....., 189

SEAL

.....

.....

For final affidavits see book T. Tp. 16 R. 23 E.

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

.....

.....

.....

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

For final affidavits see book T. of P. S. Rec'd

.....
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, October 25, 1902, 189

The foregoing field notes of the survey of the south boundary Township 4 South Range 23 East of the Salt Lake Base and Meridian Utah

executed by Adolphe Jessen and Edgar F. Harmston under ~~his~~ their contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-339 -

K.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

AND

MEANDER LINES

TOWNSHIP 4 SOUTH,

RANGE 23 EAST

Of the SALT LAKE *Meridian,*

UTAH

AS SURVEYED BY

Edgar F. Harmston, *United States Deputy Surveyor,*

er his Contract No. 235, *dated* December 19th 1899 *190*

ey commenced September 28th *190*6.

ey completed October 4th *190*6

6—151

Soil sand and clay; 2d. rate.

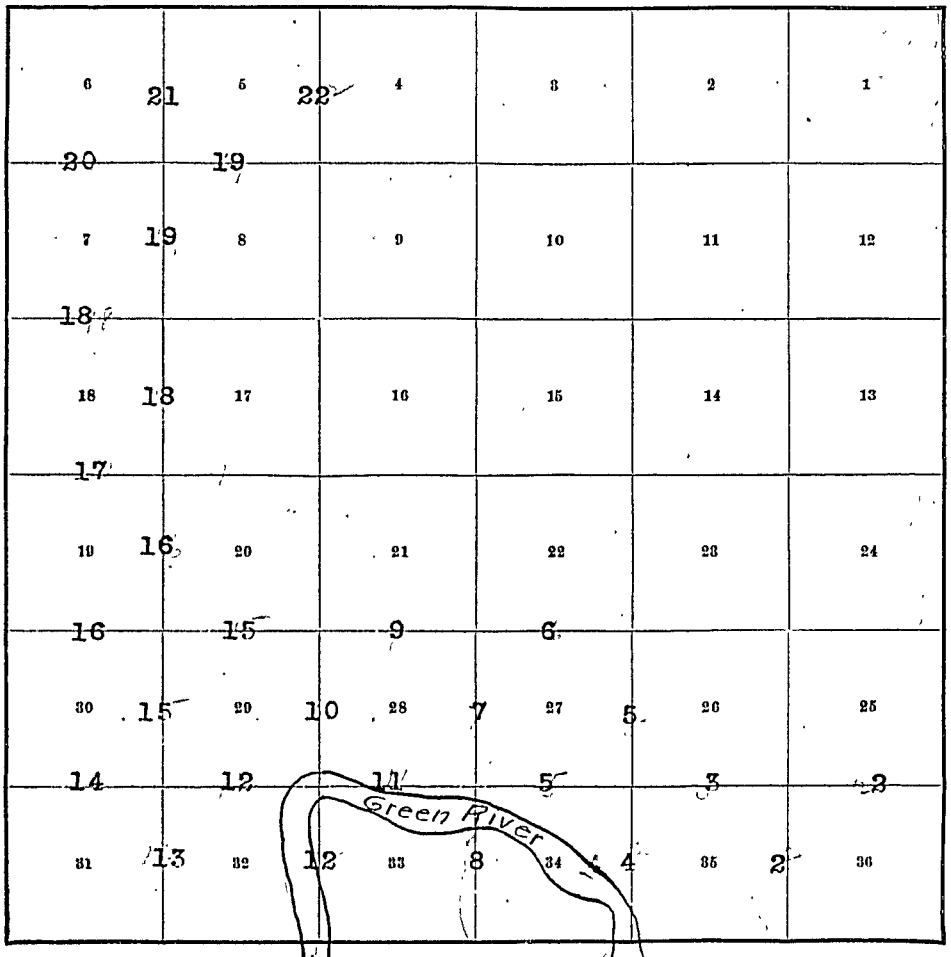
NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey,	Chainman.
Craig Harmston,	Chainman.
Mellette Harmston,	Moundman,
Bert Shisler,	Axman,
Bradner Bailey,	Flagman.

BOOK A-339

INDEX DIAGRAM.

Township 4 S., *Range* 23 E.



Meanders Page 23-27

6—151

Soil sand and clay; 2d rate.

PRELIMINARY OATHS OF ASSISTANTS.

We Charles L. Bailey ——— and — Craig Harmston,
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 assi measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surve the subdivision and meander lines of Tp.4 S., R.23 E., S.L.B.& M., Ut

Charles L. Bailey, Chain
Craig Harmston, Chain

Subscribed and sworn to before me this 10th. day of August, 1906. 189

SEAL

Ward E. Pack Jr
Notary Public.

xxx I, Mellette Harmston, ——— and
do solemnly swear that I will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given me, to the best of my skill and ability, in the surve the subdivision and meander lines of Tp.4 S., R.23 E., S.L.B.& M., Ut

Mellette Harmston, Moundm
———, Moundm

Subscribed and sworn to before me this 10th. day of August, 1906. 189

SEAL

Ward E. Pack Jr
Notary Public

xxx I, Bert Shisler, ——— and ———
do solemnly swear that I will well and truly perform the duties of axmen in the establishment of co and other duties, according to instructions given me, to the best of my skill and ability, in the surve the subdivision and meander lines of Tp.4 S., R.23 E., S.L.B & M., Ut

Bert Shisler, Axm
———, Axm

Subscribed and sworn to before me this 10th. day of August, 1906. 189

SEAL

Ward E. Pack Jr.
Notary Public.

I, Bradner Bailey, ———, 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 the subdivision and meander lines of Tp.4 S., R.23 E., S.L.B Utah.

Bradner Bailey, Flagm

Subscribed and sworn to before me this 10th. day of August, 1906. 189

SEAL

Ward E. Pack Jr
Notary Public.

Chains

Survey commenced September,28th,1906,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 lease count of the latitude and declination arcs.

I examine the adjustments of the instrument,and find the levels and the line of collimation in adjustment;then to test the solar apparatus,by comparing its indications,resulting from solar observations made during a.m.,and p.m., hours,with a meridian determined by observations on Polaris,I proceed as follows:-

At the cor.of Tps.4 and 5 S.,Rs.23 and 24 E.,latitude 40°25'N.,longitude 109°17'W.,I set off 40° 25' on the latitude arc,and 1°55'S on decl.arc,and,at 3h.,51m.,p.m.,l.m.t., determine with the solar a meridian and mark a point thereof on a peg firmly driven in the ground,5 chs.N of the cor.

At 7h.6m.,p.m.,by my watch,which is 3m. fast of l.m.t., I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N of my station. (September,28th.1906.

September,29th.: At 6h.5m.,a.m.,l.m.t., I lay off the azimuth of Polaris 1°34' to the west,and mark the meridian thus determined,by driving a nail in the peg set September 28th.on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 7h.51.m.,a.m.,l.m.t., I set off 40°25' on lat.arc; 2°11'S on decl.arc,and mark a point in the meridian determined with the solar,by a tack in the peg already set 5 chs. N of my station;this mark falls 0.3 ins.east of the meridian established by the Polaris observation.

The solar apparatus,by a.m.,and p.m., observations,defines positions for meridians,respectively about 0'16" west

Soil sand and clay;2d.rate.

Chains

and 0'16' east of the meridian established by the Pole
observations;therefore,I conclude that the adjustments
the instrument are satisfactory.

The magnetic bearing of the true meridian,at 18h.10m.,
is N.15°45'7.,the angle thus determined gives the mag.de
15°45'E.

The south bdy.of the Tp.being out of line,
I commence at the cor.of secs.25 and 36 on E.bdy.of Tp.
heretofore described.

Thence I run

West on a sectional correction line,bet.secs.25 and 36.

Descend along N slope of reef.

33.00 Enter pass at W end of reef;enter white sage and greasewo

35.09 Road bears NE and SW.

37.45 Red Wash,54 lks.wide,6 ft.deep,(dry) drains S.

39.95 Top of spur from reef,50 ft above wash,projects SE.

40.00 Set a limestone 24x14x4 ins. 18 ins.in the ground,for ¼
sec.cor.marked ¼ on N face,and raise a mound of stone 2
base 1½ ft.high N of cor. Pits impracticable.

Descend.

41.00 Now along N side of flat.

80.00 Set a limestone 20x9x3 ins.15 ins.in the ground,for cor.
of secs.25,26,35,and 36,marked 1 notch on E;1 notch on S
edges,and raise a mound of stone 2 ft.base,1½ ft.high W
of cor. Pits impracticable.

Land broken and level.

Soil sandy and rocky;2d.and 3d.rate.

No timber.

White sage and greasewood,on 47.00 chs.

Mountainous land on 41.chs.

The country north of secs.35 and 36 being worthless and
rocky I do not survey it.

Knowing I will intersect Green river within 80 chs.

I run

SUBDIVISION OF T. 4 S.R 23 E.

Chains

S.0° 1'E on a true line bet.secs.35 and 36.
Over rolling land through underbrush.

6.55 Road bears E and W.

9.05 Road bears E and W.

28.10 Red Wash 100 lks.wide,10 ft.deep,drains SW.

40.00 Set a sandstone 15x12x3 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

57.45 Bottom of hollow 30 ft.below cor. drains SW. Ascend.

61.00 To right bank of Green river;bank 15 ft.high.

Set a sandstone 16x8x6 ins.11 ins.in the ground,for meander and witness closing cor.of fracl.secs.35 and 36,marked M C on S;WC on N;1 groove on E face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.

No further progress can be made on this line,the balance including closing cor.of fracl.secs.35 and 36,on S bdy.of Tp.falls in the river.

Land rolling.

Soil,sandy loam and rocky;1st.and 3d.rate.

No timber.

Shadscale and greasewood,on 61.00 chs.

West on a sectional correction line bet.secs.26 and 35.
Over level ground in N edge of flat,in greasewood.

6.36 Wash 20 lks.wide,5 ft.deep,drains S.

40.00 Set a sandstone 16x10x4 ins.11 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and dig pits 18x18x12 ins.E and W of stone 3 ft.dist.and raise a mound of earth 3½ ft.base,1½ ft.high N of cor.

48.70 Wash 50 lks.wide,5 ft.deep,drains S 15°00'W.

61.00 Wash 5 lks.wide,2 ft.deep,drains S.

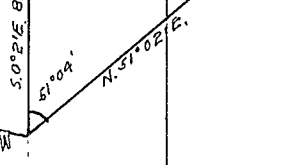
74.00 Wash 43 lks.wide,7 ft.deep,drains SW.

80.00 Set a sandstone 16x10x5 ins.11 ins.in the ground for cor. of secs.26,27,34,and 35,marked 2 notches on E;1 notch on Sedges,and raise a mound of stone 2 ft.base,1½ ft.high W.of cor. Pits impracticable.

Soil,sand and clay;2d.rate.

Chains	
	Land rolling.
	Soil sandy and rocky;3d.rate.
	No timber.
	Undergrowth,greasewood,on 30.00 chs.

	Knowing that I will not intersect the corner of secs.3,3
	34,and 35,within limits
	I run
	S.0° 2'E. on a true line bet.secs.34 and 35,over level land,in greasewood.
3.00	Road bears E and W.
4.20	Wash 48 lks.wide,10 ft.deep,drains SW.
5.33	Bend in same wash,from NW to SW.
7.82	To right bank of Green river,bank 3 ft.high.
	Set a sandstone 14x10x8 ins.10 ins.in the ground,for me der cor.of fracl. secs.34 and 35,marked MC on S;2 groov on E face,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.hi N of cor. Pits impracticable. from which
	A cottonwood 10 ins.diam.bears N.60°15'W,107 lks.dist. marked T 4 S.R 23 E.S 34 MC B T.
	No other bearing objects available.
	To determine the distance across,I set a flag on line on left bank of river;then measure a base N 89°58'E.10.00 chs.,to a point whence the flag bears S 51°02'W.,
	From the flag,the E end of base bears N 51°02'E.,by separate measurement of each angle they are found to be respectively 51°04';90°;and 38°56';their sum being 180°.
	Sin 51°04' : sin 38°56' ::10.chs : x
	making the dist.across the river,8.08 chs.
	7.82 chs. + 8.08 chs. = 15.90 chs.
15.90	To left bank of river.
	Set a sandstone 14x10x4 ins. 10 ins.in the ground,for meander cor.of fracl.secs.34 and 35,marked MC on N;2 gr on E face,and dig a pit 36x36x12 ins. 8 ft.S of stone,a raise a mound of earth 4 ft.base,2 ft.high S of cor.
40.00	Set a sandstone 20x15x6 ins.15 ins.in the ground,for $\frac{1}{4}$



Chains	
	sec.cor.marked ¼ on W face,and dig pits 18x18x12 ins.N a d S of stone 3 ft.dist.and raise a mound of earth 3½ ft.ba.e 1½ ft.high W of cor.
81.49	Intersect S bdy.of Tp.S 89°30'W. 3.23 chs.from cor.of se s. 2,3,34,and 35,which is a charred cottonwood 4 ins.square showing 3½ ft.above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a sandstone 15x6x6 ins.10 ins.in the ground for closing cor.of fracl.secs.34 and 35,marked 2 groove on E;4 grooves on W;and CC on N faces,and dig pits 24x18 12 ins.crosswise on each line,E and W 3 ft.and N of stone 7 ft. dist.and raise a mound of earth 4 ft.base 2 ft.high N of cor.
	I destroy all marks on cor.of secs.2,3,34 and 35,pertai ing to secs.34 and 35.
	Land level river bottom.
	Soil sandy loam;1st.rate.
	Greasewood,sage brush and some willows along river bank.
	No timber.

	September,29,1906: I set off 2°15' S. on the decl.arc,and a. 11h.50m.35s.,a.m.,l.m.t.,observe the sun on the meridian, and obtain on the latitude arc,the reading 40°36',which agrees with other data.
	Thence I run
	West on a sectional correction line,bet.secs.27 and 34.
	Descend. through undergrowth.
8.89	Bottom of hollow 10 ft.below cor.drains S. Ascend.
15.55	Road bears E and W. Descend.
17.12	Bottom of hollow 10 ft.below road,drains S. Ascend.
28.35	Wash 10 lks.wide,6 ft.deep,drains S.
40.00	Set a limestone 15x8x5 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on N face,and dig pits 18x18x12 ins.E and W of stone,3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high N of cor.
47.00	Mud Spring Wash,37 lks.wide,8 ft.deep,drains S.contains a
	Soil sand and clay;2d.rate.

Chains	
	stream of very muddy water 2 lks.wide,1 in.deep; dry bed
56.50	Enter dense squaw brush,bears E and W.
57.18	To right bank of Green river;bank 8 ft.high.
	Set a sandstone 15x12x8 ins.10 ins.in the ground,for meander cor.of fracl.secs.27 and 34,marked MC on W;1 notch on S edge,and raise a mound of stone 2 ft.base,1½ ft.high E of cor. Pits impracticable.
	Land level.
	Soil,sandy loam;1st.rate.
	No timber.
	Squaw brush,sage brush,and greasewood;no grass.

	N.0° 2'W.bet.secs.26 and 27;over flat in scattering sage.
13.00	Leave flat;ascend precipitous S slope.
17.00	Top of ridge spur,150 ft.above flat,projects SE. Descend
21.50	Bottom of gulch,75 ft.below spur,drains SE. Ascend.
32.00	Top of ridge spur,75 ft.above gulch,projects E. Descend
39.00	Bottom of gulch 150 ft.below spur,drains SE. Ascend.
40.00	Set a sandstone 24x18x6 ins.18 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 base,1½ ft.high W of cor. Pits impracticable.
40.50	Ascend precipitous S slope.
48.90	Top of sandstone reef,200 ft.above bottom of gulch,bears NW and SE. Descend.
80.00	Set a sandstone 18x15x4 ins.12 ins.in the ground,for cor of secs.22,23,26,and 27,marked 2 notches on E;2 notches S edges;dig pits 18x18x12 ins.in each sec.5½ ft.dist.and raise a mound of earth 4 ft.base,2 ft.high W of cor.
	Land mountainous.
	Soil sandy loam and rocky;1st.and 3d.rate.
	No timber.
	Scattering sage brush.
	Mountainous land on N 67.chs.
	The country north of secs.27,28,and 29,being worthless & hard of access,I do not survey it.

SUBDIVISION OF T.4 S.R.23 E.

Chains

Test on a true line bet.secs.22 and 27.

Descend gradually over sandy slope, in scrub sage.

40.00 Set a sandstone 12x10x4 ins.8 ins.in the ground, for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on N face, and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.

63.00 Bottom of box canyon, 50 ft.below cor.drains SE. Ascend.

63.50 Top of rocky ridge spur 50 ft.above bottom of canyon, projects SE. Descend.

75.00 Head of hollow drains SE from sandstone butte.

Now across S slope of butte; enter scattering cedars.

80.00 True cor.point falls on precipitous SW slope of sandstone butte; cut cross (x) at true cor.point, with 3 grooves on E; 2 grooves on S of cross, for cor.of secs.21,22,27 and 28, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high at foot of slope, from which

A cedar 12 ins.diam.bears S 20°00'E. 49 lks.dist.marked T 4 S.R 23 E.S 27 B T.

A cedar 6 ins.diam.bears S 37°30 W. 65 lks.dist.marked T 4 S.R 23 E.S 28 B T.

No other bearing trees available.

Land mountainous.

Soil, sandy and stony; 3d.rate.

Timber, scattering cedars.

Scrub sage brush.

Mountainous land on 80.chs.

Knowing that my line will intersect Green river within 80.chs.

I run

S.0° 2'E.on a true line bet.secs.27 and 28.

Descend in scattering cedars along E side of rocky gulch.

15.00 Bottom of gulch 75 ft.below cor.drains SE. Ascend.

19.00 Precipice 25 ft.high bears E and W. Ascend.

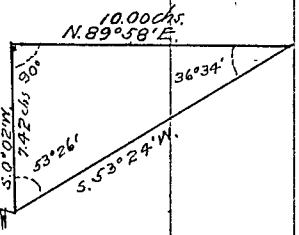
21.00 Top of ridge spur, 75 ft.above bottom of gulch projects E. Descend; leave cedars.

Soil sand and clay; 2d.rate.

Chains	
34.50	Bottom of hollow,50 ft.below top of spur,drains SE.
	Ascend.
40.00	Set a sandstone 15x14x3 ins.10 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft. base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
52.50	Top of reef 100 ft.above hollow,bears E and W. Descend.
61.00	Bottom of gulch 50 ft.below top of reef,drains SE. Asc
65.50	Top of ridge spur,100 ft.above gulch,projects SE. Desc
74.50	Road bears E and W.
75.26	To right bank of Green river;bank 10 ft.high.
	Set a sandstone 16x8x4 ins.12 ins.in the ground,for meander cor.of fracl.secs.27 and 28,and witness cor.of fracl secs.27,28,33,and 34,marked MC and 1 groove on S;3 groov on E and WC on N faces,raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
	Land mountainous.
	Soil,rocky;3d.rate.
	Timber,scattering cedars on N 21 chs.
	No other vegetation.
	Mountainous land on 75.26 chs.

(September,29th.1906.

October,1st.:At 7h.20m.,a.m.,l.m.t., I set off 40° 26'on lat.arc;3°57' S on decl.arc;and determine a meridian wit the solar at MC on right bank of Green river,bet.secs. 27 and 28.



To determine the dist.across,set a flag on line on left bank of river;then measure a base line N 89°58'E. 10.chs to a point,whence the flag bears S 53°34'W., From the the E end of base line bears N 53°24'E., by separate measurements of each angle,they are found respectively 36°34 90°;and 53°26';their sum being 180°.

$$\frac{\text{Sin } 36°34'}{\text{Sin } 53°26'} \times 10.\text{chs.} = 7.42 \text{ chs.}$$

80.00 -- 75.26 = 4.74 chs. from MC bet.secs.27 and 28, right bank of river to true cor.point.

Chains	
	Then 7.42 chs,--4.74 chs. =
2.68	To left bank of river.
	Set a quartzite 15x10x6 ins.10 ins.in the ground,for meander cor.on left bank of river,bet.fracl.secs.33 and 34, marked MC on N face,3 notches on E edge,and dig a pit 36x36 x12 ins. 8 ft.S of cor. and raise a mound of earth 4 ft. base 2 ft.high S of cor.
	Now over level bottom,near left bank of river.
40.00	Set a sandstone 12x10x6 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and dig pits 18x18x12 ins.N and S of stone,3 ft.dist.and raise a mound of earth 3½ ft. base 1½ ft.high W of cor.
44.88	To left bank of river;bank 8 ft.high.
	Set a sandstone 15x8x6 ins.10 ins.in the ground,for meander cor.of fracl.secs.33 and 34,marked MC on S face;3 grooves on E face;dig a pit 36x36x12 ins.8 ft.N of stone, and raise a mound of earth 4 ft.base,2 ft.high N of cor.
	Land level river bottom.
	Soil,sandy loam and rocky;1st.and 2d.rate.
	No timber.
	Sage brush,greasewood,and willow brush,on 44.88 chs.

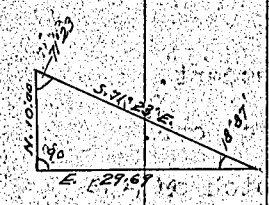
	West on sectional correction.line,bet.secs. 21 and 28.
	Descend,in scattering cedars.
7.00	Bottom of hollow 40 ft.below cor.drains S. Ascend.
13.50	Top of bare sandstone hill 150 ft.above hollow. Descend.
19.50	Bottom of gully 150 ft.below top of hill,drains S. Ascend.
30.00	Top of sandy spur,50 ft.above gully,projects S. Descend.
40.00	Set a sandstone 18x14x3 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears S 44°45'E. 82 lks.dist.marked ¼ S 28 B T.
	A cedar 12 ins.diam.bears N 86°00'E. 11 lks.dist.marked ¼ S 21 B T.
	Soil sand and clay;2d.rate.

Chains	
41.00	Bottom of rocky hollow,100 ft.below top of spur,drains S 15° 00'E. Ascend.
49.50	Top of sandy spur,100 ft.above hollow projects S. Desc
60.00	Enter hollow,drains S. Spring bears S 6 chs. drains SW.
66.00	Wash 15 lks.wide,5 ft.deep,drains S 15° W.
67.50	Wash 15 lks.wide,5 ft.deep,drains S 10° W.
70.00	Leave hollow,ascend.
72.50	Top of sand ridge 50 ft.above hollow,bears N and S.
80.00	Set a sandstone 18x10x6 ins.12 ins.in the ground,for cor secs.20,21,28 and 29,marked 4 notches on E;2 notches on edges, from which
	A cedar 10 ins.diam.bears N 19°00'E. 42 lks.dist.marked T 4 S.R 23 E.S 21 B T.
	A cedar 10 ins.diam.bears S 86°40'E. 64 lks.dist.marked T 4 S.R.23 E.S 28 B T.
	A cedar 7 ins.diam.bears S 53°10'W. 132 lks.dist.marked T 4 S.R.23 E.S 29 B T.
	A cedar 9 ins.diam.bears N 53°32'W. 143 lks.dist.marked T 4 S.R 23 E.S 20 B T.
	Land mountainous.
	Soil very sandy,3d.rate.
	Timber,scattering cedars on 80 chs.
	Mountainous land on 80.chs.

	S.0° 34'E. on a true line bet.secs. 28 and 29, Ascend in cedars.
33.00	Top of ridge spur 50 ft.above cor.projects W. Descend. Leave cedars.
40.00	Set a sandstone 14x10x5 ins.9 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 3 ft.base,1½ ft.high W of cor.
43.00	Gully 12 ft.deep,drains W.
48.50	Gully 25 ft.deep,drains W.
53.00	Gully 15 ft.deep,drains W. Ascend.
60.00	Top of rocky ridge 100 ft.above gullies bears E and W.

Chains	
	Descend.
62.00	Enter sage brush bench,bears N and S. Gradual descent.
80.00	Set a sandstone 18x12x9 ins.12 ins.in the ground,for cor. of secs.28,29,32,and 33,marked 4 notches on E;1 notch on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor.
	Land broken and rolling.
	Soil,sandy and rocky;1st.and 3d.rate.
	Timber,cedars on 33 chs.
	Sage brush on 18 chs.
	Mountainous land on 80.chs.
	East on a true line between secs.28 and 33. secs.28 and 33.
	Over sage brush bench.
24.00	Leave bench ascend to ridge spur.
27.50	Top of ridge spur 30 ft.above bench;projects SE. Descend.
32.50	Bottom of hollow,75 ft.below spur,drains SE. Ascend.
40.00	Set a sandstone 14x9x6 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor.
	On top of ridge spur,75 ft.above hollow,projects SE.
	Descend.
49.00	Bottom of hollow 100 ft.below spur,drains SE. Ascend.
53.00	Top of ridge spur 75 ft.above hollow,projects SE. Descend.
57.50	Bottom of hollow 50 ft.below spur,drains SE. Ascend.
62.00	Top of ridge spur,50 ft.above hollow,projects SE. Descend.
67.00	Road bears SW. and NE.
73.15	To right bank of Green river;bank 12 ft.high.
	Set a sandstone 18x14x5 ins.12 ins.in the ground,for meander cor.of fracl.secs.28 and 33,marked 1 groove on S ;HC on E face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor.
	Then to determine the dist.across bend in river,I set a flag at the meander cor.of fracl.secs. 27 and 34,on right bank of river;then measure a base line N 10.chs.to a point whence the flag bears S 71°23'E., From the flag the N end
	Soil,sand and clay;2d.rate.

SUBDIVISION OF T.4 S.,R.23 E.



Chains	
	of base bears N 71°23'W., by separate measurement of angle they are found to be respectively 90°;71°23';and 18°37';their sum being 180°. Then,to compute the dist. across the bend in river,as follows:-
	$\frac{\text{Sin } 71°23'}{\text{Sin } 18°37'}$ x base = 29.69 chs.
	80.00 chs.-- 57.18 chs. = 22.82 chs.
	29.69 chs. -- 22.82 chs. = 6.87 chs.
	80.00 chs. + 73.15 chs.=80.02 chs.
	Land level and broken.
	Soil sandy and rocky;1st.and 3d.rate.
	No timber.
	Sage brush and shadscale on 73.15 chs.

	October,1st.1906: I set off 3°2'S on the decl.arc,and at 11h.50m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the latitude arc,the reading 40°26',which agrees with other data.
	Knowing that I will not intersect the cor.of secs.4,5, 32,and 33,within limits
	I run
	S.0°3'E.on a true line bet.secs. 32 and 33.
	Descend gradually over bench,bears N and S.in sage brush
26.00	Road bears NW and SE.
40.00	Set a sandstone 12x10x6 ins.8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,dig pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high W of cor.
50.00	Bottom of hollow 20 ft.below cor.drains SW. Ascend.
50.75	Re-enter bench.
55.50	Leave bench;descend.
56.00	Bottom of hollow,30 ft.deep,drains SW. Ascend.
56.75	Re-enter bench.
59.75	Leave bench;descend.
60.00	Bottom of hollow,25 ft.deep,drains SW. Ascend.
60.80	Re-enter bench.
71.[illegible]	Leave bench;descend.

Chains	
71.50	Bottom of hollow 25 ft.deep,drains W. Ascend.
72.10	Re-enter bench.
80.85	Bottom of hollow 25 ft.deep,drains W. Ascend.
81.40	Re-enter bench.
82.86	Intersect S bdy.of Tp.2.43 chs.W.S.89°30'W.of cor.of secs 4,5,32, and 33,which is a cobble 5x10x9 ins.above ground,marked, and witnessed as described by the surveyor general.
	At intersection,set a sandstone 12x10x4 ins.8 ins.in the ground,for closing cor.of secs.32 and 33,marked 8 groove on W;4 grooves on E ;CC on N faces,and raise a mound of stone 2 ft.base 1½ ft.high N of cor.
	I destroy all marks on cor.of secs.4,5,32,and 33,pertaining to secs.32 and 33.
	Land broken bench.
	Soil sandy,1st.rate.
	No timber.
	Sage brush and shadscale.on 82.86 chs. Mountainous land on 82.86 chs.
	West on a sectional correction line bet.secs.29 and 32.
	Descend gradually over bench in shadscale and white sage.
11.25	Road bears NW and SE.
35.00	Wash 40 lks.wide,8 ft.deep,drains SW. Ascend.
40.00	Set a sandstone 16x10x6 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
47.50	Top of ridge spur,25 ft.above wash,projects S. Descend.
51.00	Bottom of hollow 25 ft.below spur,drains S. Ascend.
54.00	Top of ridge spur 25 ft.above hollow,projects S. Descend.
56.00	Bottom of hollow 25 ft.below spur,drains S 15°E. Ascend.
	Now over broken S slope.
79.00	Wash 20 lks.wide,4 ft.deep,drains S.
80.00	Set a sandstone 20x12x4 ins. 15 ins.in the ground,for cor. of secs.29,30,31,and 32,marked 5 notches on E;1 notch on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil sand and clay;2d.rate.

Chains	
	No timber.
	Shadscale and white sage on 80.00 chs.
	Rolling land on 80.chs.

	Knowing that I will not intersect the cor.of secs.5,6,31 and 32,within limits
	I run
	S.0° 4'E.on a true line bet.secs.31 and 32.
	Descend.over broken land,in sage brush and some shadscal
9.50	Wash 10 lks.wide,4 ft.deep,drains S 75° E.
26.00	Wash 20 lks.wide,5 ft.deep,drains E. Ascend.
39.00	Enter bench 30 ft.above wash,bears E and W.
40.00	Set a sandstone 14x9x6 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.
51.00	Leave bench;descend to lower bench.
67.00	Leave lower bench;descend.
73.50	Enter Brush creek bottom;leave sage brush,enter greasewo
83.04	Intersect S bdy.of Tp.S 89°30'W. 2.39 chs.from cor.of se 5,6,31,and 32,which is a sandstone 5x10x4 ins.above grou heretofore described.
	At intersection,set a sandstone 15x10x6 ins.10 ins.in t ground,for closing cor.of secs.31 and 32,marked 1 groove on W;5 grooves on E;00 on N faces;dig pits 24x18x12 ins. crosswise on each line E and W 3 ft.and N of stone 7 ft. dist.and raise a mound of earth 4 ft.base,2 ft.high N of I destroy all marks on cor.of secs.5,6,31 and 32,pertain to secs.31 and 32.
	[illegible]
	[illegible]
	Land broken bench and level bottom.
	Soil,loam and stony;1st.and 3d.rate.
	No timber.
	Sage brush and greasewood;some shadscale.
	(October,1st.1906.

	October,2d.:At 7h.50m.,a.m.,l.m.t., I set off 40°26' on

Chains	
	lat.arc;3°21' S on decl.arc,and determine a meridian with the solar at the cor.of secs.29,30,31,and 32.
	Thence I run
	West on a sectional correction line bet.secs.30 and 31.
	Ascend over broken S slope,in sage brush and scattering greasewood.
25.00	Top of ridge spur,50 ft.above cor.projects S 30° W.
	Descend.
32.50	Bottom of hollow,50 ft.below spur,drains S. Ascend.
40.00	Set a sandstone 15x10x8 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor.
43.50	Top of ridge spur,75 ft.above hollow,projects S. Descend.
50.00	Bottom of hollow,75 ft.below spur,drains S 15° W. Ascend.
55.00	Top of ridge spur,75 ft.above hollow,projects S 15° W.
	Descend.
63.50	Bottom of hollow,75 ft.below spur,drains S 10° W.
	Ascend.
73.00	Top of ridge spur,75 ft.above hollow,projects S 2 chs.
80.22	Intersect W bdy.of Tp.3.80 chs.N of cor.of secs.25,30,31, and 36,which is a sandstone 7x11x6 ins.above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a sandstone 18x10x4 ins.12 ins.in the ground,for closing cor.of secs.30 and 31,marked 1 groove on S;5 grooves on N;CC on E faces,and raise a mound of stone 2 ft.base,1½ ft.high E of cor.
	I destroy all marks on cor.of secs.25,30,31,and 36,pertaining to secs.30 and 31.
	Land broken.
	Soil clay and sandy loam;2d.and 3d.rate.
	No timber.
	Shadscale,scrub sage and greasewood,dense on 25.chs.
	Mountainous land on 80.22 chs.

	N.0°4'W. bet.secs.29 and 30.
	Ascend. over broken land,in shadscale and scrub sage brush.
18.00	Top of rocky roof 100 ft.above cor.bears E and W. Descend.

Chains	
29.00	Bottom of hollow,75 ft.below ridge,drains E. Ascen
38.50	Top of ridge spur,75 ft.above hollow,projects E. De
40.00	Seta sandstone 15x11x4 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone base 1½ ft.high W of cor.
54.00	Bottom of hollow 80 ft.below spur,drains SE. Ascend. Now over broken SE slope.
67.50	Wash 20 lks.wide,10 ft.deep,drains SE.
80.00	Set a sandstone 24x12x6 ins.18 ins.in the ground,for co of secs.19,20,29,and 30,marked 5 notches on E;2 notches on S,edges and raise a mound of stone 2 ft.base 1½ ft. high W of cor.
	Land broken.
	Soil rocky;3d.rate.
	No timber.
	Shadscale and scrub sage.
	Mountainous land on 80.chs.

	East on a random line bet.secs.20 and 29.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N and S line 12 lks.S of cor.of secs.20,21,28, and 29.
	Thence I run
	S 89°55'W.bet.secs.20 and 29,in cedars,over rolling land.
5.50	Gully 6 ft.deep,drains SW.
10.00	Gully 8 ft.deep,drains SW.
15.50	Rocky ravine 10 ft.deep,drains S 10° W.
22.50	Gully 10 ft.deep,drains S.
40.05	Set a sandstone 16x12x5 ins.11 ins.in the ground,for ¼ se cor.marked ¼ on N face, from which
	A cedar 15 ins.diam.bears N 15°20'W. 23 lks.dist.marked ¼ S 20 B T.
	A cedar 9 ins.diam.bears S 30° 00'E. 3 lks.dist.marked ¼ S 29 B T.
56.00	Wash 10 lks.wide,3 ft.deep,drains S. Leave cedars,enter
58.50	Road bears NW and SE.

Chains

73.00 Wash 10 lks.wide,2 ft.deep,drains SW.

80.10 The cor.of secs.19,20,29 and 30.

Land rolling.

Soil mostly clay;2d.rate.

Timber,cedars on E 56 chs.

Sage brush and greasewood on 24.10 chs.

Knowing that I will not intersect the cor.of secs.19,24 25, and 30,within limits

I run

West on a true line bet.secs.19 and 30;over broken land in sage brush.

3.00 Wash 10 lks.wide,8 ft.deep,drains SE.

15.50 Wash 15 lks.wide,8 ft.deep,drains SE. Ascend.

25.00 Top of ridge 50 ft.above wash,bears NW and SE. Descend

35.50 Wash 15 lks.wide,10 ft.deep,drains SE. Ascend gradually.

40.00 Set a sandstone 18x10x6 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.

65.00 Leave flat;ascend precipitous E slope.

75.00 Top of reef 100 ft.above flat,bears N and S. Descend.

80.06 Intersect W bdy.of Tp.3.80 chs.N of cor.of secs. 19,24,25, and 30,hertofore described.

15.06
65.00

At intersection,set a sandstone 28x8x3 ins.21 ins.in the ground,for closing cor.of secs.19 and 30,marked 2 grooves on S;4 grooves on N;and CC on E faces,and raise a mound of stone 2 ft.base,1½ ft.high E of cor.

I destroy all marks on cor.of secs.19,24,25,and 30,pertaining to Secs.24 and 25.

Land broken.

Soil sandy and rocky;1st.and 3d.rate.

No timber.

Sage brush and shadscale.

Mountainous land on 15.06 chs.

October 2d.1906: I set off 3°25'S on the decl.arc,and at 11h.49m.30s. a.m.,l.m.t., observe the sun on the meridian,

Chains	
	and obtain on the lat.arc,the reading 40°27',which agr
	with other data.
	Thence I run
	N.0° 4'W. bet.secs.19 and 20.
	Descend through underrowth.
12.50	Bottom of hollow 25 ft.below cor.drains SW. Ascend.
14.00	Top of sandy spur,20 ft.above hollow projects SW. Desc
16.00	Bottom of hollow 15 ft.below spur,drains SW. Ascend.
29.50	Road bears NW and SE.
38.50	Bottom of hollow 10 ft,below road,drains SW. Ascend.
40.00	Set a sandstone 16x10x6 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
51.00	Gully 6 ft.deep,drains SW. Ascend.
57.00	Top of sand ridge 25 ft.above gully,bears NE and SW. Descend.
58.50	Bottom of hollow,15 ft.below ridge drains SW. Ascend.
80.00	Set a sandstone 18x14x6 ins.12 ins.in the ground,for cor.o secs.17,18,19,and 20,marked 5 notches on E;3 notches on S edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil,rocky,2d.rate.
	No timber.
	Sage brush and shadscale on 80 chs.
	The country East of sec.19 being worthless and rocky,I do not survey it.

	Knowing that I will not intersect the cor.of secs.13,18,19, and 24 within limits
	I run
	West on a true line bet.secs.18 and 19.
	Over rolling land,in sage brush and shadscale.
16.50	Road bears NW and SE. Descend gradual slope.
40.00	Set a sandstone 18x12x4 ins.12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Chains

ft.base,1½ ft.high N of cor. Pits impracticable.

65.00 Wash 30 lks.wide,8 ft.deep,drains S.

71.50 Foot of reef;ascend precipitous E slope.

78.50 Top of reef 150 ft.above wash,bears N and S. Descend.

79.99 Intersect W bdy.of Tp.Ashley Guide Meridian,3.82 chs.N of
8.49 cor.of secs. 13,18,19,and 24,heretofore described.
71.50

At intersection,set a limestone 18x10x5 ins. 12 ins.in the ground,for closing cor.of secs. 18 and 19,marked 3 grooves on S;3 grooves on N;CC on E faces,and raise a mound of stone 2 ft.base,1½ ft.high E of cor. Pits impracticable.

I destroy all marks on cor.of secs. 13,18,19,and 24,pertaining to secs.18 and 19.

Land rolling and broken.

Soil,sandy and rocky;2d.and 3d.rate.

No timber.

Sage brush and shadscale on 79.99 chs'

Mountainous land on 8.49 chs.

N.0° 4'W.bet.secs. 17 and 18.

Descend in undergrowth.

23.50 Bottom of hollow 10 ft.below cor.drains W. Ascend.

28.00 Top of ridge 10 ft.above hollow,bears E.and W. Descend.

31.00 Gully 8 ft.deep,drains N.75°W. Ascend.

40.00 Set a sandstone 16x14x6 ins. 11 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

67.00 Sand wash 20 lks.wide,5 ft.deep,drains S 80° W.

80.00 Set a limestone 15x10x9 ins.10 ins.in the ground,for cor. of secs. 7,8,17,and 18,marked 5 notches on E;4 notches on S edges;dig pits 18x18x12 ins.in each sec.5½ ft.dist.and raise a mound of earth 4 ft.base,2 ft.high W of cor.

Land rolling.

Soil,rocky;2d.rate.

Undergrowth,sage brush and shadscale on 80.00 chs.

No timber.

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ian and obtain on the lat.arc,the reading,40°29'25",which

SUBDIVISION OF T 4 S.R 23 E.

Chains	
	The country E of sec.18 being worthless,I do not survey it
	West on a true line bet.secs.7 and 18;over sandy flat. in sage brush and shadscale.
15.00	Road bears N and S.
20.00	Leave flat;ascend precipitous E slope.
30.33	Top of reef 150 ft.above flat,bears NW and SW. Descend.
39.50	Bottom of gulch 70 ft.below reef,drains NW. Ascend.
40.00	Set a sandstone 18x10x6 ins. 12 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 f base,1½ ft.high N of cor. Pits impracticable.
55.50	Top of ridge spur,75 ft.above gulch projects NW. Descend.
61.00	Head of gulch drains S 80° W. Descend.
79.85	Intersect W bdy.of Tp.Ashley Guide Meridian,3.85 chs.N of cor.of secs. 7,12,13,and 18,heretofore described.
	At intersection,set a sandstone 20x8x4 ins.15 ins.in the ground for closing cor.of secs.7 and 13,marked 4 grooves o S;2 grooves on N;CC on E faces,and raise a mound of stone 2 ft.base,1½ ft.high E of cor. Pits impracticable.
	I destroy all marks on cor.of secs. 7,12,13,and 18,pertain ing to secs.7 and 18.
	Land level and broken.
	Soil rocky;2d.and 3d.rate.
	No timber.
	Undergrowth,shadscale and sage brush on 79.85 chs.
	Mountainous land on 59.85 chs.
	(October,2d.1906.

	N.0° 04'W.bet.secs. 7 and 8.
	Across sandy flat,in sage brush and shadscale.
40.00	Set a sandstone 20x12x3 ins.15 ins.in the ground,for ¼ sec cor.marked ¼ on W face;dig pits 18x18x12 ins. N and S of stone,3 ft.dist.and raise a mound of earth 3½ ft.base,1½ high W of cor.
62.50	Bottom of hollow 40 ft.below flat,drains N 75°W. Ascend.
66.00	Top of ridge spur 50 ft.above hollow,projects N 70° W. Descend.
69.50	Bottom of hollow 50 ft.below spur,drains N 80° W. Ascend.
75.00	Enter bench bears E.and W. 50 ft.above hollow.

Chains

80.00 Set a sandstone 20x16x9 ins.15 ins.in the ground,for cor of secs.5,6,7,and 8,marked 5 notches on S;5 notches on E edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land level and rolling.

Soil,sandy and rocky;2d.and 3d.rate.

No timber.

Undergrowth,sage brush and shadscale.

The country east of sec.7 being without value,I do not survey it.

October,3d. At 8h.49m.,a.m.,l.m.t., I set off 40°29' on lat.arc;3°45'S.on decl.arc,and determine a meridian with the solar at the cor.of secs. 5,6,7,and 8.

Thence I run

East on a true line bet.secs. 5 and 8;through sage brush

1.50 Leave bench;descend.

8.00 Bottom of hollow 30 ft.deep,drains N 20° W. Ascend.

11.00 Top of ridge spur,25 ft.above hollow,projects NW. Descend.

12.50 Bottom of hollow 20 ft.below spur,drains NW. Ascend.

15.50 Top of ridge spur,30 ft.above hollow,projects NW.Descend.

37.00 Gully 10 ft.deep,drains N 15° E.

40.00 Set a sandstone 20x14x9 ins.15 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

43.00 Gully 10 ft.deep,drains NW.

46.00 Enter cedars;ascend broken slope.

63.00 Leave cedars and sage brush.

70.00 Gully 10 ft.deep,drains NW.

80.00 True cor.point falls on W slope of sandstone ledge;cut a cross (x) at cor.point,4 grooves E;5 grooves S of cross, and raise a mound of stone 2 ft.base,1½ ft.high at foot of ledge W of cor. Pits impracticable.

Land broken.

Soil sandy and rocky;3d.rate.

Timber,cedars on 17.00 chs.

Undergrowth,dense sage brush on 63.00 chs.

ian and obtain on the lat.arc,the reading,40°29'25",which

SUBDIVISION OF T 4 S.R 23 E.

Chains

Mountainous land on 80.00 chs.

Knowing that I will not intersect the cor.of secs.1,6,7, and 12,within limits,.

I run

West on a true line bet.secs.6 and 7.

Over bench,in sage brush and shadscale.

1.50 Leave bench;descend.

3.00 Bottom of hollow 25 ft.below bench,drains S 10° W. Ascend

4.00 Top of ridge spur,30 ft.above hollow,projects S. Descend.

7.00 Head of hollow drains SW. Ascend.

11.00 Top of ridge spur 50 ft.above hollow,projects S 60° W. Descend.

27.50 Road bears N 15°W,and S 15° E.

31.50 Wash 20 lks.wide,3 ft.deep,drains NW.

39.50 Wash 20 lks.wide,6 ft.deep,drains NW.

40.00 Set a sandstone 15x10x5 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on N face,and raise a mound of stone 2 ft.ba 1½ ft.high N of cor. Pits impracticable. Ascend.

47.00 Top of ridge spur 75 ft.above cor. projects N. Descend.

54.00 Head of hollow drains NW. Ascend.

57.00 Top of ridge spur 60 ft.above head of hollow,projects N. Descend.

63.00 Wash 40 lks.wide,10 ft.deep,drains S 25° W. Enter flat.

67.70 Wire fence bears N 30° E,and S 30° W. Enter cultivated ground.

74.00 Brush creek 30 lks.wide,2 ft.deep,rapid current,flows S. Sandy bottom. Enter dense willow brush.

79.73 Intersect W bdy.of Tp.Ashley Guide Meridian,3.97 chs.N of cor.of secs. 1,6,7,and 12,heretofore described.

At intersection,set a sandstone 18x14x4 ins. 12 ins.in the ground,for closing cor.of secs. 6 and 7,marked 5 grooves o S;1 groove on N;CC on E faces;dig pits 24x18x12 ins. cross wise on each line,N and S 7 ft.and E 7 ft.dist.

Chains	
	and raise a mound of earth 4 ft.base,2 ft.high E of cor.
	I destroy all marks on cor.of secs.1,6,7,and 12,pertaining to secs. 6 and 7.
	Land broken and level.
	Soil,sandy loam and rocky; 1st.and 2d.rate.
	No timber.
	Sage brush and shadscale.
	Dense willows on 5.78 chs.
	Broken land on 66.80 chs.

	N.0° 4'W. on a random line bet.secs. 5 and 6.
40.00	Set temp.¼ sec.cor.
76.10	Intersect N bdy.of Tp.at cor.of secs. 5,6,31,and 32.
	Thence I run
	S.0°4'E. on a true line bet.secs. 5 and 6,in undergrowth.
13.50	Road bears NE and SW. Ascend.
32.00	Top of ridge 100 ft.above cor.bears NE and SW. Descend.
36.00	Wash 50 lks.wide,6 ft.deep,drains S 75° W. Ascend.
36.10	Seta sandstone 15x9x7 ins.10 ins.in the ground,for ¼ sec.cor. marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
45.00	Foot of reef;ascend precipitous slope.
57.00	Top of reef,150 ft.above wash,bears S 30° W. and N 80° E. Descend.
59.00	Foot of reef;enter broken hollow.
62.50	Wash 30 lks.wide,5 ft.deep,drains W. Ascend.
66.00	Road bears E and W. in hollow.
71.60	Enter bench bears E and W.
76.10	The cor.of secs.5,6,7,and 8.
	Land broken.
	Soil,rocky.3d.rate.
	No timber.
	Undergrowth,sagebrush and shadscale.
	Mountainous land on 76.10 chs.
	October,3d.1906: I set off 7°49'S on the decl.arc,and at 11h.49m.,17s.,a.m.l.m.t., observe the sun on the meridian and obtain on the lat.arc,the reading,40°29'35",which

Chains	
	agrees with other data.
	N.0°3'W. on a random line bet.secs. 4 and 5.
40.00	Set temp.¼ sec.cor.
76.20	Intersect N bdy.of Tp.3 lks.E of cor.of secs.4,5,32,an heretofore described.
	Thence I run
	S.0° 6'E. on a true line bet.secs.4 and 5.
	Descend.in sage brush and shadscale.
12.70	Bend in wash from NW drains SW.
21.50	Bottom of hollow 50 ft.below cor.drains SW.
28.50	Wash 10 lks.wide,5 ft.deep,drains S 75° W. Ascend.
34.00	Top of reef 100 ft.above hollow,bears N 60° E;S 60° W. Descend.
35.50	Road bears NE and SW.
36.20	Set a sandstone 15x9x7 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 base 1½ ft.high W of cor.
37.70	Gully,15 ft.deep,drains S 80° W. Ascend.
38.00	Top of spur,20 ft.above gully,projects SW. Descend.
42.00	Gully,15 ft.below spur,drains SW. Ascend.
62.00	Top of ridge spur,75 ft.above gully,projects S 80° W. Descend.
65.70	Bottom of hollow 30 ft.below spur,drains S 80° W. Ascend.
74.20	Top of sandstone knoll 50 ft.above hollow. Descend.
76.20	The cor.of secs. 4,5,8,and 9.
	Land broken.
	Soil,rocky and sandy;3d.rate.
	No timber.
	Undergrowth;sage brush and shadscale,on 76.20 chs.
	Mountainous land on 76.20 chs.
	The land S and E of Sec.5 being worthless I do not surv it.
	(October,3d.1906.

Meanders of the right bank of Green river,down stream.
I begin at the meander cor.of fracl.secs.1 and 36,on S bdy.of Tp.which is a cobble stone 5x10x6 ins.above grou d, marked and witnessed as described by the surveyor gener l.

At this cor.October,4th: I set off 40° 25' on the lat. arc;4°7'S on the decl.arc,and at 7h. 49m.,a.m.,l.m.t, determine a meridian with the solar.

Thence I run with meanders in sec.36.

N.7°15'W. 9.80 chs. Bank 15 ft.high.

N.26°05'W. 11.05 chs. Bank 20 ft.high.

To the meander cor.of fracl.secs. 35 and 36.

Land,bench along river bank.

Soil,very sandy;3d.rate.

No timber.

No brush.

Thence in Sec.35.

N.38°45'W. 6.30 chs. Mouth of hollow 40 ft.deep,at 3.50 chs. drains SW.

N.54°15'W. 14.60 chs. Mouth of Red Wash at 9.36 chs. drains SW. Banks 15 ft.high;no brush.

N.56°45'W. 32.00 chs. Brush begins at 5.50 chs. banks 10 ft.high;brush ends at 29.00 chs.

N 55° 30'W. 6.00 chs. Banks 8 ft.high;Brush begins.

N 65° 30' W. 3.70 chs. Mouth of wash at 4.30 chs. Brushy.

N.60° 15.W. 29.68 chs. Brushy;Mouth of wash at 6.90 chs. Banks 8 ft.high.

To the meander cor.of fracl.secs.34 and 35.

Land river bottom.

Soil,sandy;3d.rate.

No timber.

Dense underbrush on 68.08 chs.

Thence in Sec.34.

N.66°00'W. 2.40 chs. 20 lks.to mouth of wash drains SW.

N.75° 30'W. 7.30 chs. Brush begins. Banks 8 ft.high.
Mouth of wash at 6.82 chs. drains S.

N.88°00'W. 7.00 chs. Banks 8 ft.high.

N.81°00'W. 8.00 chs. Brush ends. Mouth of wash at 3.0
chs. drains S. Banks 10 ft.high.

N 71° 30'W. 5.10 chs. Bank 10 ft.high.

N.77° 30'W. 6.30 chs. Bank 8 ft.high.

S 81°00'W. 3.50 chs. Bank 8 ft.high.

N 84° 00'W. 3.90 chs. Brush begins;Mud Spring Wash,80
lks.wide,8 ft.deep,at 2.45 chs. drains S.

N.79°04'W. 4.33 chs. Bank 8 ft.high.

To meander cor.of fracl.secs. 27 and 34.

Land level,river bottom.

Soil,clay;3d.rate.

No timber.

Dense brush on 23.08 chs.

Thence in Sec.27.

N 70° 30'W. 14.20 chs. Brush begins at 0.. Bank 8 ft.hi
Mouth of Wash 50 lks.wide,at 10.90,drains S.

N.83° 45'W. 5.00 chs. Brush ends. Banks 8 ft.high.

S 83°05'W. 4.53 chs. Banks 8 ft.high.

To meander cor.of fracl.secs. 27 and 28.

Land river bottom.

Soil,clay;3d.rate.

No timber.

Dense brush on 14.20 chs.

Thence in Sec.28.

S.72°00'W. 3.30 chs. In dense brush. Banks 8 ft.high.

S.43°17'' W. 4.97 chs. " " " 10 "

To meander cor.of fracl.secs. 28 and 33.

Land steep hillside,sloping to river.

Soil,blue clay,3d.rate.

No timber.

Dense brush on 8.57½ chs.

Thence in Sec.35.

S.44°00'W. 6.00 chs. Banks 10 ft.high. In dense brush.

S.25°00'W. 4.80 chs. Bank 8 ft.high. " " "

Mouth of wash,drains SE.

S.11°30'E. 10.50 chs. Bank 8 ft.high. Wash drains SE.

S.27°15'E. 5.50 chs. Bank 8 ft.high;in dense brush.

S.4°15'E. 6.60 chs. " 8 " " " " "

Mouth of wash drains SE at 5.00 chs.

S.3°45'E. 6.50 chs. Bank 10 ft.high. Dense brush.

S.5°15'E. 11.00 chs. " " " " "

S.3°15' E. 5.00 chs. " 8 " " "

S 7° 45'E. 14.50 chs. " 8 " " "

S.3° 45'E. 7.50 chs. " 8 " " "

S.15°02'W. 7.97 chs. " 8 " " "

To meander cor.of fracl.secs. 4 and 33,on S bdy.of Tp. heretofore described.

Land river bottom.

Soil,clay;3d.rate.

No timber.

Dense brush on 35.87 chs.

October,4th.1906: I set off 3° 59'S on the decl.arc,and a 11h.48m.58s.,a.m.,l.m.t.,observe the sun on the meridian and obtain on the lat.arc,the reading,40°25',which agree. with other data.

Thence I run

With meanders of the left bank of Green river,down strea .

I commence at the meander cor.of fracl.secs. 2,and 35,on S bdy.of Tp.which is a sandstone 8x10x6 ins. above ground, arked and witnessed as described by the surveyor general.

Thence in Sec.35.

N.23°45'E. 5.70 chs. Bank 8 ft.high.

N.1°15'E. 4.30 chs. " " "

N.25°30'W. 3.20 chs. " " "

N.33°00'W. 4.50 chs. " " "

N.46° 15'W. 3.30 chs. Bank 6 ft.high.

N 50° 15'W. 2.00 chs. " 8 " "

N 52° 30'W. 3.30 chs. " " " "

N 62° 15'W. 6.90 chs. " " " "

N 63.45'W. 9.30 chs. " " " "

S 37° 15'W. 10.50 chs. " 6 " " Enter scattering cottonwoods.

N.55°15'W. 3.50 chs. Bank 6 ft.high. Leave cottonwo

N.37° 15'W. 12.30 chs. " 8 "

N.49°00'W. 10.00 chs. " 8 "

N 51° 45'W. 4.20 chs. " 8 "

N 55°00'W. 6.50 chs. Bank 8 ft.high.

N.62°15'W. 17.30 chs. " " " Enter brush.

N 26°09'W. 4.34 chs. " " " In "

To meander cor.of fracl.secs. 34 and 35.

Land river bottom.

Soil,sandy loam;1st.rate.

Timber,scattering cottonwoods.

Dense brush on 21.54 chs.

Thence in Sec.34.

N 72° 45'W. 9.70 chs. Bank 8 ft.high;in dense brush.

West, 6.40 chs. " " " Leave brush.

S 75°45'W. 8.40 chs. " " "

N 75°15'W. 31.60 chs. " " "

N 53°15'W. 17.00 chs. " " "

S 84° 00'W. 6.60 chs. " 10 " "

S 85°40'W. 3.31 chs. " " "

To meander cor.of fracl.secs. 33 and 34.

Land river bottom.

Soil,sandy loam;1st.rate.

No timber.

Dense brush on 9.70 chs.

Thence in Sec.33.

S.41°15'W. 5.30 chs. In squaw and willow brush;banks 8 f

high.

S,21° 15'E. 7.40 chs. In brush. Bank 8 ft.high.

S.5°15' E. 8.00 chs. " " " " "

S.16°45'W. 7.70 chs. Leave brush. " " "

S.0° 30'W. 10.10 chs. " " "

S 22°07½'E. 6.75 chs. " " "

To meander cor.of fracl.secs. 33 and 34. heretofore described.

Land river bottom.

Soil,sandy loam;1st.rate.

No timber.

Dense brush on 20.70 chs.

Thence in Sec.34.

S.15°00'E. 11.90 chs. Bank 8 ft.high.

S 7° 45'E. 1.80 chs. " " "

S 11° 00'E. 10.20 chs. Enter squaw brush, Bank 8 ft.high.

S 24° 30'E. 3.10 chs. Leave " " " "

S 7° 45'W. 4.40 chs. Bank 8 ft.high.

S 6° 30'W. 3.30 chs. " " "

S 42°16'W. 4.73 chs. " " "

To meander cor.of fracl.secs. 3 and 34,on S bdy.of Tp.

heretofore described.

Land river bottom.

Soil,sandy loam,1st.rate.

No timber.

Dense brush on 10.20 chs.

(October,4th.1906.

GENERAL DESCRIPTION.

This township is for the most part occupied by very broken mountainous country,unfit for agriculture and of little value for grazing purposes.

Green river enters the township on the S bdy.at the cor. of secs.35 and 36 and after making a sweep to the northwestward to cor.of secs. 27,28,33,and 34,turns to the south -

ward and leaves the township at the cor. of secs. 33 and 2
An elbow of the gorge of same stream enters the Tp. in se
24, on E bdy. but leaves same immediately.

Brush creek enters at the northwest corner and flowing i
a general southerly direction leaves same again in sec. 7
again entering in sec. 31, whence it flows in a southeaste
direction, leaving the Tp. in same sec.

Near the north line of sec. 28 is a small spring valuabl
only for watering stock, while ranging nearby in winter.

Some small tracts are cultivated along Brush creek, but
the valley is very narrow, affording little arable land; a
considerable body of land lies along Green river on both
sides in secs. 33, 34, 35, and 36; which when irrigated will
become valuable for farming purposes, however the irrigat
of this tract being quite expensive, is likely to be acco
plished only when, from the advent of better market facil
ities than at present enjoyed, its cultivation can be mad
profitable.

The following settlers are found in this Tp.:-

J.P. Jensen cultivates about 40 acres in W½ NW¼ and NW¼ SW
Sec. 6; he has a log house, corrals, and about 100 acres und
wire fence, value of his improvements:-$1000.

James B. Henry, whose house is situated in Sec. 12 T.4 S., R
cultivates about 30 acres of land in Sec. 7, which is fenc
with wire fence, value of improvements:-$300.

E.W. Evans cultivates about 40 acres in W½ SW¼ and SW¼ NW
Sec. 31, has a log house corrals, and fenced fields. value
of improvements:-$1000.

Joseph Burton cultivates about 80 acres in E½ SW¼ and S½
SE¼ Sec. 31, has log house, stables corrals, and fenced fiel
value of improvements $1500.

C Frank cultivates about 25 acres in S½ SE¼ sec. 33, has a
log house, stables corrals and about 80 acres fenced, valu
of his improvements, $1000.

The only timber in this Tp. is a few scattering cottonwo
along Green river, and cedar and pinon on the more mountai

-ous portions,valuable for fuel and fencing only.

Some indications of coal occur in secs. 27,28,and 30,whi h however,is of poor quality;I therefore do not designate ny portion of this township as coal land.

There are no indications of quartz,silver,lead,copper,i on, tin,cinnabar,hydro-carbons,or salines in this township;h w-ever,there occurs some placer gold in the sand bars alon Green river,in this township,but whether found in paying q quantities or not the deputy is unable to state.

Edgar R. Warnston

U.S.Deputy Surveyor.

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HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision and meander lines of Tp. 4 S., R. 23 E., S.L.B.& M., Utah showing the respective capacities in which they acted:

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision and meander lines of Tp. 4 S., R. 23 E., S.L.B.& M.,

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

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 9th. day of August, 1907, ~~189~~

SEAL

Ward E. Pack Jr.
Notary Public

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I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date 19th day of December, 1899, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision and meander lines of Tp. 4 S., R. 23 E.,

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

Edgar F. Harmston
United States Deputy Surveyor

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th day of August, 1900

Jas. A. Hacking
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11 -

The foregoing field notes of the survey of the subdivisional and meander lines in Township No. 4 South, Range No. 23 East of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston under his contract No. 235, dated December 19, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor G

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

United States Surveyor G

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BOOK A-339

FIELD NOTES

OF THE SURVEY OF THE

West - East and South
Boundaries
T. 3 S. - R. 24 E.

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

Adolphe Jessen and
Edgar F. Harmston, United States Deputy Surveyor,

under ~~his~~ Their Contract No. 235, dated December 19th, 1899

Survey commenced June 1st, 1900

Survey completed June 10th, 1900

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East Boundary	high	6.00-66	
Down			1625
South Bdry	high	4.29.65	
" "	low	1-19.50	
East "	high	5.71.70	
	low	11-00	

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox Chainman

John Holmes "

Josiah Timms Moundman

Albert Kone Axeman

Craig Harmston Flagman

For preliminary affidavits see Cook A. Yp. 3 S. R. 21 E.

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BOOK A-339

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

..... *Axm*

..... *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 .....

..... *Flagm*

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

SEAL

.....

.....

West Bdy of T. 3 S. R. 24 E.

Survey commenced June 1st 1900 and executed with instrument described in Book "A".

At the cor. to Tps. 3 & 4 S. Rgs 23 & 24 E Salt Lake Meridian, established in this survey, in approximate lat 40° 30' 25" N, Long. 109° 16' 51" W. – I carefully examine the adjustments of the transit and test the Solar apparatus by comparing the results of observations on the sun made during A. M. and P. M. hours with a true Meridian determined by observation on Polaris –

At 4 h. – p. m. – l. m. t. I set off 40° 30' N. on the lat. arc and 22° 01' N. on the decl. arc and determine with the Solar a true Meridian and mark a point thereof by pencil mark No 1 on a stake set firmly in the ground 5 chs. N. of cor.

At 8 h. 41 m. P. M. – l. m. t. I observe Polaris in accordance with instructions of the Manual at Lower Culmination and mark the direction thus determined by making pencil mark No 2 on the stake set in the afternoon on which the true Meridian falls 0.4 lks. W. of the mark determined by the Solar.

June 2nd 1900 – At 7 h. a. m. – l. m. t. I set off 40° 30' N. on the lat. arc 22° 12' N. on the decl. arc and mark a point in the true Meridian determined by the Solar by pencil mark No 3 on the stake already set 5 chs. N. of my station This mark falls 0.3 lks. E. of the mark of the true Meridian established by Polaris observation.

The Solar apparatus by P. M. and A. M. observations defines positions for the true Meridian respectively at 0' 21" and 0' 16" East of the position established for the true Meridian by the Polaris observation, therefore I conclude the adjustments of the transit are satisfactory.

The magnetic bearing of the true Meridian at 7:30 A. M is N. 15° 57' W. which reduced by the table on

chs.	Page 100 of the manual gives the mean magnetic declination 15° 51' E.
	Thence, complying with Special Instructions accompanying this contract, I run from said above mound cor. North on a random line along the W. Bdy. of T. 3 S. R. 24 E. setting temp 1/4 sec. and sec. cor at intervals of 40.00 and 80.00 chs – At 480 chs 66 lks. I intersect the S. Bdy. of sec. 31 T. 2 S. R. 24 E. N. 89° 25' E. 16.25 chs from the cor to Tps. 2 & 3 S. Rgs. 23 & 24 E. which is a sandstone 18 x 9 x 9 ins. set marked and witnessed as described by the Surveyor General and from which I obliterate all marks pertaining to T. 3 S.
	At the point of intersection I set a sandstone 18 x 12 x 10 ins. 12 ins. in the ground for closing cor. to T. 3 S. Rgs. 23 & 24 E. marked C. C. 3 S. on S. – 24 E. on E. 23 E. on W. faces with 6 grooves on S. E. & W. faces, – dug pits 30 x 24 x 12 ins. crossed on each line E. & W. 4 ft. dist and S. of stone 8 ft. dist and raised a mound of earth 5 ft. base 2 1/2 ft. high S. of cor.
	June 3rd 1900 – At this cor I set off 22° 20' N. on the decl. arc and at 12 h – m. l. m. t. observe the sun on the Meridian the resulting lat. is 40° 36' N.
	Thence I run
	South on true line
	bet. secs. 1 & 6
17.00	Leave Diamond Mountain Plateau descend precipitous S. E. slope
30.00	Foot of slope
40.66	Set a sandstone 22 x 12 x 10 ins. 17 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
44.00	Rocky ridge, 40 ft. high bears W.
52.00	Enter dense cedars
73.00	Hollow 10 ft. deep drains S. E.
80.66	Set a sandstone 14 x 12 x 6 ins. 9 ins. in the ground

W. Bdy of T. 3 S. R. 24 E.

Chs. for cor. to secs. 1. 6. 7 & 12 marked 1 notch on N. and 5 on S. edges.
from which
A cedar 10 ins. diam bears N. 65° E. 42 lks. dist marked T. 3 S. R. 24 E. S. 6 B.T.
A cedar 6 ins. diam. bears S. 20° E. 14 lks. dist. marked T. 3 S. R. 24 E. S. 7 B.T.
A cedar 10 ins. diam bears S. 72° 30' W. 12 lks. dist. marked T. 3 S. R. 23 E. S. 12 B.T.
A cedar 7 ins. diam. bears N. 64° W. 39 lks. dist. marked T. 3 S. R. 23 E. S. 1 B.T.
Land mountainous
Soil 3rd rate, rocky.
Dense cedars on S. 30.30 chs
Mountainous on 80.66 chs

South on true line
bet. secs. 7 & 12

3.50 Gulch 30 ft. deep drains S.E.
12.00 Wash 5 lks. wide 3 ft. deep drains S.W.
18.00 Wash 4 lks. wide 2 ft. deep drains S.W.
40.00 Set a sandstone 24 x 14 x 7 ins. 18 ins. in the mud for 1/4 sec. cor. marked 1/4 on W. face which
A cedar 6 ins. diam. bears S. 4° 10' E. 20 lks. red 1/4 S. 7 B.T.
A cedar 24 ins. diam. bears N. 16° W. 19 lks. dist. 1/4 S. 12 B.T.
50.00 Wash 3 lks. wide 1 ft. deep drains S.W.
80.00 Set a sandstone 18 x 12 x 6 ins. 12 ins. in the mud for cor. to secs. 7. 12. 13 & 18 marked 2 notches on N. and 4 on S. edges.
from which
A cedar 8 ins. diam. bears N. 33° 20 E. 35 lks. marked T. 3 S. R. 24 E. S. 7 B.T.
A cedar 6 ins. diam. bears S. 52° E. 52 lks. red T. 3 S. R. 24 E. S. 18. B.T.

chs.

A cedar 9 ins. diam bears S. 27° W. 24 lks. marked T. 3 S. R. 23 E S. 13 B.T.
A cedar 8 ins. diam bears N. 53° 20' W 37 lks. marked T. 3 S. R. 23 E. S. 12 B.T.
Land broken S. slope
Soil 3rd rate, rocky.
Dense cedars on 80.00 chs.

South on true line
bet. secs. 13 & 18

Proceed
22.00 Gulch 50 ft. deep drains S.W.
40.00 Set a sandstone 12 x 10 x 5 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
A cedar 10 ins. diam. bears S. 23° E. 16 lks. marked 1/4 S. 18 B.T.
A cedar 10 ins. diam bears N. 39° 25' W. 11 lks. marked 1/4 S. 13 B.T.
53.00 Ravine 30 ft. deep drains S.W.
68.00 Ridge 50 ft. high bears N.E. & S.W.
76.00 Heavy cedars — Foot of slope of Diamond mountain
— 80.00 Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground for cor. to secs. 13. 18. 19 & 24 marked 3 notches on N. & S. edges and raised a mound of stone 2 ft. base 1½ ft high W. of cor.
Pits impracticable
Land broken slopes
Soil 3rd rate, rocky.
Dense cedars on N. 76.00 chs
Mountainous or dense cedars on 80.00 chs

June 4th 1900. At 7 h. - a m - l.m.t. -

West Bdy of T. 3 S. R. 24 E.

chs. Set off 40° 33' N. on the lat. arc; 22° 27' W. on the decl. arc and determine with the Solar a true Meridian at the cor. to secs. 13. 18. 19 & 24
Thence I run
South on true line bet. secs 19 & 24

10.00 Hollow 30 ft. deep drains S.E.
12.00 Enter broken bench
22.00 Leave bench, enter deep drains S.E.
35.00 Leave deep. — ascend.
40.00 Set a sandstone 17 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
42.00 Rocky ridge 80 ft. high bears S.E. & N.W.
55.50 Gulch 70 ft. deep drains S.E.
61.00 Enter broken bench bears N.W. & S.E.
80.00 Set a sandstone 12 x 8 x 8 ins. 8 ins. in the ground for cor to secs. 19. 24. 25 & 30 marked 4 notches on N. and 2 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
Land broken ridges and benches
Soil 2nd rate, gravelly and sandy
No timber
Mountainous on 80.00 chs

South on true line bet. secs. 25 & 30

16.00 Leave bench
30.00 Ridge spur 50 ft. high bears S.W.
36.00 Hollow 75 ft. deep drains S.E.
40.00 Set a limestone 12 x 10 x 6 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
78.00 Gully drains S.E.
80.00 Set a sandstone 18 x 10 x 6 ins. 12 ins in the ground for cor. to secs. 25. 30. 31 & 36 marked 5 notches on N. and 1 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.

West Bdy T. 3 S. R. 24 E.

chs. Pits impracticable
Land broken
Soil 2nd rate, sandy.
No timber
Mountainous on 80.00 chs

South on true line bet. secs. 31 & 36

1.00 Gully 20 ft. deep drains E.
25.50 Ridge spur 100 ft. high bears S.E.
39.00 Gully 15 ft. deep drains S.E.
40.00 Set a sandstone 22 x 16 x 4 ins. 16 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face dug pits 18 x 18 x 12 ins N. & S. of stone 3 ft. dist and raised a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
51.50 Ridge spur 25 ft. high bears S.E.
55.50 Hollow 25 ft. deep drains S.E.
66.50 Ridge spur 50 ft. high bears S.E.
68.00 Head of hollow drains S.E.
72.00 Ridge spur 25 ft. high bears S.E.
80.00 The cor. to Tps 3 & 4 S. Rgs. 23 & 24 E. heretofore described.
Land broken clay ridges
Soil 2nd rate, sandy.
No timber
Mountainous on 80.00 chs

June 4th 1900

For general description see end of subdivision notes of this Tp. –

Edgar F. Hamilton
U. S. Dep. Surveyor

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South Boundary of T. 3 S. R. 24 E.

Survey commenced June 4th 1900.

June 4th 1900 – At the cor. to Tps 3 & 4 S. Rgs. 23 & 24 East established by me in this survey I set off 22° 28' N. on the decl. arc and at 12 h. m. & mt. observe the sun on the Meridian the resulting lat. is 40° 30' N. – I also test my instrument on the true Meridian established there by Polaris observations on June 2nd

Thence – complying with special instructions accompanying this contract – I run

East on a random line along the S. Bdy of Tp. 3 S. R. 24 E. setting temp ¼ sec. and sec. cor's at intervals of 40.00 chs. and at 4 78 chs 10 lks. set a temporary cor. to Tps. 3 & 4 S. – Rgs. 24 & 25 E. allowing the 1 ch. 90 lks. for convergency of Meridians on the first or western ½ mile.

Thence after having in the Survey of the East Boundary of this Tp. according to the Special Instructions established the permanent cor. to Tps 3 & 4 S. Rgs 24 & 25 E. 28 chs. 95 lks. West of the temporary cor. I proceed to return along the S. Bdy of this Tp on a true line.

June 9th 1900. At the permanent cor. to Tps 3 & 4 S. Rgs. 24 & 25 E. I set off 22° 57' N. on the decl. arc and at 12 h. m. l. m t observe the sun on the Meridian the resulting lat. 40° 30' N.

Thence I run

West on a true line

lat. secs. 1 & 36

In "Rainbow Park"

29.00 S.W. point of ridge 20 ft. high

31.50 Road bears N.E. & S.W.

40.00 Set a sandstone 12 x 10 x 5 ins. 8 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable

South Boundary of T. 3 S. R. 24 E.

chs.	
50.75	Wash 20 lks. wide 5 ft. deep drains S.E.
56.50	Leave Rainbow Park – Ascend precipitous E. slope
61.50	Ridge spur 75 ft. high bears S.E.
80.00	In hollow 50 ft. deep drains S. – set a sandstone 12 x 10 x 6 ins. 8 ins. in the ground for cor. to secs. 1. 2. 35 & 36 marked 1 notch on E. and 5 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Land rolling flat and mountainous
	Soil 1st and 3rd rate, sandy loam or rocky.
	No timber
	Mountainous on W. 23.50 chs

West on a true line
bet. secs. 2 & 35

5.00	Ridge spur 50 ft. high bears S.
9.00	Wash 15 lks. wide 3 ft. deep drains S.
18.00	Broad ridge spur 75 ft. high bears S.
26.00	Ridge spur 50 ft. high bears S.
30.00	Enter N. edge of flat
40.00	Set a sandstone 20 x 8 x 4 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
45.00	Leave flat, ascend S.E. slope
60.00	Wash in summit of hollow 30 lks. wide 10 ft. deep drains S.E.
75.00	Cliff 20 ft. high bears NE. & SW. – Enter Bench –
80.00	Set a sandstone 12 x 10 x 5 ins. 8 ins. in the ground for cor. to secs 2. 3. 34 & 35, marked 2 notches on E. and 4 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable.
	Land broken S. slope
	Soil 2nd rate, sandy.

South Bdy. of T. 3 S. R. 24 E.

chs. No timber
Mountainous on 65.00 chs

West on true line bet. secs. 3 & 34

17.50 Leave beach; descend -
18.50 Hollow 30 ft. deep drains S.
20.00 Ridge spur 50 ft. high bears S.
22.00 Enter flat
31.50 Leave flat - Ascend
33.00 Ridge spur 50 ft. high bears S.
36.50 Wash 15 lks. wide 3 ft. deep drains S. Re-enter flat -
38.50 Road bears NW. & S.E.
40.00 Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
Pits impracticable
42.00 Main Wash 30 lks. wide 8 ft. deep drains S.E
48.00 Some wash drains N.E.
50.00 Some wash drains S.E.
53.00 Leave flat - Ascend precipitous N.E. slope
73.00 Hollow 25 ft. deep drains N.
80.00 Set a sandstone 14 x 10 x 8 ins. 10 ins. in the ground for cor. to secs. 3. 4. 33 & 34 marked 3 notches on E. & W. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. - Pits impracticable
52/28.
Land broken hills and flats
Soil 2nd rate, sandy
No timber
Mountainous on 52.00 chs

June 10th 1900 - At 7 h. am. - L.M.T. I set off 40° 30' N. on the lat. arc; 23° 02' N. on the decl. arc. and determined with the Solar a true Meridian at the cor. to secs. 3. 4. 33 & 34

South Bdy of T. 3 S. R. 24 E.

chs. Thence S. run
West on true line bet. secs. 4 & 33.

3.50 Hollow 30 ft. deep drains N. 20° E.
29.50 Hollow 50 ft. deep drains N.
36.50 Hollow 20 ft. deep drains N.
40.00 Set a sandstone 16 x 8 x 8 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
49.00 Enter. Gully 10 ft. deep drains N. 70° E.
67.50 Leave same - head S. 70° W.
77.50 Road bears NE. & SW.
80.00 Set a sandstone 18 x 10 x 8 ins 12 ins in the ground for cor. to secs. 4. 5. 32 & 33 marked 4 notches on E. and 2 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land broken
Soil 2nd rate, Sandy.
No timber
Mountains on 80.00 chs

West on true line bet. secs. 5 & 32

4.00 Ridge spur 50 ft. high bears S.
16.00 Road bears NW. & SE.
17.50 Same road bears NE. & SW.
21.00 Ridge spur 30 ft. high bears S.
25.50 Gully 10 ft. deep drains SE.
40.00 Set a sandstone 14 x 10 x 9 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft high N. of cor.
Pits impracticable
44.50 Ridge spur 50 ft. high bears S.
48.00 Gully 10 ft. deep drains S.
73.00 Ridge spur 50 ft. high bears S.
79.50 Gully 15 ft. deep drains S.

South Bdy of T. 3 S. R. 24 E.

chs.
80.00 Set a sandstone 18×10×6 ins. 12 ins. in the grn for cor. to secs. 5. 6. 31 & 32 marked 5 notches E. and 1 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land broken S. slope of high bluff.
Soil 2nd rate, gravelly
No timber
Mountainous on 80.00 chs.

West on true line bet. secs. 6 & 31

3.90 Gully 15 ft. deep drains S.E.
16.00 Ridge spur 50 ft. high bears S.
19.50 Hollow 40 ft. deep drains S.
25.00 Ridge spur 40 ft. high bears S.
27.00 Gully 15 ft. deep drains S.
31.50 Ridge spur 30 ft. high bears S.
40.00 Set a sandstone 18×8×8 ins. 12 ins in the ground for ¼ sec. cor. marked ¼ on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
40.15 Gully 10 ft. deep drains S. 10° E.
47.50 Gully 8 ft. deep drains S. 20° E.
49.15 The cor. to Tps. 3 & 4 S. Rgs 23 & 24 E. heretofore described
Land broken S. slope
Soil 2nd rate, sandy
No timber
Mountainous on 49.15 chs

June 10th 1900

South Bdy. of T. 3 S. R. 24 E.

Boundaries of T. 3 S. R. 24 E.

Latitudes, Departures and closing errors

Line designated	True Bearing	Distance chs	Latitudes North chs	Latitudes South chs	Departures East chs.	Departures West chs
West Bdy.	North	480.66	480.66			
North Bdy	N.89°25'E.	60.64	60		60.64	
	N.89°26'E.	75.50	75		75.50	
	East	312.50			312.50	
East Bdy	South	482.70		482.70		
South Bdy	West	449.15				449.15
convergency					.61	
			482.03	482.70	449.25	449.15
				482.03		
				.67	449.15	

Error in lat = .67 Error in dep = .10

For general description see end of field notes of the Subdivisions of this Tp.

Edgar F. Harrington
U. S. Dep. Surveyor

East Boundary of T. 3 S. R 24 E.

Survey commenced June 5th 1900

June 5th 1900 — At the temp. cor. to Tps 3 & 4 S. Rgs 24 & 25 E. Salt Lake Meridian established by me in this survey I set off 22° 34' N. on the decl. arc and at 12 h. m. L.m.t observe the sun on the Meridian the resulting lat. is 40° 30' N.

Thence — in accordance with the special instructions accompanying this contract — I run North on a random line along the East Boundary of T. 3 S. R. 24 E. setting temp. 1/4 sec. and sec. cor's at intervals of 40.00 chs. and at 48.5 chs. 70 lks. I reach a point from which the established cor. to Tps 2 & 3 S. R. 24 & 25 E. — which is a sandstone 24 x 24 x 15 ins. set, marked and witnessed as described by the Surveyor General — bears W. 28.95 chs. dist. and I abandon the random line, but the West and East Bdy. of of this Tp. so far as surveyed show a difference in length of 3.40 chs — my falling in the S. Bdy of sec. 31 T. 2 S. R. 24 with the W. Bdy of this Tp indicates error in alinement of the S. Bdy of T. 2 S. R. 24 E. and in order to definitely locate said discrepancy before permanently establishing the E. & S. Bdy's — I first retrace the the N. Bdy See Book M.

June 8th 1900. At the closing cor. to Tps. 2 & 3 S. Rangs 24 E established in my re-survey of the S. Bdy of T. 2 S. R. 24 E. I set off 22° 52' W. the decl. arc and at 12 h. m. L.m.t observe the sun on the Meridian the resulting lat. is 40° 36' N

Thence I run

South on a true line
bet. secs. 1 & 6

In dense cedars and pinion pine

13.50 Hollow 15 ft. deep drains S.W.

East Boundary of T. 3 S. R. 24 E.

chs.	
19.50	Hollow 20 ft. deep drains S.W.
26.50	Ridge 50 ft. high bears E. & W.
35.50	Have cedars & piñon pine
38.50	Re-enter cedars & piñon pine
41.50	Rocky ridge 50 ft. high bears N. & S.W.
42.70	Set a limestone 12x9x8 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face
	from which
	A dead cedar 8 ins. diam bears S.22° E. 14 lks. dist. marked 1/4 S 6 B.T.
	A dead cedar 8 ins. diam. bears N.48° 30' W. 35 lks. dist. marked 1/4 S. 1 B.T.
51.00	Ridge 50 ft. high bears S.E. & N.W. Descend
54.00	Enter basin – drains S.W.
74.00	Gully 20 ft deep drains S.W – Have cedars
81.00	Ravine 30 ft deep drains S.W.
82.70	Set a sandstone 20x12x10 ins. 15 ins in the ground for cor to secs 1.6.7.12
	Land broken Mountain slope
	Soil 3rd rate, rocky
	Dense cedars and piñon pine on 71.00 chs
	Mountainous on 82.70 chs

South on a true line
bet. secs 7 & 12

	In small scattering cedars
2.00	Ridge spur 30 ft. high bears S.W.
6.50	Hollow 50 ft. deep drains S.W.
14.50	S.W. point of ridge spur 30 ft. high
17.00	Hollow 30 ft deep drains S.W.
30.00	Ridge spur 75 ft. high bears S.W.
35.00	Ridge 75 ft. high bears N.W. & S.E.
39.75	Ravine 20 ft. deep drains S.E. Ascend precipitous N.E. slope
40.00	Set a sandstone 18x12x6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a stone mound 2 ft. base 1 1/2 ft. high W. of cor.

East Boundary of T. 3 S. R. 24 E.

chs.	
	Pits impracticable
55.00	Enter summit of ridge 75 ft. high bears N.W. and S.E.
60.00	Leave same — descend S.W. slope
66.00	Gully 20 ft. deep drains S.W.
80.00	Falls on solid sandstone ledge — At the exact cor. point mark a cross (+) for the cor. to secs. 7, 12, 13 & 18 also mark 2 grooves on N. and 4 on S. side of cross and raise a mound of stone 2 ft. base 1½ ft. W. of cor.
	Pits impracticable
	Land broken mountains
	Soil 3rd rate, rocky
	A few scattering cedars
	Mountainous on 80.00 chs

South on a true line
bet. secs. 13 & 18

8.00	Canyon 150 ft. deep drains S.E.
34.50	Hollow 50 ft. deep drains E.
40.00	Set a sandstone 15 x 13 x 7 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which
	A dead cedar 8 ins. diam bears N. 35° W. 33 lks. dist marked 1/4 S. 13 B.T.
	A dead cedar 18 ins. in diam bears N. 79° E. 11 lks. dist marked 1/4 S. 18 B.T.
46.50	Boone Spring Trail bears N.W. & S.E. on Summit ridge 200 ft. high
80.00	Set a sandstone 12 x 9 x 6 ins. 8 ins. in the ground for cor to secs. 13, 18, 19 & 24 marked 3 notches on N. & & S. 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.
	A cedar 10 ins. diam. bears S. 18° 30' W. 19 lks. dist — T. 3 S. R. 24 E. S. 24 B.T.
	A cedar 12 ins. diam. bears N. 14° W. 48 lks. dist. and T. 3 S. R. 24 E. S. 13 B.T.

East Boundary of T. 3 S. R. 24 E.

chs	
	No other available trees within limits Land broken mountains Soil 3rd rate, rocky. Scattering cedars on 80.00 chs. Mountainous on 80.00 chs
	June 9th 1900. At 7 h. a. m I met I set off 40° 33' N. on the lat arc and 22°57' N. on the decl. arc and determined with the solar a true Meridian at the cor. to secs 13.18.19 & 24 Thence I run South on a true line bet secs. 19 & 24
6.50	Wash 10 lks. wide 3 ft. deep drains S.W.
11.50	Ridge Spur 15 ft. high bears S.W.
20.00	Spring Creek (dry at this point) runs S.E. in bottom of hollow 50 ft deep
25.00	Ridge 25 ft. high bears NW. & SE.
32.50	Wash 10 lks wide 2 ft. deep drains S.E.
40.00	Set a limestone 15 x 12 x 12 ins 10 ins. in the ground for 1/4 sec cor. marked 1/4 on W. face from which A cedar 6 ins. diam bears S. 58° W. 33 lks. dist. mar' 1/4 S. 24 B.T. A cedar 8 ins. diam bears S. 62° E. 31 lks dist. marked 1/4 S. 19 B.T.
44.00	Ridge Spur 50 ft. high bears S.E.
55.00	Wash 10 lks. wide 3 ft deep drains S.E.
63.00	Wash 20 lks. wide 5 ft. deep drains S.E.
79.00	Gully 20 ft. deep drains S.E.
80.00	Set a sandstone 12 x 10 x 6 ins. 8 ins. in the ground for cor. to secs 19. 24. 25 & 30 marked 4 notches on N. and 2 on S. edges dug pits 18 x 18 x 12 ins in each sec. 5 1/2 ft. dist and raised a mound of earth 4 ft. base 1 1/2 ft high W. of cor Land broken mountains Soil 2nd rate, sandy.

East Boundary of T. 3 S. R. 24 E.

Chs. Some scattering cedars
Mountainous on 80.00 chs.

South on a true line
bet. secs 25 & 30

3.00	Road bears E. & W.
10.00	Gully 10 ft. deep drains SE.
15.00	Ascend precipitous N. slope
27.50	Enter plateau 150 ft. high bears NW. & SE.
	Have scattering cedars
40.00	Set a sandstone 12 x 10 x 6 ins. 8 ins. in the gr for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
50.00	Have plateau — descend precipitous SW. slope
69.00	Enter Island Park Basin
75.00	Wash 20 lks. wide 10 ft. deep drains SE.
79.00	Right bank of Green River on a large westerly loop is 5 chs East.
80.00	Set a sandstone 20 x 15 x 8 ins. 15 ins. in the gr for cor to secs. 25. 30. 31 & 36 marked 5 notches on N. and 1 on S. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
	Pits impracticable
	Thomas Lynn's house bears S. 88° 20' E. 74.50 chs dist.
	H. C. Rupp's and May Rupp's house bears S. 85° E. 85.50 chs. dist.
	Land mostly broken hills
	Soil 2nd and 3rd rate sandy or rocky
	Scattering cedars on N. 27.00 chs
	Mountainous on N. 69.00 chs.

South on a true line
bet. secs 31 & 36

East Boundary of T. 3 S. R. 24 E.

chs	
5.00	Leave Island Park Basin – Ascend prominent NE. slope
34.50	Enter rolling plateau 150 ft above Green River bears NW. & SE.
40.00	Set a sandstone 15 x 15 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
50.00	Gorge 100 ft. deep drains NE.
61.50	Leave plateau descend broken SW. slope
80.00	Near NE. edge of Rainbow Park intersect my random line for the S. Bdy of this Tp. 28.95 chs W. of my temp. cor. to Tps. 3 & 4 S. Rgs 24 & 25 E. where I set a sandstone 20 x 18 x 10 ins. 15 ins. in the ground for permanent cor. to Tps. 3 & 4 S. Rgs 24 & 25 E. 3 S. on NE., 25 E. on SE., 4 S. on SW. 24 E. on W. face and marked, 6 notches on each edge and raised a mound of stone 3 ft base 2 ft high S. of cor. Pits impracticable
	Land mostly broken mountains
	Soil 2nd and 3rd rate, sandy or rocky.
	A few scattering cedars on the slopes
	Mountainous on 80.00 chs
	Note: I destroy temp. cor. to T. 3 & 4 S. Rgs 24 & 25 E.
	June 9th 1900

For general description see end of field notes of the survey of subdivisions of this Tp.

Edgar F. Harmston
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

...ing 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.*

In final affidavits see Lark W. Tp 3 S R 22 E.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

....., United States Deputy Surveyor, in surveying all

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

.....

.....

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

meridian, ... of ..... 72 ..... which are represented

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

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

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

...ral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

In final affidavits see Lark W. Tp 3 S R 22 E.

...cribed and sworn to before me this .....

day of ....., 189

SEAL

.....

...

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..., United States Deputy Survey. 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 Su General for ....., the Manual of Surveying Instructions, and the laws United States, surveyed all those parts or portions of

.....

.....

.....

..... of the

..... 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 accordan the 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.

For final affidavit see Cook W. Tp 3 S. R 22 E.

.....

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 October 25, 1902,

The foregoing field notes of the survey of The West East & South Boundaries of Township 3 South Range 24 East of the Salt Lake Base & Meridian, Utah

executed by Adolphe Jesson & Edgar F. Harmon under ~~his~~ their contract No. 235, dated December 19, 1899, havin critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

Edward H. Anderson

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 G

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BOOK A-339

FIELD NOTES

OF THE Fie SURVEY and ordrancment OF THE

South Boundary

of

T. 2 S. – R. 24 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyor,

der ~~his~~ these Contract No. 235, dated December 19th, 1899

rvey commenced June 6th, 1900

rvey completed June 8th, 1900

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1-72-39 ✓

1.77.50 ✓

1 75 00 ✓

3.00

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox chainman

John Holmes "

Josiah Simmons Moundman

Albert Kone Axeman

Craig Harmdon Flagman

For preliminary affidavits see book B, Tp 3 S. R 31 E.

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BOOK A-339

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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 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
.....

..... *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 tr
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
survey of .....

..... *Flagm*

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

SEAL

.....

.....

Retracement & resurvey of the South Boundary of T. 2 S. R. 24 E.

Survey commenced June 6th 1900

June 6th 1900 – At the established cor. of Tps 2 & 3 S. Rgs 24 & 25 E. Salt Lake Meridian heretofore described I set off 22°41' N. on the decl. arc and at 12 h. m. t. m. t observe the sun on the Meridian the resulting lat. is 40° 36' N.

Thence I run

S. 89° 57' W. on a blank line retracing the South Boundary of T. 2 S. R. 24 E.

I find some of the corners nearly obliterated and the entire line out of alinement – At 3.12 chs 5.0 lks I reach a point 2.73 chs. N. of the established cor. of secs 4. 5. 32 & 33 where the subdivided part of T. 2 S. R. 24 E. begins. Thence I run

S. 89° 57' W. on a blank line retracing the S. Bdy of sec. 32:

At 37.00 chs. I fall 34 lks. N. of the original 1/4 sec. cor.
At 75.50 chs fall 68 lks. N. of the original cor of secs 5. 6. 31 & 32 – Thence I run

S. 89° 57' W. on blank line retracing the S. Bdy of sec. 31
At 40.00 chs fall 37 lks. N. of the established 1/4 sec. cor.
At 76.89 chs intersect the Range line in T. 2 S. Rgs 23 & 24 E. 71 lks. N. of the established cor. to T. 2 S. Rgs. 23 & 24 E. heretofore described.

June 7th. At this cor. I set off 22°47' N. on the decl. arc and at 12 h. m. t. m. t observe the sun on the Meridian the resulting lat. is 40°36' N.

Thence – computing the courses from the fallings – I run

N. 89° 25' E. on a re-tracement line on the S. Bdy of sec. 31 T. 2 S. R. 24 E.

On high rolling plateau known as Diamond Mountain

16.25 Intersect cor to T. 3 S. Rgs 23 & 24 E. established by me in this survey

36.89 Intersect the established 1/4 sec. cor on S. Bdy of sec 1

chs.	
	which is a sandstone 12x6x6 ins. set marked and witnessed as described by the Surveyor General
67.40	Have plateau – Descend S.W. slope
73.40	Hollow 75 ft. deep drains S.W.
76.89	Intersect the established cor. of secs. 31 & 32 which is a sandstone 18x12x10 ins. set, marked and witnessed as described by the Surveyor General.
	Land broken plateau and slope
	Soil 3rd rate, rocky.
	No Timber.
	Mountainous on 76.89 chs.

N. 89° 26' E. on retracement line on S. Bdy of sec. 32 T. 2 S. R. 24 E.

6.50	Ridge spur 40 ft. high bears S.E.
16.50	Gulch 100 ft. deep drains S.E.
19.50	Gulch 100 ft. deep drains S.
24.50	Ridge spur 100 ft. high bears S.
30.50	Gulch 100 ft. deep drains S.
38.50	Intersect the established 1/4 sec. cor. on S. Bdy of sec. 32 which is a sandstone 20x12x8 ins. set, marked and witnessed as described by the Surveyor General
39.50	Ridge spur 100 ft. high bear S.
49.00	Descend steep N.E. slope
53.00	Enter northeast slope of broken basin
69.50	Enter dense cedars
71.50	Gully 10 ft. deep drains S.E.
75.50	Intersect the established cor. of secs 32 & 33 which is a sandstone 24x12x2 ins. set, marked and witnessed as described by the Surveyor General
	Land mostly broken mountains
	Soil 3rd rate, rocky.
	Dense cedars on E. 5.50 chs
	Mountainous or dense cedars on 57.50 chs

Re-survey of the S. Bdy of T. 2 S. R. 24 E.

chs | Note: From the cor of secs. 32 & 33 to the East Bdy. of the Tp. there are no Subdivisions on either side of the S. Bdy line which as shown by my random line is deficient in alinement beyond the limit therefore from this point East I establish a new S. Bdy on a due East course throwing the deficiency of measurement on the old subdivision in the most westerly half mile and carefully destroying all corners on that part of the old line one after another as I reach them.

East on a resurvey line
bet secs 4 & 33

17.00 Wash 10 lks wide 8 ft. deep drains S.E.

32.50 Set a sandstone 15 x 12 x 9 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
Pits impracticable
A cedar 6 ins. diam bears S. 40° W. 13 lks. dist marked 1/4 S. 4 B.T.
No other tree on N. side of line within limits

35.50 Gulch 30 ft deep drains S.E.

50.50 Gully 15 ft. deep drains S.

72.00 Gully 15 ft. deep drains S.

72.50 Set a sandstone 15 x 9 x 7 ins. 10 ins. in the ground for cor. of secs 3. 4. 33 & 34 marked 3 notches on E. & W. edges and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.
Pits impracticable
A pinion 8 ins. diam bears S. 21° E. 38 lks. dist
ed T. 3. S. R. 24 E. S. 3 B.T
A pinion 10 ins. diam. bears S. 20° W 50 lks. dist
ed T. 3 S. R. 24 E. S. 4 B.T.
No other available trees within limits
Land broken S.E. slope
Soil 3rd rate, rocky.
Scattering cedar and pinion pine on 72.50 chs

Re-survey of S. Bdy of T. 2 S. R. 24 E.

chs

June 8th 1900. At 7 h. a. m. l. m. t I set off 40° 36.' N. on the lat. arc, 22° 52' N on the decl. arc and determine with the Solar a true Meridian at the re-established cor. to secs 3. 4. 33 & 34
Thence I run

East on a re-survey line
bet. secs 3. & 34

3.50 Descend precipitous E. slope
17.50 Hollow 150 ft. deep drains S.E.
23.00 Ridge 150 ft. high bears N & S.
35.50 Descend precipitous E. slope
40.00 Set a sandstone 15 x 12 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable
A piñon 8 ins. diam. bears S. 24° E. 56 lks. dist. marked 1/4 S. 3 B. T.
No other available trees within limits
44.25 Gulch 150 ft. deep drains S.E.
50.00 Enter plateau bears S.E. & NW.
60.00 Leave plateau descend precipitous N.E. slope
69.00 Gulch 200 ft. deep drains S.E. – Leave scattering cedars
80.00 Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground for cor. of secs 2. 3. 34 & 35 marked 2 notches on E. 4 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land Mountainous
Soil 3rd rate, rocky.
Scattering piñons & cedars on W. 69.00 chs
Mountainous on 80.00 chs

East on a re-survey line
bet secs. 2 & 35

5.00 Bottom of gulch 200 ft. deep drains S.

Re-survey of S. Bdy Tp. 2 S. R. 24 E.

Chs	
26.00	Ridge spur 200 ft. high bears S.E. – Enter ceda
31.50	Hollow 100 ft. deep drains S.E.
35.00	Hollow 75 ft. deep drains S.
40.00	Set a sandstone 18×15×9 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face. from which
	A cedar 15 ins. diam. bears N. 7° E. 9 lks. dist marked 1/4 S. 35 B.T.
	A cedar 12 ins. diam bears S. 60° W. 10 lks. dist. marked 1/4 S. 2 B.T.
56.50	Hollow 30 ft. deep drains S.
62.00	Ridge spur 100 ft. high bears S.
69.00	Hollow 75 ft. deep drains S.
72.00	Ridge spur 100 ft. high bears S.
75.00	Wash 30 lks. wide 20 ft. deep drains S.W. – Leave Cedar – Enter flat.
80.00	Set a sandstone 15×10×5 ins. 10 ins in the ground for cor of secs. 1. 2. 35 & 36 marked 1 notch on E. 5 on W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Land mostly mountainous
	Soil 3rd rate, rocky.
	Cedars on 49.00 chs.
	Mountainous or dense cedars on W. 75.00 chs

East on a resurvey line
bet. secs. 1 & 36

2.00	Boone Spring Trail bears N.W. & S.E.
40.00	Set a sandstone 12×10×6 ins. 8 ins. in the ground for 1/4 sec. cor marked 1/4 on N. face. dug pits 18×18×12 ins. E. & W. of stone 3 ft. dist. and raised a mound of earth 3½ ft. base 1½ ft high N. of cor.
45.00	Leave flats – Enter piñon and cedars
47.00	Ravine 15 ft. deep drains S.E.
51.00	Ravine 10 ft. deep drains S.

Re-survey S. Bdy T. 2 S. R. 24 E.

Chs
64.00 Ravine 15 ft. deep drains S.
80.00 Intersect E. Bdy of Tp. 3 S. R. 24 E. 3.00 chs. S. of the established cor. of Tps 2 & 3 S. Rgs. 24 & 25 E. previously described – At point of intersection I set a limestone 14 x 10 x 6 ins. 10 ins. in the ground for closing cor of Tps. 2 & 3 S. Rg. 24 E. marked C.C. on W. with 6 grooves on N. S. and W. faces
from which
A pinion 12 ins. diam bears S. 30 W. 113 lks dist. marked T. 3 S. R. 24 E. S. 1 B.T.
A pinion 4 ins. diam. bears N. 50 W. 50 lks. dist. marked T. 2 S. R. 24 E. S. 36 B.T.
Land broken
Soil 2nd rate, sandy.
Cedars and pinion pine on E. 35.00 chs
Note: From the established cor of Tps 2 & 3 S. Rgs 24 & 25 E. I destroy all marks pertaining to R. 24 E.

June 8th 1900

For general description see end of subdivision notes of this Tp.

Edgar F. Hamston
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 .....

.....

...ing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

For final affidavits see book T. If 1 S. R 23 E

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 .....

..... 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

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

...eral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

For final affidavits see book T. If 1 S. R 23 E

.....

...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, 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 Surv General for ....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of

.....

.....

.....

..... of the ..... 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 sole swear that all the corners of said survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surv 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 s the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

For final office dated see Salt T. Ap 15 R 2 6

.....
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 October 25, 1902, 18

The foregoing field notes of the survey of the South Boundary of Township 2 South Range 24 East of the Salt Lake Base and Meridian Utah

.....

.....

.....

.....

executed by Adolphe Jessen and Edgar F. Harmston under his contract No. 235, dated December 19, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Gen.

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

.....
United States Surveyor Ge

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N.

FIELD NOTES

13

OF THE SURVEY OF THE

SUBDIVISION LINES OF

TOWNSHIP 3 SOUTH,

RANGE 24 EAST.

Of the Salt Lake *Base and* *Meridian,*

U T A H.

AS SURVEYED BY

Edgar F. Harmston, *United States Deputy Surveyor,*

under his Contract No. 235 *dated* December, 19th, *189*9.

Survey commenced October 5th. 1906, *189*

Survey completed October, 10th. 1906. *189*

6—1M

high 21-75-75x

low 9-71-62x

NAMES AND DUTIES OF ASSISTANTS.

Charles L. Bailey,	Chainman
Craig Harmston,	Chainman
Mellette Harmston,	Moundman.
Bert Shisler,	Axman,
Bradner Bailey,	Flagman.

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Volume

#

R0339

BOOK A-339

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PRELIMINARY OATHS OF ASSISTANTS.

We, Charles L. Bailey and Craig Harmston,
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lev
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
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the su
the subdivision lines of T.3 S., R.24 E., of the Salt Lake Base and
ridian, Utah.

Charles L. Bailey, Chain
Craig Harmston, Cha

Subscribed and sworn to before me this 10th.
day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public

~~We~~ I, Mellette Harmston,
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establis
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the su
the subdivision lines of T.3 S., R.24 E., of the Salt Lake Base an
ridian, Utah.

Mellette Harmston, Mo
, Moun

Subscribed and sworn to before me this 10th.
day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public

~~We~~ I, Bert Shisler, ~~axmen~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of c
and other duties, according to instructions given ~~us~~ me, to the best of our skill and ability, in the su
the subdivision lines of T.3 S., R.24 E., of the Salt Lake Base an
Meridian, Utah.

Bert Shisler, Ax
, Ax

Subscribed and sworn to before me this 10th.
day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public

I, Bradner Bailey, 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 the subdivision lines of T.3 S., R.24 E.,
of the Salt Lake Base and Meridian, Utah.

Bradner Bailey, Fla

Subscribed and sworn to before me this 10th.
day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public

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SUBDIVISION OF T.3 S.R 24 E.

Chains

Survey commenced Oct.5,1906 .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 the least count of the latitude and declination arcs.

I examine the adjustments of the transit,and find the levels and line of collimation in adjustment;then,to test the solar apparatus,by comparing its indications,resulting from solar observations made during a.m., and p.m., hours, with a meridian determined by observations on Polaris,I proceed as follows:-

At the cor.of Tps. 3 and 4 S.,Rs.24 and 25 E.,lat.40°30'N. long.109°10'W.,I set off 40°30' on lat.arc;4°37'S. on decl. arc,and at 2h.49m.,p.m.,l.m.t.,determine a meridian with the solar and mark a point thereof on a peg firmly driven in the ground,5 chs.N of the cor.

At 6h.39m.,p.m., [illegible],by my watch which is 3m.fast of l.m.t.,I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N of my station. (October,5th.1906.

October,6:At 6h.11m.,a.m.,l.m.t., I lay off the azimuth of Polaris 1°34'to the west,and mark the meridian thus determined,by driving a nail in the peg set October,5th.on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h.48m.,a.m.,l.m.t.,I set off 40°30' on lat.arc;4°53'S. on decl.arc,and mark a point in the meridian determined with the solar,by a nail driven in the peg already set 5 chs.N of my station;this mark falls 0.5 ins.east of the meridian established by the Polaris observation.

The solar apparatus by a.m.,and p.m., observations,defines positions for meridians,respectively about 0'21" west and

Chains	
	0'26" east of the meridian established by the Polaris o.
	vation;therefore,I conclude that the adjustments of the
	instrument are satisfactory.
	The magnetic bearing of the true meridian,at 7h.15m.,a
	is N.15°55'W.,the angle thus determined gives the mag.d.
	15°55'E.

	I commence at the cor.of secs.1,2,35 and 36,on S bdy.c
	Tp. heretofore described.
	Thence I run
	N.0°1'W.bet.secs.35 and 36.
	Descend.
5.70	Spring Branch 2 lks.wide,1 in.deep,in bottom of hollow,
	50 ft.below cor.flows SE. Ascend.
18.00	Enter scattering cedars.
30.00	Enter rolling bench 150 ft.above hollow,bears NW and SE
	Ascend gradually over same.
40.00	Set a sandstone 20x10x4 ins.15 ins.in the ground,for $\frac{1}{4}$
	cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.
	$1\frac{1}{2}$ ft.high W of cor. from which
	A cedar 4 ins.diam.bears S.57°15'E.179 lks.dist.marked
	$\frac{1}{4}$ S 36 B T.
	No other trees within limits.
47.00	Leave bench,descend. Now over broken E slope.
73.00	Bottom of hollow 100 ft.below bench drains SE. Ascend.
77.00	Top of ridge spur 100 ft.above hollow projects SE.
80.00	Set a limestone 14x14x4 ins.10 ins.in the ground for co
	secs. 25,26,35,and 36,marked 1 notch on S;1 notch on E
	from which
	A cedar 10 ins.diam.bears N.18°15'E.113 lks.dist.marked
	T 3 S.R 24 E.S 25 B T.
	A cedar 6 ins.diam.bears S.17°30'E,37 lks.dist.marked
	T 3 S.R 24 E.S 36 B T.
	A cedar 6 ins.diam.bears S.44°30'W.58 lks.dist.marked
	T 3 S.R 24 E.S 35 B T.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
	A cedar 7 ins.diam.bears N.35°30'W.102 lks.dist.marked T 3 S.R 24 E.S 26 B T.
	Land bench and very broken slopes.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 62 chs.
	Some grass.
	Mountainous land on 80.chs.
	East on a random line bet.secs. 25 and 36.
40.00	Set temp.¼ sec.cor.
30.00	Intersect E bdy.of Tp.at cor of secs.25,30,31,and 36,heretofore described.
	Thence I run
	West on a true line bet.secs.25 and 36.
	Ascend precipitous E slope.
6.00	Enter bench bears N and S. Descend gradually over same.
36.00	Road to Island Park bears N and S.
37.00	Enter scattering cedars.
40.00	Set a limestone 15x10x4 ins.10 ins.in the ground for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears S.10°15'W. 260.lks.dist.marked ¼ S 36 B T.
	A cedar 4 ins.diam.bears N.50°30'E. 162 lks.dist.marked ¼ S 25 B T.
50.00	Leave bench;descend.
60.00	Bottom of hollow 75 ft.below bench drains SW. Ascend.
65.00	S point of bench spur 30 ft.above hollow. Descend.
69.35	Bottom of hollow 150 ft.below bench drains SE. Ascend.
79.00	Top of ridge spur 150 ft.above hollow projects SE.
80.00	The cor.of secs. 25,26,35,and 36.
	Land broken bench ridges.
	Soil 2d,and 3d.rate;stony.
	Undergrowth,sage brush. Timber cedars.
	Mountainous land 80.00 chs.

Chains	
	N.0°1'W. bet.secs. 25 and 26; descending over bench spur through scattering cedars.
2.00	Leave bench spur;descend.
8.00	Bottom of hollow 100 ft.below spur drains SE.
	Now along SW slope of spur. Ascend.
13.25	Top of bench spur 100 ft.above hollow,projects SE.
	Descend over broken slope;leave cedars.
25.00	Bottom of hollow 150 ft.below spur drains SE. Ascend.
28.50	Top of hill 150 ft.above hollow. Descend.
32.00	Bottom of hollow 150 ft.below hilltop drains SE.
	Now ascend along broken slope.
40.00	Set a sandstone 14x12x4 ins.10 ins.in the ground for ¼ cor.marked ¼ on W face,and raise a mound of stone 2 ft.b 1½ ft.high W of cor. Pits impracticable.
59.50	Enter broken bench bears NW and SE.
75.45	Descend from bench, bears NE. and SW .
80.00	Set a sandstone 18x8x6 ins.12 ins.in the ground for cor of secs.23,24,25,and 26,marked 2 notches on S;1 notch on edge,and raise a mound of stone 2 ft.base 1½ ft.high W cor. Pits impracticable.
	Land mountainous.
	Soil 4th.rate;mostly clay.
	A little shadscale;no other vegetation.
	No timber.
	Mountainous land on 80.chs.

October,6th.1906:I set off 4°53'S.on the decl.arc,and 11h.48m.,a.m.,l.m.t.,observe the sun on the meridian an obtain on the lat.arc the reading,40°32',which agrees w other data.

Thence I run

East on a random line bet.secs.24 and 25!

40.00	Set a temp.¼ sec.cor.
80.04	Intersect E bdy.of Tp.14 1ks.S of cor.of secs.19,24,25, and 30,heretofore described.

Thence I run

SUBDIVISION OF T 3 S.R 24 E.

Chains	
	S.89°54'W.on a true line bet.secs.24 and 25.
	Descend. In scattering cedars.
14.00	Bottom of hollow 30 ft.below cor.drains SE. Ascend.
22.00	Top of bench spur 100 ft.above hollow projects SE.
	Descend.
30.00	Bottom of hollow 75 ft.below spur drains SE. Ascend.
37.75	Enter bench bears N and S. Descend gradually over same.
40.02	Set a limestone 18x10x6 ins.12 ins.in the ground for ¼ sec.cor.marked ¼ on N face, from which:
	A cedar 5 ins.diam.bears N.82°00'E. 193 lks.dist.marked ¼ S 24 B T.
	A cedar 4 ins.diam.bears S 37°00'E. 280 lks.dist.marked ¼ S 25 B T.
56.50	Leave bench, bears N. and S. Descend.
59.15	Bottom of hollow 150 ft.below bench drains S. Ascend.
64.50	Top of bench spur 100 ft.above edge of bench projects S.
	Descend.
72.00	Leave cedars.
76.50	Leave bench, bears N. and S. Descend.
80.04	The cor.of secs.23,24,25,and 26.
	Land broken and mountainous.
	Soil 3d.and 4th.rate;rocky.
	Timber,scattering cedars on 72 chs.
	Sage brush and some grass.
	Mountainous land on 80.04 chains.

	N.0°1'W. bet.secs. 23 and 24.
	Descend.
1.00	Bottom of hollow 100 ft.below cor.drains SW. Ascend.
7.50	Top of ridge spur 100 ft.above hollow projects SW.
	Descend. Enter scattering cedars.
36.00	Bottom of hollow 75 ft.below spur drains SW. Ascend.
40.00	Set a sandstone 20x8x6 ins.15 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. from which

Chains	
	A cedar 5 ins.diam.bears N.20°00'W.39 lks.dist.marked ¼ S 23 B T. No other trees within limits.
41.00	Enter sage bench,bears SW. and NE.
58.50	Leave bench;descend.
70.00	Bottom of hollow 150 ft.below bench drains SW. Ascend.
75.00	Top of ridge spur 150 ft.above hollow projects SW. Descend.
80.00	Set a sandstone 20x12x8 ins.15 ins.in the ground for cor. of secs.13,14,23,and 24,marked 1 notch on E;3 notches on S edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable. From which
	A cedar 8 ins.diam.bears N.46°00'E.50 lks.dist.marked T 3 S.R 24 E.S 13 B T.
	A dry cedar 8 ins.diam.bears S.12°00'W. 21 lks.dist.marked T 3 S.R 24 E.S 23 B T.
	No other trees within limits.
	Land mountainous.
	Soil 1st.and 3d.rate,rocky.
	Timber,scattering cedars on 72.50 chs.
	Sage brush,some grass.
	Mountainous land on 80.chs.

	N.89°54'E.on a random line bet.secs. 13 and 24.
40.00	Set temp.¼ sec.cor.
80.15	Intersect E bdy.of Tp.9 lks.S of cor.of secs.13,18,19, and 24,heretofore described.
	Thence I run
	S.89°50'W. on a true line bet.secs.13 and 24.
	Descend.
5.00	Bottom of hollow 30 ft.below cor.drains S.20° W. Ascend.
10.50	Top of ridge spur 40 ft.above hollow projects SW. Descend. Enter scattering cedars.
17.00	Spring creek,channel 25 lks.wide 10 ft.deep;small stream of seepage water in bottom,drains SE. Ascend.
17.50	Enter cottonwood grove.

Chains	
30.00	Leave same.
38.00	Top of ridge spur 30 ft.above Spring creek projects NE.
	Descend.
40.07½	Set a limestone 12x10x6 ins.8 ins.in the ground for ¼ sec.
	cor.marked ¼ on N face,from which
	A cedar 6 ins.diam.bears S.3°00'W. 32 lks.dsit.marked
	¼ S 24 B T.
	A cedar 10 ins.diam.bears N.20°00'W. 33 lks.dist.marked
	¼ S 13 B T.
47.50	Bottom of hollow 50 ft.below spur drains NE. Ascend.
48.50	Top of ridge 75 ft.above hollow bears N and S. Descend.
55.00	Enter sage bench bears N and S. Now across same.
62.00	Leave bench;descend.
80.15	The cor.of secs.13,14,23 and 24.
48.50 / 31.65	Land 48.50 chs.mountainous;31.66 chs.level.
	Soil 2d.and 3d,rate,rocky.
	Timber,cedars on 69.65 chs.
	Sage brush;some grass.
	Mountainous land on 48.50 chs.
	The land north of this cor.being high broken mountains and non-agricultural,I do not survey same.

	From cor.of secs.2,3,34,and 35,on S bdy.of Tp.heretofore described
	I run
	N.0°2'W.bet.secs.34 and 35. Ascend.
10.00	Enter higher bench bears SE and NW.
23.50	Descend from bench.
26.50	Bottom of hollow 20 ft.below bench drains SE. Ascend.
40.00	Set a sandstone 12x9x6 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
65.00	Descend.
71.00	Bottom of hollow 10 ft.deep drains SE. Ascend.
80.00	Set a sandstone 18x10x8 ins.13 ins.in the ground for cor.of

Chains	
	secs.26,27,34 and 35,marked 1 notch on S;2 notches on E edge,and raise a mound of stone 3 ft.base 1½ ft.high N of cor. Pits impracticable.
	Land rolling,heavy bench.
	Soil 2d.rate,gravelly.
	No timber.
	Sage brush;some grass.
	Mountainous land on 30.chs.
	East on a random line bet.secs.26 and 35.
40.00	Set temp.¼ sec.cor.
79.93	Intersect N and S line 21 lks.N of cor.of secs. 25,26,35, and 36.
	Thence I run
	N.89°51'W.on a true line bet.secs.26 and 35.
	Descend in cedars.
6.00	Bottom of hollow 40 ft.below cor.drains SE. Ascend.
15.00	Enter bench 100 ft.above hollow bears SE and NW.
	Now across same.
26,30	Leave bench;descend.
33.40	Spring branch 1 lk.wide,1 in.deep,good water,in bottom of hollow 100 ft.below bench,drains S.20°E. Ascend.
37.00	Top of bench spur 100 ft.above hollow projects SE. Descend
39.96½	Set a sandstone 16x9x4 ins.11 ins.in the ground for ¼ sec cor.marked ¼ on N face, from which
	A cedar 8 ins.diam.bears S.4°00'E.187 lks.dist.marked ¼ S 35 B T.
	A cedar 10 ins.diam.bears N.24°15'W.57 lks.dist.marked ¼ S 26 B T.
42.37	Bottom of hollow 100 ft.below spur drains SE. Ascend.
57.00	Enter bench,bears N and S. Leave cedars.
70.00	Descend to lower bench.
79.93	The cor.of secs.26,27,34 and 35.
	Land broken bench.
	Soil 2d.and 3d.rate,gravelly.

Chains

Timber,cedars on 57.00 chs.

Sage brush;some grass.

Mountainous land on 79.93 chs.

(October,6th.1906.

October 8th:At 7h.48m.,a.m.,l.m.t., I set off 40°31' on lat.arc;5°39'S on decl.arc,and determine a meridian with the solar at the cor.of secs.26,27,34,and 35.

Thence I run

N.0°2'W.bet.secs.26 and 27. Ascend.

5.00 Enter higher bench;ascend gradually over same.

39.00 Enter scattering cedars. Leave bench;descend.

40.00 Set a sandstone 18x15x6 ins.12 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable. from which A cedar 8 ins.diam.bears S.12°15'E.136 lks.dist.marked ¼ S 26 B T. No other trees within limits.

Leave bench;descend;leave cedars.

51.25 Bottom of hollow 100 ft.below bench drains SE. Ascend.

54.25 Enter bench 100 ft.above hollow bears NW and SE.

75.00 Leave bench;descend.

80.00 Set a sandstone 20x16x3 ins.15 ins.in the ground for cor. of secs.22,23,26,and 27,marked 2 notches on S;2 notches on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

Land broken high bench.

Soil 2d.and 3d.rate;gravelly loam.

Timber,scattering cedars on 1 ch.

Sage brush;some grass.

Mountainous land on 80.chs.

S.89°51'E. on a random line bet.secs. 23 and 26.

40.00 Set temp.¼ sec.cor.

80.12 Intersect N and S line 7 lks.S of cor.of secs. 23,24,25, and 26.

Chains	
	Thence I run
	N.89°54'W.on a true line bet.secs.23 and 26.
	Descend precipitous W slope.
1.50	Bottom of hollow 75 ft.below cor.drains SW. Ascend.
	Now over broken bad land slope.
35.00	Top of ridge 200 ft.above hollow bears N and S. Descend.
	To bench 100 ft.below ridge bears N and S.
36.00	Leave bench;descend.
38.00	Bottom of hollow 50 ft.below bench drains SW. Ascend.
40.06	Set a sandstone 12x12x6 ins.8 ins.in the ground for ¼ sec.
	cor.marked ¼ on N face,and raise a mound of stone 2 ft.
	base 1½ ft.high N of cor. Pits impracticable.
40.55	Top of ridge spur 50 ft.above hollow projects SW. Descend.
42.70	Bottom of hollow 50 ft.below spur drains S. Ascend.
48.00	Top of ridge 60 ft.above hollow bears S.5 chs.N.5 chs.
	Descend.
50.00	Bottom of hollow 75 ft.below ridge drains SE. Ascend.
59.50	Enter bench,bears N and S. Ascend.
69.50	Top of ridge spur 50 ft.above bench projects S. Descend.
	To bench.
75.00	Leave bench;descend.
80.12	The cor.of secs.22,23,26,and 27.
	Land broken and rolling mountains.
	Soil 3d.and 4th.rate,rocky.
	No timber.
	Sage brush;no grass.
	Mountainous land on 80.12 chs.

	N.0°2'W.bet.secs.22,and 23. Descend.
1.45	Bottom of hollow 30 ft.below cor.drains SW. Ascend.
7.50	Top of ridge spur 60 ft.above hollow projects SW. Descend
15.00	Head of hollow drains SW. Ascend.
31.00	Top of ridge spur 100 ft.above head of hollow projects SE.
	Descend along E slope.
35.00	Small alkali spring 20 lks.W of line,drains E.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
40.00	Set a sandstone 12x12x4 ins.8 ins.in the ground for $\frac{1}{4}$ sec. cor.marked $\frac{1}{4}$ on W face and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
56.00	Bottom of hollow 50 ft.below cor.drains SE.
	Enter cedars.
62.70	Top of ridge spur 50 ft.above hollow projects SE.
	Leave cedars;descend.
80.00	Set a sandstone 14x12x5 ins.10 ins.in the ground for cor. of secs.14,15,22,and 23,marked 3 notches on S;2 notches on E edge,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	Land broken mountains.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 6.70 chs.
	A little grass.
	Mountainous land on 80.chs.

	S.89°54'E. on a random line bet.secs. 14 and 23.
40.00	Set a temp.$\frac{1}{4}$ sec.cor.
80.10	Intersect N and S.line 5 lks.S of cor.of secs. 13,14,23, and 24.
	Thence I run
	N.89°56'W.on a true line bet.secs.14 and 23.
	Descend.
8.00	Bottom of hollow 30 ft.below cor.drains SW. Ascend.
14.00	Top of ridge spur 50 ft.above hollow projects SW.
	Descend.
19.50	Bottom of hollow 50 ft.below spur drains S. Ascend.
29.00	Top of ridge spur 45 ft.above hollow projects SE.
	Descend.
35.00	Bottom of hollow 50 ft.below spur drains SE.
	Now ascend in hollow.
40.05	Seta sandstone 14x12x10 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and dig pits 18x18x12 ins.E and W of stone 2 ft.dist.and raise a mound of earth $3\frac{1}{2}$ ft.

Chains	
	base 1½ ft.high N of cor.
	On S side of same hollow draining E.
42.00	Head of same hollow drains NE. Ascend.
43.00	Top of ridge spur 50 ft.above head of hollow projects NE.
	Descend.
49.50	Bottom of hollow 50 ft.below spur drains NE. Ascend.
53.00	Top of ridge spur 40 ft.above hollow projects S 3 chs.
	Descend.
59.00	Bottom of hollow 30 ft.below spur drains S. Ascend.
65.00	Top of ridge spur 50 ft.above hollow projects S. Descend
77.50	Wash 8 lks.wide 3 ft.deep,drains SE. Ascend.
80.10	The cor.of secs. 14,15,22,and 23.
	Land mountainous.
	Soil 3d.rate,rocky.
	Timber,a few scattering cedars.
	Sage brush and a little grass.
	Mountainous land on 80.10 chs.

The land north of this cor.being high broken mountains and non-agricultural,I do not survey same.

October 8th.1906: I set 5°44'S.on the decl.arc,and at 11h 48m.,a.m.,l.m.t., observe the sun on the meridian,and obta on the lat.arc;the reading 40°30',which agrees with other data.

From the cor.of secs.3,4,33 and 34,on S bdy.of Tp.heretofore described

I run

N.0°2'W.bet.secs.33 and 34.

	Descend.
3.00	Leave bench spur;descend to hollow.
7.50	Bottom of hollow 50 ft.below cor.drains E. Ascend.
12.50	Road to Island Park bears E and W.
22.00	Top of ridge spur 50 ft.above hollow projects S.75° E.
	Descend.
35.50	Bottom of hollow 50 ft.below spur drains SE. Ascend.

Chains	
30.00	Ascend up broad bench spur to bench.
40.00	Set a limestone 14x10x10 ins.9 ins.in the ground for ¼ sec. cor.and dig pits 18x18x12 ins.N and S of stone 3 ft.dist. and raise a mound of earth 3½ ft.base 1½ ft.high W of cor.
	Ascend gradually up bench.
80.00	Set a sandstone 16x10x8 ins.11 ins.in the ground for cor. of secs. 27,28,33,and 34,marked 1 notch on S;3 notches on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil 2d.rate,gravelly.
	Sage brush;some grass.
	No timber.

	East on a random line bet.secs.27 and 34.
40.00	Set temp.¼ sec.cor.
80.04	Intersect N and S line 7 lks.N of cor.of secs.26,27,34, and 35.
	Thence I run
	N.89°57'W. on a true line bet.secs.27 and 34.
	Descend.
9.00	Wash 20 lks.wide 6 ft.deep,drains SE. Ascend.
13.00	Enter bench 30 ft.above wash bears NW and SE.
	Now across same.
40.02	Set a sandstone 12x10x8 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on N face and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
45.00	Leave bench;descend.
57.00	Bottom of hollow 50 ft.below bench drains S. Ascend.
62.00	Top of ridge spur 30 ft.above hollow projects S. Descend.
67.50	Bottom of hollow 50 ft.below spur drains S. Ascend.
75.00	Enter bench 50 ft.above hollow bears N and S.
80.04	The cor.of secs.27,28,33,and 34.
	Land rolling.
	Soil 2d.rate,gravelly loam.

Chains	
	Sage brush;some grass.
	No timber.

	N.0° 2'W. bet.secs.27 and 28; over bench.
5.50	Leave bench;descend.
10.00	Head of hollow drains SE. Ascend.
13.50	Top of ridge spur 50 ft.above head of hollow projects SE. Descend.
17.00	Wash 25 lks.wide,8 ft.deep,drains SE.
35.00	Wash 20 lks.wide 5 ft.deep,drains SE.
37.50	Wash 8 lks.wide,3 ft.deep,drains S.20° W.
40.00	Set a sandstone 16x8x8 ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
63.00	Wash 8 lks.wide 2 ft.deep,drains S.15° W. Ascend.
77.00	E slope of clay knoll 75 ft.above wash. Descend.
80.00	Set a sandstone 18x10x8 ins.12 ins.in the ground for cor. of secs.21,22,27 and 28,marked 2 notches on S;3 notches on E edge,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil 3d.rate,gravelly loam.
	Sage brush and white sage.
	No timber.

	S.89°57'E.on a random line bet.secs. 22 and 27.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.81	Intersect N and S line 9 lks.N of cor.of secs.22,23,26, and 27.
	Thence I run
	N.89°57'W. on a true line bet.secs.22,and 27.
	Descend.
3.37	Bottom of hollow 40 ft.below cor.drains SW. Ascend.
8.00	Top of ridge spur 75 ft.above hollow projects SW. Descend.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
11.75	Bottom of hollow 100 ft.below spur drains S. Ascend.
18.55	Enter bench bears NW and SE. 150 ft.above hollow.
23.00	Enter cedars.
38.50	Leave bench;descend.
39.90½	Set a sandstone 20x12x5 ins. 15 ins.in the ground for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 4 ins.diam.bears S.22°45'E.43 lks.dist.marked ¼ S 27 B T.
	A cedar 4 ins.diam.bears N.72°30'E. 108 lks.dist.marked ¼ S 22 B T.
41.85	Bottom of hollow 75 ft.below bench drains SE. Ascend.
47.80	Top of ridge spur 75 ft.above hollow projects SE. Descend.
54.50	Bottom of hollow 150 ft.below spur drains SW. Ascend.
69.00	Top of ridge spur 75 ft.above hollow projects SW. Descend.
74.43	Bottom of hollow 50 ft.below spur drains SW. Ascend.
79.81	The cor.of secs. 21,22,27,and 28.
	Land broken.ridges.
	Soil 2d.and 3d.rate,rocky.
	Timber,cedars on 56.81 chs.
	Sage brush,shadscale;a little grass.
	Mountainous land on 79.81 chs.
	(October,8th.1906.

October,9th.: At 7h.48m.,a.m.,l.m.t., I set off 40°32' on lat.arc;6°02' S. on decl.arc,and determine a meridian with the solar at the cor.of secs.21,22,27,and 28.

Thence I run

N.0° 2'W.bet.secs.21 and 22.

Descend.

1.75	Bottom of hollow 25 ft.below cor.drains SW.
	Ascend over broken slope.
24.00	Top of ridge spur 75 ft.above hollow projects W. Descend.
29.00	Bottom of hollow 75 ft.below spur drains SW. Ascend.
33.00	Enter scattering cedars.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
40.00	Set a sandstone 16x10x5 ins.11 ins.in the ground for ¼ sec.cor.marked ¼ on W face from which
	A cedar 12 ins.diam.bears S.49°30'E. 5 lks.dist.marked ¼ S 22 B T.
	A cedar 6 ins.diam.bears S.74°30'W. 11 lks.dist.marked ¼ S 21 B T.
40.25	Bottom of hollow 15 ft.below cor.drains W. Ascend.
53.81	Precipice 50 ft.deep bears NE and SW. Descend.
54.00	Enter broken basin bears NE and SW.
71.00	Leave same;ascend.
75.00	Top of ridge spur 100 ft.above basin projects SE. Descend gradually.
80.00	Set a sandstone 18x12x6 ins.12 ins.in the ground for cor. of secs.15,16,21,and 22,marked 3 notches on S;3 notches on E edge;T 3 S.on NE;R.24 E. on SE face, from which
	A cedar 4 ins.diam.bears N.43°15'E.22 lks.dist.marked T 3 S.R 24 E.S 15 B T.
	A cedar 8 ins.diam.bears S.5°15'E. 41 lks.dist.marked T 3 S.R 24 E.S 22 B T.
	A cedar 5 ins.diam.bears S.46°15'W. 63 lks.dist.marked T 3 S.R 24 E.S 21 B T.
	A cedar 6 ins.diam.bears N.82°30'W.27 lks.dist.marked T 3 S.R 24 E.S 16 B T.
	Land broken slopes and bench.
	Soil 3d.rate,stony.
	Timber,scattering cedars on 47.00 chs.
	Sage brush;some grass.
	Mountainous land on 80.chs.

	S.89°53'E.on a random line bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N and S line 16 lks.S of cor.of secs. 14,15,22, and 23.
	Thence I run
	West on a true line bet.secs.15 and 22.

Chains	
	Ascend; through scattering cedars.
10.00	Top of ridge spur 100 ft.above cor.projects S.10° E.
	Descend.
20.00	Bottom of hollow 150 ft.below spur drains S.15° E.
	Ascend.
31.50	Top of ridge spur 100 ft.above hollow projects S. [illegible]
36.50	Bottom of hollow 75 ft.below spur. Ascend.
39.00	Top of spur, projects SE[illegible]
40.01	Set a sandstone 18x12x5 ins.12 ins.in the ground for ¼ sec.cor.marked ¼ on N face from which
	A cedar 5 ins.diam.bears S.76°15'W. 22 lks.dist.marked ¼ S 22 B T.
	A cedar 4 ins.diam.bears N.48°30'E. 13 lks.dist.marked ¼ S 15 B T. Descend.
46.40	Bottom of hollow 30 ft.below spur drains S.
	Ascend.
49.75	Top of ridge spur 125 ft.above hollow projects S.2 chs.
	Descend.
64.70	Bottom of hollow 100 ft.below spur drains S. Ascend.
73.00	Top of ridge spur 100 ft.above hollow projects SE.
	Descend.
76.52	Bottom of rocky hollow 50 ft.below spur drains SE.
	Ascend.
80.02	The cor.of secs.15,16,21,and 22.
	Land broken.
	Soil 3d.rate,rocky.
	Timber,scattering cedars on 80.02 chs.
	Mountainous land on 80.02 chs.
	The land north of this cor,being high broken mountains and non-agricultural,I do not survey same.

From the cor.of secs.4,5,32,and 33 on S.bdy.of Tp.heretofore described

I run

N.0°3'W.bet.secs.32,and 33. Ascend.

Chains	
4.00	Top of ridge spur 100 ft.above cor.projects SE. Descend.
10.00	Bottom of hollow 50 ft.below spur drains SE. Ascend.
14.75	Top of ridge spur 75 ft.above hollow projects SE. Descend.
16.50	Head of hollow drains SE. Ascend.
20.00	Top of ridge spur 75 ft.above head of hollow projects SE. Descend.
36.00	Bottom of hollow 75 ft.below spur drains SE. Ascend.
40.00	Set a limestone 12x10x8 ins.8 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
53.00	Top of ridge spur 25 ft.above hollow projects SE. Descend.
63.50	Bottom of hollow 30 ft.below spur drains SE. Ascend.
76.50	Top of ridge spur 75 ft.above hollow projects SW. Descend.
80.00	Set a limestone 12x10x8 ins.8 ins.in the ground for cor. of secs.28,29,32,and 33,marked 1 notch on S;4 notches on E edge,and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft. high W of cor. Pits impracticable.
	Land broken hills and bench.
	Soil 2d,rate sandy and rocky.
	No timber.
	Sage brush;some grass.
	Mountainous land on 80.chs.
	East on a random line bet.secs.28 and 33.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.05	Intersect N and S line 2 lks.S of cor.of secs. 27,28,33, and 34.
	Thence I run
	S.89°59'W.on a true line bet.secs.28 and 33.
	Ascend.

Chains	
6.50	Top of ridge spur 20 ft.above bench projects N. Descend.
7.50	Enter bench;now.across same.
21.50	Leave bench;descend.
24.00	Bottom of hollow 75 ft.below bench drains SE. Ascend.
39.00	Top of bench spur 25 ft.above hollow projects SE. Desce d.
40.02½	Set a sandstone 16x10x6 ins.11 ins.in the ground for ¼ s.c. cor.marked ¼ on N face and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
62.50	Bottom of hollow 25 ft.below spur drains SE. Ascend.
78.00	Top of ridge spur 25 ft.above hollow projects SE.from be ch.
80.05	The cor.of secs.28,29,32,and 33,
	Land broken bench and slopes.
	Soil 2d.rate,sandy loam.
	No timber.
	Sage brush;some grass.

October,9th.1906: I set off 6°07'S.on the decl.arc and at 11h.48m.,a.m.,l.m.t., observe the sun on the meridian and obtain on the lat.arc,the reading 40°31',which agrees with other data.

Thence I run

N.0°31'W.bet.secs.28 and 29.

Ascend.

0.50	Top of bench spur 15 ft.above cor.projects SE. Descend.
16.00	Leave bench;descend.
19.50	Bottom of hollow 40 ft.below bench drains SE. Ascend.
37.50	Enter bench bears NW and SE. Now across same.
40.00	Set a sandstone 14x10x8 ins.10 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
57.00	Leave bench;descend.
59.50	Bottom of hollow 30 ft.below bench drains SE. Ascend.
69.00	Top of ridge spur 50 ft.above hollow;projects SE. Desc.
80.00	Set a sandstone 16x10x6 ins. 11 ins.in the ground,for cor.

Chains	
	of secs.20,21,28,and 29,marked 2 notches on S;4 notches on E edge,and raise a mound of stone 3 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land rolling,broken bench and slopes.
	Soil 2d.rate,sandy loam.
	No timber.
	Sage brush;some grass.

	N.89°59'E.on a random line bet.secs.21 and 28.
40.00	Set temp.¼ sec.cor.
79.96	Intersect N and S line 5 lks.S of cor.of secs. 21,22,27 and 28.
	Thence I run
	S.89°57'W. on a true line bet.secs. 21 and 28.
	Descend.
3.00	Wash 8 lks.wide 3 ft.deep drains SW.
7.50	Wash 5 lks.wide 2 ft,deep drains S.
9.00	Top of ridge spur 25 ft.above wash projects S.20° E.
	Descend.
15.50	Wash 15 lks.wide 3 ft.deep drains S.
18.50	Wash 20 lks.wide 5 ft.deep drains S.
31.00	Enter bench bears N and S.30 ft.above wash.
	Now across same.
39.98	Set a sandstone 14x10x6 ins.10 ins.in the ground for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
51.00	Leave bench;descend.
53.00	Bottom of hollow 15 ft.below bench drains S. Ascend.
55.00	Top of ridge spur 15 ft.above hollow projects S.
	Descend.
59.00	Wash 30 lks.wide 8 ft.deep,drains SE. Ascend.
72.50	Enter bench 30 ft.above wash bears NW and SE.
	Now across same.
79.75	Road bears NW and SE.
79.96	The cor.of secs.20,21,28 and 29.

Chains	
	Land rolling bench.
	Soil 2d.rate,sandy loam.
	No timber.
	Sage brush;some grass.

	N.0° 3'W.bet.secs.20 and 21; over bench.
0.89	Road bears NW and SE.
9.00	Leave bench;descend.
11.00	Bottom of hollow 25 ft.below bench drains SE. Ascend.
15.00	SE point of spur. Descend.
16.00	Enter basin bears NW and SE.
33.07	Wash 24 lks.wide 6 ft.deep drains SE.
38.00	Wash 6 lks.wide 4 ft.deep,drains S.30° E.
40.00	Set a sandstone 20x10x6 ins.15 ins.in the ground for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
54.00	Leave flat;ascend ridge spur projecting S.
80.00	Set a sandstone 16x8x6 ins.11 ins.in the ground for cor of secs.16,17,20,and 21,marked 3 notches on S;4 notches on E.edge,and raise a mound of stone 2 ft.base.1½ ft.high W of cor. Pits impracticable.
	Land rolling and level.
	Soil 2d.rate sandy loam.
	No timber.
	Shadscale;some grass.

	N.89°57'E.on a random line bet.secs.16 and 21.
40.00	Set temp.¼ sec.cor.
79.87	Intersect N and S line 26 lks.N of cor.of secs.15,16,21 and 22.
	Thence I run
	N.89°52'W.on a true line bet.secs. 16 and 21.
	Ascend; through scattering cedar.
2.94	Precipice 40 ft.high bears NW and SE. Ascend.
7.00	Top of ridge spur 20 ft.above precipice projects SE.

Chains	
	Descend.
12.50	Precipice 20 ft.deep bears NW and SE. Descend.
15.50	Bottom of rocky gully 25 ft.deep drains S. Ascend.
16.00	Top of rocky ridge spur projects S. Descend.
21.48	Precipice 50 ft.deep bears N and S. Descend.
23.00	Precipice 50 ft.high bears N and S. Ascend.
24.79	Precipice 50 ft.deep bears N and S. Descend.
27.23	Bottom of rocky hollow 100 ft.below top of precipice dra
29.10	Precipice 50 ft.high bears N and S, Ascend.
31.50	Top of spur from large hill projects S.25 ft.above top o precipice.
39.93½	Set a sandstone 16x8x5 ins.11 ins.in the ground for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 10 ins.diam.bears S.13°45'W. 40 lks.dist.marked ¼ S 21 B T.
	A cedar 10 ins.diam.bears N.53°45'W. 55 lks.dist.marked ¼ S 16 B T.
	In head of hollow drains SE. Ascend.
42.65	Top of ridge spur 75 ft.above hollow projects S. Descend.
56.75	Bottom of hollow 100 ft.below top of spur drains S. Asce
57.00	Coal croppings bear N and S. Leave cedars.
69.50	Top of ridge spur 150 ft.above hollow projects S. Descen
75.50	Bottom of hollow 50 ft.below spur drains S. Ascend.
79.87	The cor.of secs.16,17,20,and 21.

Land mountainous.

Soil Sd.mate,rocky.

Timber,scattering cedars on 57.chs.

A little grass.

Mountainous land on 79.87 chs.

The land north of this cor.being high broken mountains and non agricultural,I do not survey same.

(October,9th.1908.

October,10th.:At 7h.47m.,a.m.,l.m.t.,I set off 40°30'on lat.arc,6°22'E.on decl.arc,and determine a meridian with

Chains	
	solar at the cor.of secs.5,6;31,and 32,on S bdy.of Tp.heretofore described.
	Thence I run
	N.0°4'W.bet.secs.31 and 32.
	Ascend up west side of small hollow.
40.00	Set a sandstone 12x10x8 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
43.50	Top of ridge spur 50 ft.above hollow projects SE.
	Descend.
50.00	Bottom of hollow 75 ft.below top of spur drains SE.
	Ascend over broken W slope.
62.00	Top of ridge spur 50 ft.above hollow projects SW. Descend.
68.00	Head of hollow drains SW. Ascend.
68.50	Enter bench bears NW and SE. Now across same.
77.50	Foot of small ridge;ascend.
80.00	On top of ridge 25 ft.above bench bears NW 4 chs.SE 5 chs. Set a sandstone 12x10x8 ins. 8 ins.in the ground for cor. of secs.29,30,31,and 32,marked 1 notch on S;5 notches on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil 2d.rate,rocky.
	No timber.
	Shadscale and whitesage.

	East on a random line bet.secs. 29 and 32.
40.00	Set temp.¼ sec.cor.
79.92	Intersect N and S line 5 lks.S of cor.of secs.28,29,32, and 33.
	Thence S.89°58'W.on a true line bet.secs.29 and 32.
	Descend.
11.00	Bottom of hollow 15 ft.below cor.drains SE. Ascend.
14.00	Enter bench 25 ft.above hollow bears NW and SE.
	Now across same.

Chains	
35.00	Leave bench;descend.
39.96	Set a sandstone 16x12x8 ins. 11 ins.in the ground for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 f base 1½ ft.high N of cor. Pits impracticable.
54.00	Bottom of hollow 40 ft.below bench drains S. Ascend.
60.00	Enter bench 40 ft.above hollow bears N and S.
	Now across bench.
75.00	Foot of small ridge;ascend.
79.92	On top of detached ridge 25 ft.above bench,bears NW 4 chs and SE. 5 chs.
	The cor.of secs.29,30,31,and 32.
	Land rolling.
	Soil 2d,rate,sandy.
	No timber.
	Sage brush,shadscale and some grass.

	West on a random line bet.secs. 30 and 31.
40.00	Set temp.¼ sec.cor.
49.15	Intersect W bdy.of Tp.20 lks.S of cor.of secs.25,30,31, and 36,heretofore described.
	Thence I run
	S.89°46'E. on a true line bet.secs.30 and 31.
	Descend.
0.75	Wash 30 lks.wide 20 ft.deep drains SE. Ascend.
5.50	Top of ridge spur 30 ft.above wash projects SE. Descend.
7.00	Bottom of hollow 75 ft.below spur drains SE. Ascend.
9.15	Set a sandstone 12x10x6 ins.8 ins.in the ground for ¼ sec.cor.marked ¼ on N face and raise a mound of stone 2 f base 1½ ft.high N of cor. Pits impracticable.
13.25	Enter bench 75 ft.above hollow bears N and S.
	Now across same.
28.00	Leave bench;descend.
32.50	Bottom of hollow 100 ft.below bench drains S. Ascend.
38.00	Enter bench 75 ft.above hollow,bears N and S.

Chains	
46.50	Foot of detached ridge 25 ft.above bench;ascend.
49.15	On top of ridge bears NW 4 chs. SE. 5 chs.
	The cor.of secs. 29,30,31,and 32.
	Land broken.
	Soil 3d.rate,sandy and rocky.
	No timber.
	Shadscale;some grass.
	Mountainous land on 49.15 chs.

	N.0° 4'W.bet.secs.29 and 30.
	Descend.
5.00	Enter bench bears N and S. Now across same.
38.00	Descend from bench.
40.00	Set a sandstone 12x10x6 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
46.00	Bottom of hollow 100 ft.below bench drains S.80° E. Ascend.
50.00	Top of ridge spur 150 ft.above hollow projects SE. Descend.
57.50	Bottom of hollow 150 ft.below spur drains SE. Ascend.
80.00 40/40	Top of ridge spur 150 ft.above hollow projects SE. Set a sandstone 14x10x8 ins.10 ins.in the ground for cor. of secs.19,20,29,and 30,marked 2 notches on S;5 notches on E edge,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land broken bench and mountains.
	Soil 3d.rate,rocky.
	No timber.
	Sage brush;some grass.
	Mountainous land on N.40.chs.

	October,10th.1906:I set off 6°30'S.on decl.arc;and at 11h. 47m.,a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading 40°52',which agrees with other data.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
	Thence I run
	N.89°58'E.on a random line bet.secs.20 and 29.
40.00	Set temp ¼ sec.cor.
80.04	Intersect N and S line 5 lks.S.of cor.of secs. 20,21,28, and 29.
	Thence I run
	S.89°56'W. on a true line bet.secs. 20 and 29.
	Ascend gradually over bench.
11.50	Top of ridge spur 20 ft.above bench projects SE.
	Descend.
14.00	Bottom of hollow 30 ft.below spur drains SE. Ascend.
28.00	Enter bench 30 ft.above hollow bears NW and SE.
	Now across same. Enter cedars.
33.00	Leave cedars. Descend from bench!
40.02	Set a sandstone 12x10x8 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on N face and raise a mound of stone 2 ft.bas 1½ ft.high N of cor. Pits impracticable.
45.00	Road bears NW and SE.
46.00	Re-enter cedars.
47.50	Leave same.
48.00	Bottom of hollow 20 ft.below bench drains SW. Ascend.
49.00	Top of ridge spur 20 ft.above hollow projects S. Descend. to bench.
53.50	Leave bench;descend.
64.00	Bottom of hollow 50 ft.below bench drains S.15° W. Ascend
67.50	Top of ridge spur 75 ft.above hollow projects S. Descend.
72.00	Bottom of hollow 75 ft.below spur drains S.then SE.
	Ascend.
74.00	Enter bench bears NW and SE.75 ft.above hollow.
80.04	The cor.of secs. 19,20,29,and 30.
	Land broken bench and mountains.
	Soil 3d.rate,rocky.
	Timber,a few scattering cedars.
	Sage brush;some grass.
	Mountainous land on 80.04 chs.

SUBDIVISION OF T 3 S.R 24 E.

Chains	
	N.89°46'W. on a random line bet.secs. 19 and 30.
40.00	Set temp.¼ sec.cor.
49.05	Intersect W bdy.of Tp.26 lks.N of cor.of secs. 19,24,25, and 30,heretofore described.
	Thence I run
	N.89°56'E.on a true line bet.secs. 19 and 30, over bench.
4.55	Leave bench;descend.
9.05	Set a sandstone 12x10x8 ins.8 ins.in the ground for ¼ se . cor.marked ¼ on N face and raise a mound of stone 2 ft. base 1½ ft.high N of cor. Pits impracticable.
10.00	Bottom of hollow 100 ft.below bench drains SE. Ascend.
17.00	Enter bench 100 ft.above hollow bears NW and SE.
	Now across same.
32.00	Leave bench;descend.
38.00	Bottom of hollow 100 ft.below bench drains S.25°E.
	Ascend.
43.00	Enter bench 100 ft.above hollow bears NW and SE.
49.05	The cor.of secs. 19,20,29,and 30.
	Land broken.mountains.
	Soil 3d.rate,rocky.
	Sage brush and shadscale.
	No timber.
	Mountainous land on 49.05 chs.

	N.0°4'W.bet.secs.19 and 20.
	Over bench bears NW and SE.
8.00	Leave bench;descend.
14.75	Bottom of hollow 150 ft.below bench drains SE. Ascend.
	Ascend up ridge spur,projects S.
39.65	Old road bears NE. and SW. Enter cedars. Descend.
40.00	Set a limestone 20x8x4 ins.15 ins.in the ground for ¼ sec. cor.marked ¼ on W face from which
	A cedar 6 ins.diam.bears S.79°45'E.38 lks.dist.marked ¼ S 20 B T.
	A cedar 10 ins.diam.bears N.81°30'W.58 lks.dist.marked ¼ S 19 B T.

Chains	
55.00	Bottom of hollow 50 ft.below ¼ sec.cor. drains SW.
	Ascend.
80.00	Set a sandstone 20x10x5 ins.15 ins.in the ground for cor. of secs.17,18,19,and 20,marked 3 notches on S;5 notches on E edge, from which
	A cedar 6 ins.diam.bears N.24°00'E. 130 lks.dist.marked T 3 S.R 24 E. S 17 B T.
	A cedar 4 ins.diam.bears S.65°15'E. 79 lks.dist.marked T 3 S.R 24 E.S 20 B T.
	A cedar 5 ins.diam.bears S.39°15.W. 31 lks.dist.marked T 3 S.R 24 E.S 19 B T.
	A cedar 4 ins.diam.bears N.55°00'W.77 lks.dist.marked T 3 S.R 24 E. S 18 B T.
	Land broken slopes.
	Soil 3d.rate,rocky.
	Timber,cedars on 40.35 chs.
	Sage brush;some grass.
	Mountainous land on 80.chs.

	N.89°56'E.on a random line bet.secs. 17 and 20.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N and S line 23 lks.N of cor.of secs. 16,17,20, and 21.
	Thence I run
	N.89°54'W.on a true line bet.secs. 17 and 20.
	Descend.
15.69	Bottom of hollow 100 ft.below spur drains S. Ascend.
20.00	Top of ridge spur 100 ft.above hollow projects S.
	Enter cedars. Descend.
29.00	Leave cedars.
31.00	Enter flat 100 ft.below spur bears NW and SE.
37.73	Wash 40 lks.wide,5 ft.deep drains SE.
40.10	Set a sandstone 16x9x6 ins.11 ins.in the ground for ¼ sec. cor.marked ¼ on N face;dig pits 18x18x12 ins. E and W of stone 2 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.

SUBDIVISION OF T.3 S. R.24 E.

Chains	
	high N of cor.
46.00	Leave flat;ascend;enter cedars.
56.65	Top of ridge spur 200 ft.above flat projects S. Descend.
59.92	Bottom of hollow 100 ft.below spur drains S then SW. Ascend.
64.00	Enter bench 100 ft.above hollow bears N and S. Now across same.
65.10	Old road bears N and S. Ascend.
72.00	Top of ridge spur 100 ft.above bench projects S. Descend.
80.20	The cor.of secs. 17,18,19 and 20.
	Land mountainous.
	Soil 2d.and 3d.rate;rocky.
	Timber,cedars on 43.20 chs.
	White sage;some grass.
	Mountainous land on 80.20 chs.

	S.89°56'W.on a random line bet.secs.18 and 19.
40.00	Set temp.¼ sec.cor.
48.92	Intersect W.bdy.of Tp.7 lks.S of cor.of secs. 13,18,19 and 24,heretofore described.
	Thence I run
	S.89°59'E. on a true line bet.secs.18 and 19.
	In cedars.
4.90	Wash 10 lks.wide 3 ft.deep,drains S. Ascend,
8.92	Set a sandstone 18x10x8 ins.12 ins.in the ground for ¼ sec. cor.marked ¼ on N face, from which
	A cedar 8 ins.diam.bears N.47°30'W.27 lks.dist.marked ¼ S 18 B T.
	A cedar 4 ins.diam.bears S.49°45'E.137 lks.dist.marked ¼ S 19 B T.
	S point of ridge spur. Descend.
10.90	Bottom of hollow 25 ft.below point of spur,drains SW. Ascend.
17.92	Top of ridge spur 75 ft.above hollow projects S. Descend.
24.75	Bottom of hollow 75 ft.below spur drains S. Ascend.

Chains	
39.40	Top of ridge spur 75 ft.above hollow projects SW. Descend.
43.90	Bottom of hollow 75 ft.below spur drains SW. Ascend.
48.92	The cor.of secs. 17,18,19 and 20.

Land broken.

Soil 3d.rate;rocky.

Timber,cedars on 48.92 chs.

Mountainous land on 48.92 chs.

The land north of this cor.being high broken mountaion,an non-agricultural,I do not survey same.

(October,10th.1906.

GENERAL DESCRIPTION.

This township is mainly composed of broken ridge spurs and benches sloping southward and southeastward from Diamond Mountain toward the drainage to Rainbow Park;the soi is,for the most part 2d.and 3d.rate,composed of clay and gravelly loam,strewn with cobble rocks;some soil in secs. 23 and 26 is too poor to support vegetation of any sort;b being a hard red and purple clay. The north half of this township is extremely broken and covered with dense cedar and pinon pine;the surface being eroded deeply at frequent intervals with deep gorges cut through the sandstone formation. Coal croppings of rather doubtful commercial value,occur on the line bet.secs.16 and 21.

I consider no portion of the township as containing coal of sufficient value to return as coal land.

There are no indications of gold,silver,lead,copper,asphaltum or salines in this township.

This township is poorly watered,but furnishes good winter range for sheep,in the south half,which has been subdivid stock having to go to Green river on the SE.or to some springs near the base of Diamond Mt.on the north for water. There are no settlers in this township.

Edgar F. Harmston

U.S. Deputy Surveyor

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F.Harmston, United States Deputy Surveyor, to assist in running, measuring, and ng the lines and corners described in the foregoing field notes of the survey of Subdivision ss of T.3 South,Range 24 East,Salt Lake base and meridian, Utah, ng the respective capacities in which they acted:

rles L.Bailey, Chainman.

ig Harmston, Chainman.

tette Harmston, Moundman.

Moundman.

t Shisler, Axman.

Axman.

iner Bailey, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F.Harmston, United States Deputy Surveyor, in surveying all parts or portions of the subdivisional lines of T.3 S.,R.24 E., of the t Lake meridian, State of Utah, which are represented foregoing field notes as having been surveyed by him and under his direction; and that said survey een in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor al for Utah.

Charles L Bailey, Chainman.

Craig Harmston, Chainman.

Mellette Harmston, Moundman.

Moundman.

Bert Shisler, Axman.

Axman.

Bradner Bailey, Flagman.

ribed and sworn to before me this 9th. ay of August, 1907, 189

SEAL

Ward E. Pack Jr.
Notary Public

I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of the 19th day of December, 189 9, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision lines of T. 3 S. R. 24 E.,

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

Edgar F. Harmston
United States Deputy Surveyor

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th day of August, 1907

SEAL

CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 1908.

The foregoing field notes of the survey of the subdivisional lines of Township No. 3 South, Range No. 24 East of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston
under his contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor General

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

United States Surveyor General

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BOOK A-339

FIELD NOTES

OF THE Re SURVEY OF THE

Ashley Guide Meridian

on the

West Boundary

of

T. 3 S. — R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

Adolphe Jesson and Edgar F. Harmston, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 235, dated December 19th, 1899

Survey commenced June 24th, 1900

Survey completed June 25th, 1900

6—151

Res high 1.26.50 ✓

" low 4.53.50 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox	Chairman
John Holmes	"
Isaac M Cobb	"
John A. Lesonbee	"
Josiah Simmons	Moundman
Albert Rowe	Axeman
Craig Harmston	Flagman

For preliminary affidavits see book D Tp 4 S R 22 E

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BOOK A-339

INDEX DIAGRAM.

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

..... , *Chainman*

..... , *Chainman*

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

SEAL

.....

.....

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

.....

..... , *Moundman*

..... , *Moundman*

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

SEAL

.....

.....

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

.....

..... , *Axman*

..... , *Axman*

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

SEAL

.....

.....

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

..... , *Flagman*

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

SEAL

.....

.....

-survey of the Ashley Guide Meridian on W. Bdy. T. 3 S. R. 23 E.
Salt Lake Meridian.

Survey commenced June 24th 1900.

Note: In my field notes of the survey of the N. Bdy. of Tp. 4 S. R. 22 E. Salt Lake Meridian (executed in this contract) the necessity for resurveying the Ashley Guide Meridian as the E. Bdy of T. 4 S. R. 22 E. is explained at length and how I established a cor. to Tps. 3 & 4 S. Rgs 22 & 23 E. at a point probably about 6.00 chs East of the point where the original Tp. cor. - not found - had been.

Tp. 3 S. R. 21 E. and T. 3 S. R. 24 E. surveyed under this contract are practically 12 miles apart T. 3 S. Rgs 22 & 23 E. to be surveyed under this contract are not subdivided at all; therefore in accordance with the Manual and to preserve the uniformity of said Tps. I abandon the Ashley Guide Meridian in T. 3 S. as surveyed - due North from the cor. to Tps. 3 & 4 S. Rgs 22 & 23 E. established in this survey, searching for the corners on the old line in the proper places and destroying those that I find.

June 24th 1900

Beginning at the cor. to Tps. 3 & 4 S. Rgs 22 & 23 E. established in this survey in approximate Lat. 40° 30' 25" N. Long. 109° 24' W. I examine the adjustments of the Transit carefully and then test the Solar apparatus by comparing the results of observations on the sun made during a.m. - and p.m. - hours with a true Meridian determined by observations on Polaris proceeding as follows.

At 4 h. P.M. L.M.T. I set off 40° 30' N. on the lat. arc, 23° 26' N. on the decl. arc, determine with the Solar a true Meridian and mark a point thereof by pencil mark Sol. on a stake set firmly in the ground 5 chs. N. of cor.

At 9 h. 26 m. P.M. L.M.T. I observe Polaris in accordance with instructions in the Manual and mark the direction thus determined

by a tack driven in a wooden plug firmly set in the ground 5 chs. N. of the cor.

Astron l. m. t of obs. June 24th 1900		9 h. 26 m.
H.C. Polaris June 15th =	19 h. 43.2 m	
Red to June 24th	35.3 m	
H.C. Polaris June 24th	19 h. 07.7 m =	19 " 07.7 "
Hour angle of Polaris at obs.	=	14 h. 18. m
Time argument	=	9 " 38 "
Azimuth of Polaris at obs.		0° 55' E.

June 24th 1900

June 25th 1900 — At 7 h. a. m. I lay off the azimuth of Polaris 0° 55' to the West and mark the Meridian thus determined by making pencil mark No 2 on the stake set yesterday afternoon on which the true Meridian falls 0.25 ins west of the mark determined by the Solar

At 7 h. 30 m. a m l. m t. I cut off 40° 30. N on the lat. arc. 23° 25 N. on the decl. arc. and mark a point in the true Meridian determined by the Solar on the stake already set 5 chs N. of my station. This mark falls 0.3 ins W. of the true Meridian established by the Polaris observation.

The Solar apparatus by P.M and A.M observations defines positions for true Meridian respectively 0.13' E. and 0.16' W. of the true Meridian established by the Polaris observation, therefore I conclude the adjustments of the instrument are satisfactory

The magnetic bearing of the true Meridian at 7 h. 30 m. a m is N. 15° 59' W. which reduced by the table on page 100 of the Manual gives the Mean magnetic declination 15° 53' East.

Thence I run

North on a resurvey line between secs 31 & 36

In Brush Creek bottom

Survey Ashley Guide Meridian on W. Bdy. T. 3 S. R. 23 E.

chs.	
2.00	Brush Creek 30 lks. wide 2 ft. deep drains E.
3.25	Wire fence bears E. & W.
8.00	Brush Creek 30 lks. wide 2 ft. deep drains S.W.
9.50	Brush Creek 30 lks. wide 2 ft. deep drains S.E.
10.00	Leave bottom – Ascend S.W. slope
30.00	Wire fence bears N. 10° W. and S 10° E.
	Difference between measurements of 40.00 chs by two sets of chainmen 18 lks. – Position of middle point
	By 1st set 40.09 chs.
	By 2nd set 39.91 chs. the mean of which is
40.00	Make diligent search but find no trace of original 1/4 sec. cor. Set a sandstone 15 x 12 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
46.00	Enter bench 75 ft. higher than bottom bears NW. & SE.
50.00	Scher Evans' house bears West 9.00 chs.
57.00	Leave bench – Descend
61.50	Hollow 75 ft. deep drains S.W.
62.00	Road bears NE. & S.W.
65.00	Enter bench bears NE. & SW.
	Difference between measurements of 80.00 chs by two sets of chainmen 22 lks. – Position of middle point.
	By 1st set 80.11 chs
	By 2nd set 79.89 chs. the mean of which is
80.00	The original cor. to secs. 25. 30. 31 & 36, which I destroy, bears S. 61° 25' E. 8.07 chs. dist. – Set a sandstone 24 x 12 x 8 ins. 18 ins. in the ground for cor. to secs. 25. 30. 31 & 36 marked 5 notches on N. – 1 on S. 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.
76/10	Land Creek bottom and broken benches
	Soil 1st and 2nd rate sandy loam part gravelly
	No timber
	Mountainous on N. 70.00 chs

North on a reservoir line
bet. secs. 25 & 30

Along broken bench

Re-survey Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 E.

Chs.	
30.50	Road bears N.W. and S.E.
39.00	Same road bears N.E. & S.W.
	Difference between measurements of 40.00 chs by two sets of chainmen 8 lks. – Position of middle point
	By 1st set 40.04 chs.
	By 2nd set 39.96 chs. the mean of which is
40.00	Find no trace of the original 1/4 sec. cor. Set a sandstone 15 x 12 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
40.25	Wash 15 lks. wide 5 ft. deep drains S.W.
51.00	Hollow 30 ft. deep drains S.W.
	Difference between measurements of 80.00 chs. by two sets of chainmen 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	The original cor. to secs. 19. 24. 25 & 30, which I destroy, bears S. 70 W. 9.00 chs. dist. – Set a sandstone 20 x 14 x 10 ins. 15 ins. in the ground for cor. to secs. 19. 24. 25 & 30 marked 4 notches on N. and 2 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Land broken brush
	Soil 2nd rate, gravelly loam.
	No timber

North on a re-survey line bet. secs. 19 & 24

20.00	Ridge spur 50 ft. high bears S.W.
	Difference between measurements of 40.00 chs. by two sets of chainmen 6 lks. – Position of middle point
	By 1st set 40.03 chs
	By 2nd set 39.97 chs. the mean of which is
40.00	Set a sandstone 18 x 12 x 10 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable I find no trace of the original 1/4 sec. cor.

-survey Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 E.

chs.

40.50 Gulch 100 ft. deep drains S.W.

Difference between measurements of 80.00 chs. by two sets of chainmen 10 lks. - Position of middle point

By 1st set. 80.05 chs

By 2nd set 79.95 chs the mean of which is

80.00 The original cor. to secs. 13. 18. 19 & 24; which I destroy, bears S. 80°45' W. 9.00 chs. dist. - Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground for cor. to secs. 13. 18. 19 & 24 marked 3 notches on N. and S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable

Land broken

Soil 2nd rate, sand & gravel

No timber

June 25th 1900 - At 12 h. - m. - l. m. t at this cor. I set off 23°24' N. on the decl. arc. and observe the sun on the Meridian -, the resulting lat. is 40° 33' N.

North on a re-survey line bet. secs. 13 & 18

Over very rugged W. slope

29.50 Hollow 100 ft. deep drains S.W.

36.50 Enter high bench bears NE. & S.W.

Difference between measurements of 40.00 chs by two sets of chainmen 10 lks. - Position of middle point

By 1st set 40.05 chs.

By 2nd set 39.95 chs. the mean of which is

40.00 Find no trace of the original ¼ sec. cor. - Set a sandstone 14 x 12 x 5 ins. - 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor

Pits impracticable

Difference between measurement of 80.00 chs. by two sets of chainmen 16 lks. - Position of middle point

By 1st set. = 80.08 chs.

By 2nd set = 79.92 chs the mean of which is

Resurvey Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 E.

Chs.	
80.00	Find as trees of the original cor. to secs. 7. 12. 13 & 18
3.50 / 3.50	Set a sandstone 15 x 10 x 9 ins. 13 ins. in the ground for cor. to secs. 7. 12. 13 & 18 marked 2 notches on N. and 4 on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Land broken mountains and bench
	Soil 2nd rate, rocky.
	No timber
	Mountainous on S. 36.50 chs

North on re-survey line bet. secs. 7 & 12

7.50	Road bears NE. & SW.
	Difference between measurements of 40.00 chs. by two sets of chainmen 4 chs. – Position of middle point
	By 1st set = 40.02 chs
	By 2nd set 39.98 chs. the mean of which is
40.00	Set a sandstone 15 x 12 x 8 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	Note: The original ¼ sec. cor, which I destroy, bears S. 49° W. 9.40 chs. dist.
46.50	Leave bench, descend NW. slope
49.50	Hollow 75 ft. deep drains W.
53.50	Ridge spur 50 ft. high bears W.
	Difference between measurement of 80.00 chs by two sets of chainmen 14 chs. – Position of middle point
	By 1st set 80.07 chs.
	By 2nd set 79.93 chs the mean of which is
80.00	The original cor. to secs. 1. 6. 7 & 12, which I destroy bears S. 78° 35' W. 9.90 chs. dist – Set a sandstone 24 x 9 x 4 ins. 18 ins. in the ground for cor. to secs. 1. 6. 7 & 12 marked 1 notch on N. and 5 notches on S. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable

Resurvey Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 W

chs. Land broken bench and W. slope
Soil 2nd rate, rocky.
Timber a few scattering cedars near 1/4 sec. cor.

North on a re-survey line bet. secs. 1 & 6

Along broken W. slope
23.00 Enter scattering cedars and bench 75 ft. high bears E. & W.
28.50 Leave Bench — descend
30.00 Leave cedars
31.50 Enter Little Brush Creek flat
39.50 Wash 30 lks. wide 4 ft. deep draines W.
Difference between measurements of 40.00 chs by two sets of chainmen 12 lks. — Position of middle point.
By 1st set 40.06 chs.
By 2nd set 39.94 chs the mean of which is
40.00 Find no trace of the original 1/4 sec. cor. Set a sand-
16 x 12 x 10 ins. 11 ins. in the ground for 1/4 sec. cor. marked
1/4 sec. W. face and raised a mound of stone 2 ft
base 1 1/2 ft. high W. of cor.
Pits impracticable
56.50 Leave Little Brush Creek Flat — Ascend
59.50 Enter scattering cedars
Difference between measurements of 80.00 chs. by two sets of chainmen 16 lks. — Position of middle point
By 1st set = 80.08 chs.
By 2nd set = 79.92 chs. the mean of which is
80.00 Find no trace of the original cor. to Tps. 2 & 3 S. Rgs.
22 & 23 E. Set temp. cor. for same at point reached.
After running the N. Bdy of this Tp. at
80.00 Set a sandstone 24 x 15 x 3 ins. 18 ins. in the ground
for permanent cor. to Tps. 2 & 3 S. Rgs. 22 & 23 E. marked
with 6 notches on each edge and raised a mound of
stone 3 ft. base 2 ft. high S. of cor.
Pits impracticable
A cedar 5 ins. diam. bears S. 22° 45' E. 84 lks. dist.
marked T. 3 S. R. 23 E. S. 6 B. T.
A cedar 8 ins. diam. bears N. 67° 30' E. 126 lks. dist

Re-survey Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 E.

meanders T. 2 S. R. 23 E. T. 31 B.T. – No other trees within limits
Land flat bottom and broken benches
Soil 1st and 2nd rate, alluvial and sandy.
Scattering cedars on 36.75 chs.

June 25th 1900

For general description see end of field notes of the Subdivisions of this Tp.

Edgar F. Harrington
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

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 .....

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

ie 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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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 Su General for ....., the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of .....

.....

.....

.....

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

..... 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 w the Manual of Surveying Instructions, and the special written instructions of the United States Surv 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.

For final affidavit see L. K. S. Tp 2 S. R 23 E

.....

United States Deputy Surv

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, October 25, 1902, 189

The foregoing field notes of the survey of the Ashley Guide Meridian on West Boundary of Township 3 South Range 23 East

executed by Adolphe Jessen & Edgar F. Harmston under ~~his~~ their contract No. 235, dated December 19, 1897, having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson

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 office.

.....

United States Surveyor Gen

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4—679.

BOOK A-339

FIELD NOTES

OF THE Re-tracement & Re- SURVEY OF ~~THE~~ a part

of the

South Boundary

of

T. 2 S. - R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 235, dated December 19th, 1899

Survey commenced June 26th, 1900

Survey completed June 27th, 1900

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Retracement Cover 1.79-90. ✓

Resurvey [illegible] 1-00-00. ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox chainman

John Holmes "

Josiah Simmes Monudman

Albert Kone Axeman

Craig Harendon Flagman

For preliminary affidavits see book B. Tp 3 S. R 21 E.

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BOOK A-339

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

.....

....., *Axman*

....., *Axman*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

Retracement of a part of the S. Bdy T. 2 S. R. 23 E.

Survey commenced June 26th 1900

Note. The special instructions accompanying this contract directs the unsurveyed W. half of the N. Bdy of T. 3 S. to be run as follows "Commence at the established cor. to secs 3. 4. 33 & 34 and run West on random line to the cor. of Tps. 2 & 3 S. Rs. 22 & 23 E. on the Ashley Guide Meridian. Note the falling N. or S. of said cor and if within the limits of 21' of arc return on true line. — If falling exceeds the limit establish random as true line ..... set closing cor. for Tps. 2 & 3 S. at point of intersection with Ashley Guide Meridian ....."

The unforeseen circumstance of the Ashley Guide Meridian being re-surveyed renders the establishment of a closing cor. to Ts. 2 & 3 S., Rg. 23 E. unnecessary under any conditions - But before establishing the corners on the three westerly unsurveyed miles of the N. Bdy of T. 3 S. R. 23 E. I think it necessary to retrace the three easterly surveyed miles of the S. Bdy of T. 2 S. R. 23 E. because I have invariably found the old survey deficient in alinement and a random line from the established cor. to secs. 3. 4. 33 & 34 to the temp. cor. of T. 2 & 3 S. R 23 E. would be no check in my survey of the Boundaries of this Tp. unless the S. Bdy's of secs 34. 35 & 36 T. 2 S. R. 23 E. were definitely located.

After diligent search I fail to find the said cor to secs 3. 4 33 & 34 in S. Bdy T. 2 S. R. 23 E. — Therefore on June 26th 1900 at the established cor. to T. 2 S. Rgs. 23 & 24 E. heretofore described and from which the closing cor. to T. 3 S. Rgs 23 & 24 E. bears N. 89° 25' E. 16.25 chs dist (established in this survey) I set off 23° 22' N. on the decl. arc and at 12h. m. l. m. t. observe the sun on the Meridian the resulting lat. is 40° 36' N. —

Re-tracement of a part of the S. Bdy of T. 2 S. R. 23 E.

chs

Thence S mm
West on a blank line on S. Bdy of sec. 36
At 39.70 chs I fall 30 lks N. of the 1/4 sec. cor on S. Bdy of sec. 36 – At 79.90 chs I fall 5.9 lks N. of cor to secs. 35 & 36
Thence S mm
West on a blank line on S. Bdy of sec. 35
At 40.00 chs. I fall 10 lks. N. of 1/4 sec. cor on S. Bdy of sec. 35 – At 80.00 chs. I fall lks. N. of cor. to secs. 34 & 35
Thence S mm
West on a blank line on S. Bdy of sec. 34
At 40.00 chs. no trace of the original 1/4 sec. cor. and at 80.00 chs. no trace of the cor. to secs. 3. 4. 33 & 34

June 26th 1900

Note I now proceed to retrace the S. Boundaries of secs. 35 & 36 computing the courses from the fallings – The S. Bdy of sec. 34 must be re-surveyed (the corners being obliterated) on the original West course the SE 1/4 of same being returned as surveyed land.

June 27th 1900 – At 7 h. a m. l. m t. I set off 40° 36' N. on the hat arc 23° 20' N. on the decl. arc and determine a true Meridian with the Solar at the cor. to T. 2 S. Rs 23 & 24 E. heretofore described and which is S. 89° 45' W. 16.25 chs. from the closing cor. to T. 3 S. Rs. 23 & 24 E. established by me in this survey
Thence S mm
S. 89° 34' W. on re-tracement line on S. Bdy sec. 36

On Diamond Mountain Plateau
39.70 The original 1/4 sec. cor. on S. Bdy of sec. 36 which is a sandstone 10 x 9 x 7 ins. set, marked and witnessed as described by the Surveyor General
67.00 Descend from Diamond Mountain Plateau.
74.00 Gulch 40 ft. deep drains S.

Retracement of a part of the S. Bdy of T. 2 S R. 23 E.

Chs.	
79.90	The original cor. to secs. 35 & 36 which is a porphyry stone 15 x 10 x 8 ins. set, marked and witnessed as described by the Surveyor General
	Land high broken Mountain plateau
	Soil 3rd rate, rocky.
	No timber

S. 89° 51' W. on retracement line on S. Bdy. of sec. 35

	Descend gradually
36.40	Gulch 50 ft. deep drains S.
40.00	The original 1/4 sec. cor. on S. Bdy of sec. 35 which is a limestone 14 x 14 x 8 ins. set, marked and witnessed as described by the Surveyor General
47.00	Gulch 50 ft. deep drains S.W.
9.80	Rocky Spring Branch 5 lks. wide 4 ins. deep runs S.W.
2.40	Hollow 30 ft. deep drains S.
76.60	Road bears N. & S.
80.00	The original cor. to secs. 34 & 35 which is a sandstone 12 x 8 x 8 ins. set marked and witnessed as described by the Surveyor General.
	Land broken S.W. slope
	Soil 3rd rate, rocky.
	No timber —

June 27th 1900

Re-survey of a part of the S. Bdy of T. 2 S. R.

Chs.	
	June 27th 1900 – From the established cor. to secs 34 & 35 on S. Bdy of Tp. hereto fore described I run West on a re-survey line on S. Bdy. of sec 34
19.50	Gulch 30 ft. deep drains S.
23.50	Gulch 30 ft. deep drains S.W.
26.00	Ridge 50 ft. high bears S.W. & N.E.
35.00	Hollow 25 ft. deep drains S.W.
40.00	Search diligently for the original 1/4 sec. cor on S. Bdy of sec. 34 but find no trace. Set a sandstone 14 x 12 x 8 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
50.00	Ridge spur 50 ft. high bears S.W.
56.00	Gulch 50 ft. deep drains S.W.
68.00	Croppings of coal vein bears S.W. & N.E.
69.50	Cliff 10 ft. high bears N.E. & S.W.
70.00	Ridge spur 30 ft. high bears S.W.
80.00	Search diligently for the original cor. to secs. 33 & 34 but find no trace – Set a sandstone 16 x 14 x 8 ins. 11 ins. in the ground for cor. to secs. 33 & 34 marked 3 notches on E. & W. edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable A cedar 12 ins. diam. bears N. 62° W. 26 lks. dist. marked T. 2 S. R. 23 E. S. 33 B.T. A cedar 12 ins. diam. bears N. 84° E. 62 lks. dist. marked T. 2 S. R. 23 E. S. 34 B.T. Note: The cor. to T. 3 S. Rgs. 23 & 24 E. being 256.15 chs E. of this cor. it is apparent that the section lines from the South cannot connect with it, and no bearing trees are established S. of the Tp. line Land broken S. slope Soil 3rd rate, rocky. Timber some scattering cedars Mountainous in 80.00 chs June 27th 1900

Retracement and resurvey of a part of the S. Bdy of T. 2 S. R. 23 E.

For general description see end of the field notes of the survey of the Subdivision lines of T. 3 S. R. 23 E.

Edgar F. Harrington
U. S. Dep. Surveyor.

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

.....

.....

.....

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

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

For final affidavit see book T. Ip. 1 S. R. 22 E.

.....
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, October 25, 1902, TN

The foregoing field notes of the survey of the Sixth Boundary of Township 2 South Range 23 East of the Salt Lake Base & Meridian, Utah

executed by Adolphe Jessen and Edgar F. Harmston under ~~his~~ their contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys & retracements they describe, are hereby approved.

Edward Henderson
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-339

FIELD NOTES

OF THE SURVEY OF a part of THE

South Boundary

of

T. 2 S. – R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harrington, United States Deputy Surveyor,

under ~~his~~ their Contract No. 235, dated December 19th, 1899

Survey commenced June 27th, 1900

Survey completed June 28th, 1900

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Length 2 64.00

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox Chairman

John Holmes "

Josiah Timms Monuedman

Albert Kone Axeman

Craig Harmston Flagman

In preliminary affidavits see Book B Tp 3 S R 21 E

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BOOK A-339

INDEX DIAGRAM.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

..... *Chainman*

..... *Chainman*

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

SEAL

.....

.....

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

..... *Moundman*

..... *Moundman*

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

SEAL

.....

.....

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

..... *Axman*

..... *Axman*

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

SEAL

.....

.....

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

..... *Flagman*

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

SEAL

.....

.....

SURVEY OF A PART OF S.BDY.OF T.2 S.,R.23 E.

Chains

Survey commenced June 27th.1900,with instrument descr bed in Book "A".

June 27th.1900:-At the cor.of secs. 33 and 34,re-establ lished in this survey,on S bdy.of T.2 S.R.23 E. Salt Lak base and meridian;I set off 23°20'N.on the decl.arc,and,at 12h.0m.,m.,l.m.t., observe the sun on the meridian;the resulting lat.is 40°36'N.

Thence I run

West on a random line along part of the S bdy.of T 2 S. R.23 E.,setting temp.¼ sec.and sec.cors.at intervals of 40.00 chs. and at 224 chs.intersect the Ashley Guide Meridian at my temp.cor.of Tps.2 and 3 S. Rs. 22 and 23 E.

At the place of said temp.cor. I now establish the permanent cor.of Tps. 2 and 3 S.,Rs.22 and 23 E. described in my field notes of the re-survey of the Ashley Guide Meridian, on W bdy.of Tp.3 S.,R.23 E.

(June 27th.1900.

June,28th.1900:- At 7h.0m.,a.m.,l.m.t., I set off 40°36'N. on the lat.arc;23°19'N.on the decl.arc,and determine with the solar,a true meridian,at the cor.of Tps.2 and 3 S., Rs.22 and 23 E. on the Ashley Guide Meridian,heretofore described.

Thence abandoning my random line

I run

East on a true line bet.secs. 6 and 31.

7.00 Top of ridge spur,50 ft.above cor.projects S. Descend.

24.00 Set a sandstone 20x15x6 ins.15 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

A cedar 6 ins.diam.bears N 81°00'W.,23 lks. dist.marked ¼ S 31 B T. No other trees within limits.

24.50 Bottom of hollow,100 ft.below top of spur,drains S.70° W. Ascend.

Chains	
49.50	Top of reef 100 ft.above hollow,bears S 70°W and N.70° E.
	Descend.
64.00	Set a limestone 13x12x8 ins. 8 ins.in the ground,for cor.
	of secs. 31 and 32,marked 5 notches on E;1 notch on W edges
	from which
	A cedar 10 ins.diam.bears N.61°00'E. 25 lks.dist.marked
	T 2 S.R 23 E S 32 B T.
	A cedar 10 ins.diam.bears N.59°00'W. 40 lks.dist.marked
	T 2 S.R 23 E.S 31 B T.
	Note:- No bearings are established S of this line,as the
	lines from the S.can not close on these cors.
	Land broken SW slope.
	Soil,3d.rate;rocky.
	Dense cedars on 64.00 chs.
	Mountainous land on 64.00 chs.
	East on a true line on S Bdy.of Sec.32.
34.00	Bottom of canyon,100 ft.below top of reef,drains S.
	Ascend.
40.00	In a small hollow drains N. Set a sandstone 16x11x10 ins.
	11 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and
	raise a mound of stone 2 ft.base,1½ ft.high N of cor.
	Pits impracticable. from which
	A cedar 6 ins.diam.bears N.42°00'E. 22 lks.dist.marked
	¼ S 32 B T. No other trees within limits. Ascend.
42.50	Enter W end of detached ridge 100 ft.high.
64.50	Leave cedars.
65.50	Leave E end of detached ridge;descend.
69.50	Foot of slope;wash 5 lks.wide,2 ft.deep,drains NW.
80.00	Set a sandstone 14x12x10 ins.9 ins.in the ground,for cor.
	of secs. 32,and 33,marked 4 notches on E;2 notches on W
	edges,and raise a mound of stone 2 ft.base,1½ ft.high N
	of cor. Pits impracticable.
	Land mountainous.
	Soil 2d.rate;rocky.

SURVEY OF A PART OF THE S BDY. OF T.2 S.R 23 E.

Chains

Timber, dense cedars on W 64.50 chs.

Mountainous land on 80.00 chs.

East on a true line on S. bdy. of Sec. 33.

11.50 Wash 5 lks. wide, 3 ft. deep, drains NW.

13.00 Old mail road bears NE and SW.

16.50 Ascend; enter scattering cedars.

40.00 Set a sandstone 18x10x8 ins. 12 ins. in the ground, for ¼ s c. cor. marked ¼ on N face, and raise a mound of stone 2 ft. base, 1½ ft. high N of cor. Pits impracticable.

40.50 Top of ridge spur, 75 ft. above ¼ sec. cor. projects SW. Descend

46.50 Spring Branch 2 lks. wide, 2 ins. deep, runs SW. The spring is situated 2 chs. NE.

47.50 Bottom of hollow 25 ft. below spur, drains SW. Ascend.

57.50 Top of ridge spur, 50 ft. above hollow, projects SW. Descend.

65.00 Bottom of hollow 15 ft. below spur, drains SW. Ascend.

69.00 Top of rocky ridge spur, 75 ft. above hollow, projects SW. Descend.

73.00 Bottom of gulch 25 ft. below spur, drains SW. Ascend.

80.00 The cor. of secs. 33 and 34, re-established in this survey.

Land mountainous.

Soil, 2d. rate; rocky.

Timber, a few scattering cedars on E. 63.50 chs.

Mountainous land on 80.00 chs.

(June 28th. 1900.

SURVEY OF A PART OF THE S.BDY.OF T.2 S.R 23 E.

Boundaries of T.3 S.R.23 E.

Latitudes, Departures, and Closing Errors.

Line Designated.	True Bearing	Distance Chains	Latitude North Chs.	Latitude South Chs.	Departure East Chs.	Departure West Chs.
W.Bdy., A.G.M.	North	480.00	480.00			
North Bdy.	East	304.00			304.00	
	N.89°51'E.	80.00	.21		80.00	
	N.89°34'E.	79.90	.60		79.90	
	N.89°25'E.	16.25	.17		16.25	
East Bdy.	South	480.66		480.66		
South Bdy.	West	479.83				479.83
Convergency					.61	
			480.98	480.66	480.76	479.83
			480.66		479.83	
Error in Latitude,- -			0.32			
Error in Departure,- - - - - - - -					0.93	

For general description, see end of field notes of the subdivisions of T.3 S., R.23 E.

Edgar F. Hamston

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

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 .....

..... 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 .....

day of ....., 189

SEAL

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

_____
United States Deputy Surveyor.

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

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 25, 1902

The foregoing field notes of the survey of the South Boundary of Township 2 South Range 23 East of the Salt Lake Base and Meridian, Utah

executed by Adolphus Jessen and Edgar F. Harmston under his contract No. 285, dated December 19, 1897, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
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-339

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION LINES OF

TOWNSHIP 3 SOUTH,

RANGE 23 EAST,

Of the Salt Lake *Meridian,*

UTAH.

AS SURVEYED BY

Edgar F. Harmston, *United States Deputy Surveyor,*

ler his Contract No. 275, *dated* December, 19th. 190, *1899.*

vey commenced October, 11th. 1906., *189*

vey completed October, 13th. 1906., *189*

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high 43-00-95

low 16-77-62

Closing 1-00-35

NAMES AND DUTIES OF ASSISTANTS.

Charles L. Bailey,	Chainman.
Craig Harmston,	Chainman,
Mellette Harmston,	Moundman,
Bert Shisler,	Axman,
Bradner Bailey,	Flagman.

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BOOK A-339

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles L. Bailey, and Craig Harmston,
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 the subdivision lines of T.3 S., R.23 E., S.L.B.& M., Utah.

Chas L Bailey, Chainman.
Craig Harmston, Chainman.

Subscribed and sworn to before me this 10th. day of August, 1906., 189

SEAL

Ward E. Pack Jr
Notary Public.

~~WE~~ I, Mellette Harmston, ~~and~~
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivision lines of T.3 S., R.23 E., S.L.B.& M., Utah.

Mellette Harmston, Moundman.
, Moundman.

Subscribed and sworn to before me this 10th. day of August, 1906., 189

SEAL

Ward E. Pack Jr
Notary Public.

~~WE~~ I, Bert Shisler, and
do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the subdivision lines of T.3 S., R.23 E., S.L.B.& M., Utah.

Bert Shisler, Axman.
, Axman.

Subscribed and sworn to before me this 10th. day of August, 1906., 189

SEAL

Ward E. Pack Jr
Notary Public.

I, Bradner Bailey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of T.3 S., R.23 E., S.L.B.& M., Utah.

Bradner Bailey, Flagman.

Subscribed and sworn to before me this 10th. day of August, 1906., 189

SEAL

Ward E. Pack Jr
Notary Public.

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SUBDIVISION OF T 3 S.R 23 E.

Chains

Survey commenced October,10th.1906,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 the least count of the verniers of the latitude and declination arcs.

I examine the adjustments of the transit,and find the levels and line of collimation in adjustment;then,to test the solar apparatus,by comparing its indications,resulting from solar observations made during a.m.,and p.m.,hours,with a meridian determined by observations on Polaris,I proceed as follows:-

At the cor.of secs.1,2,35,and 36,on S bdy.of Tp.heretofore described;lat.40°30'N.,long.109°18'W., I set off 40°30'N. on lat.arc;6°32'S.on decl.arc,and,at 3h.17m.,p.m.,l.m.t., determine with the solar a meridian,and mark a point thereof on a stone firmly set in the ground,5 chs.N of the cor.

At 6h.16m.,p.m.,l.m.t., I observe Polaris at eastern elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground,5 chs.N of my station.

(October,10th.1906.

October,11th.At 6h. 15m.,a.m.,l.m.t., I lay off the azimuth of Polaris,1° 34' to the west,and mark the meridian thus determined,by cutting a small groove in the stone set October,10th.on which the meridian falls 0.3 ins.east of the mark determined by the solar.

At 8h.30m.,a.m.,l.m.t, I set off 40° 30',on the lat.arc 6°49'S.on decl.arc;and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N of my station;this mark falls 0.4 ins.east of the meridian established by the Polaris observation.

The solar apparatus,by p.m.,and a.m.,observations,defines positions for meridians,respectively about 0'16" west an

SUBDIVISION OF T 3 S.R23 E.

Chains	
	0'21" east of the meridian established by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian, at 8h.25m., a.m., is N.15°45'W., the angle thus determined gives the mag.decl 15°45'E.

	Thence I run
	N.0°1'W. bet.secs. 35 and 36.
	Over mountainous land through scattering white sage.
	Descend.
2.31	Wash 22 lks.wide, 6 ft.deep, drains NE.
7.57	Wash 80 lks.wide, 15 ft.deep, drains S 80° E.
10.00	Leave flat; ascend.
13.72	Top of ridge spur, 100 ft.above flat, projects S 80° E.
	Descend.
18.45	Bottom of hollow 100 ft.below ridge; drains S 60° E.
	Ascend.
34.33	Top of ridge spur, 100 ft.above hollow, projects S 60°E.
	Descend.
40.00	Set a sandstone 24x18x5 ins.18 ins.in the ground, for ¼ sec cor.marked ¼ on W face; dig pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base, 1½ ft.high W of cor.
	Gradual descent down N slope.
74.50	Descend more abrupt slope into hollow.
80.00	Set a limestone 12x10x8 ins.8 ins.in the ground, for cor.
	of secs. 25,26,35,and 36, marked 1 notch on S; 1 notch on E,

BD V S ON O T 3 R 3 T.

Chains	
	edges,and raise a mound of stone 2 ft.base,1½ ft.high W f cor.
	Pits impracticable.
	Land mountainous.
	Soil,clay,2d.rate.
	No timber.
	White sage.
	Mountainous land on 80.00 chs.

	East on a random line bet.secs. 25 and 36.
40.00	Set temp.¼ sec.cor.
79.94	Intersect E bdy.of Tp.at cor.of secs. 25,30,31,and 36.
	heretofore described. Thence I run
	West on a true line bet.secs. 25 and 36.
	Descend in scattering whitesage,over broken slope.
4.00	Wash 8 lks.wide,3 ft.deep,drains SE.
	Ascend.
24.50	Top of ridge spur,75 ft.above wash,projects SE.from NE.
	Descend.
39.97	Set a sandstone 12x10x8 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face;dig pits 18x18x12 ins.E and W of s one 3 ft.dist.and raise a mound of earth 3½ ft.base,1½ ft.high N of cor.
40.50	Bottom of hollow,100 ft.below spur,drains SE.

SUBDIVISION OF T 3 S.R 23 E.

Chains.	Ascend.
57.00	Top of ridge,
74.50	Hollow, drains SE.
78.00	Wash 15 lks.wide,10 ft.deep,in same hollow,drains SE.
79.94	The cor.of secs. 25,26,35,and 36.
	Land broken.
	Soil,clay;2d.rate.
	No timber.
	White sage.
	Mountainous land on 79.94 chs.

	N.0°1'W.bet.secs. 25 and 26.
	Descend over mountainous land.
0.32	Bottom of hollow 25 ft.below cor.drains SE.
4.70	Wash 90 lks.wide,15 ft.deep,in same hollow,drains SE.
13.00	Ascend;leave flat,in hollow.
15.50	Top of ridge spur,50 ft.above hollow,projects SW.
	Descend along broken SW slope.
21.00	Head of hollow drains SW.
	Ascend.
26.60	Top of ridge spur 75 ft.above head of hollow,projects SW.
	Descend.
37.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
40.00	Set a sandstone 16x8x4 ins.11 ins.in the ground,for ¼ sec. cor.marked ¼ on W face;dig pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base,1½

SUBDIVISION OF T.3 S. R.23 E.

Chains

ft.high W of cor.

40.50 Top of ridge spur 100 ft.above hollow projects SE. Desce d.

43.50 Bottom of hollow 75 ft.below spur,drains SE. Ascend.

48.00 Top of ridge spur 75 ft.above hollow,projects SE. Desce d.

61.00 Wash 50 lks.wide,15 ft.deep,drains S 15° E.

Ascend along E side of wash in hollow.

80.00 Set a sandstone 12x10x5 ins.8 ins.in the ground,for cor. f secs.23,24,25,and 26,marked 1 notch on E;2 notches on S edges;dig pits 18x18x12 ins.in each sec.5½ ft.from stone and raise a mound of earth 4 ft.base,2 ft.high W of cor.

Land broken.

Soil,clay;2d.rate.

No timber.

Shadscale and salt sage; no grass.

Mountainous land on 80.chs.

East on a random line bet.secs.24 and 25.

40.00 Set temp.¼ sec.cor.

80.06 Intersect E bdy.of Tp.2 lks.N of cor.of secs.19,24,25, and 30, heretofore described.

Thence I run

N.89°59'W.on a true line bet.secs.24 and 25.

Over bench.

10.50 Leave bench;descend.

16.50 Enter hollow,drains S., 75 ft.below bench.

18.00 Wash 8 lks.wide,4 ft.deep,drains S.

23.25 Wash 6 lks.wide,4 ft.deep,drains S.

30.00 Wash 10 lks.wide,6 ft.deep,drains S. Ascend.

34.00 Top of ridge spur 150 ft.above hollow,projects S from hi l. Descend.

40.03 Set a sandstone 20x8x6 ins.15 ins.in the ground,for ¼ se . cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.

48.00 Bottom of hollow 75 ft.below spur,drains S. Ascend.

51.50 Top of ridge spur 100 ft.above hollow,projects S. Descend.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
68.90	Bottom of hollow 75 ft.below spur,drains S. Ascend.
69.60	Top of ridge spur 150 ft.above hollow projects S. Descend
80.06	The cor.of secs. 23,24,25,and 26.
	Land broken.
	Soil,clay;2d.rate.
	No timber.
	Shadscale and salt sage.
	Mountainous land on 80.06 chs.

	October,11th,1906: I set off 6° 53'S on the decl.arc,and at 11h.47m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading,40°32',which agrees with other data.
	Thence I run
	N.0° 1'W. bet.secs. 23 and 24.
	Ascend hollow on E side of wash.
14.00	Wash 60 lks.wide,12 ft.deep,in hollow drains W. Ascend.
16.00	Ascend along W slope of spur.through undergrowth.
38.00	Foot of high hill.
40.00	Set a sandstone 16x8x4 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on W face;dig pits 18x18x12 ins.N and S of stone 7 ft.dist.and raise a mound of earth 7½ ft.base, 1½ ft.high W of cor.
41.00	Enter hill top 200 ft.above hollow.
45.00	Descend from same.
65.00	Along W slope of hill,whence a ridge bears W.
72.00	Enter flat.
76.00	Road bears NE and NW.
80.00	Set a sandstone 16x10x6 ins.11 ins.in the ground,for cor. of secs.13,14,23,and 24,marked 1 notch on E;3 notches on S edge,and raise a mound of stone 3 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil clay and rocky;2d.and 3d.rate.
	No timber.

Chains	
	Sage brush and shadscale;no grass.
	Mountainous land on 80.chs.

	S.89°59'E. on a random line bet.secs. 13 and 24.
40.00	Set temp.¼ sec.cor.
80.14	Intersect E bdy.of Tp.at cor.of secs.13,18,19,and 24. heretofore described. Thence I run
	N.89°59'W. on a true line bet.secs.13 and 24,in scattering cedars;descend.
1.00	Wash 30 lks.wide,3 ft.deep,drains SE. Ascend.
5.00	Enter bench 75 ft.above hollow bears NW and SE.
10.00	Leave bench;ascend.
11.00	Enter higher bench,bears NW and SE.
17.50	Leave same;descend.
22.79	Bottom of hollow 75 ft.below bench,drains SW. Ascend.
27.00	Top of ridge spur 50 ft.above hollow projects SW. Descend.
32.00	Leave cedars.
33.10	Bottom of hollow 75 ft.below spur drains SW. Ascend.
37.00	Top of ridge 40 ft.above hollow bears SW 5 chs. and NE 2 chs. Descend.
38.00	Bottom of hollow 30 ft.below ridge drains SW. Ascend.
40.07	Set a sandstone 14x8x6 ins. 10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
	Top of ridge spur 40 ft.above hollow,projects SE. Descend.
43.00	Bottom of hollow 50 ft.below spur drains SE. Ascend.
67.00	Top of ridge spur 100 ft.above hollow,projects SE. Descend.
72.00	Road bears NE and SW.
80.14	The cor.of secs.13,14,23,and 24.
	Land rolling and broken.
	Soil,rocky;2d.and 3d.rate.
	Timber,cedars on 32.chs.
	Sage brush and shadscale.
	Mountainous land on 80.14 chs.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	N.0° 1'W. bet.secs. 13 and 14.
	Ascend gradually.
17.50	Top of ridge spur 75 ft.above cor.projects SE. Descend.
27.00	Bottom of hollow 30 ft.below spur drains SE.
	Now across flat in hollow.
31.00	Wash 10 lks.wide,4 ft.deep,drains SE.
40.00	Set a sandstone 14x12x8 ins.9 ins.in the ground,for ¼ sec cor.marked ¼ on W face,and raise a mound of stone 8 ft. base,1½ ft.high W of cor. Pits impracticable.
41.00	Wash 10 lks.wide,3 ft,deep,drains SE. Ascend in hollow.
52.00	Top of ridge spur,40 ft.above hollow projects SE. Descend
55.00	Head of hollow drains SE. Ascend. Enter cedars.
67.50	Top of ridge spur 40 ft.above head of hollow projects SE. Descend.
80.00	Set a sandstone 16x8x8 ins. 11 ins.in the ground,for cor. of secs.11,12,13,and 14.marked 1 notch on E;4 notches on S edges,from which
	A cedar 6 ins.diam.bears N 45°30'E. 75 lks.dist.marked T 3 S.R 23 E.S 12 B T.
	A cedar 6 ins.diam.bears S 19° 30'E. 57 lks.dist.marked T 3 S.R.23 E.S 13 B T.
	A cedar 12 ins.diam.bears S 67°15'W. 50 lks.dist.marked T 3 S.R.23 E.S 14 B T.
	A cedar 12 ins.diam.bears N 67° 00'W. 42 lks.dist.marked T 3 S.R.23 E.S 11 B T.
	Land broken.
	Soil,rocky;3d.rate.
	Timber,cedars on N 25 chs.
	Sage brush;no grass.
	Mountainous land on 80.chs.

	S 89°59'E.on a random line bet.secs. 12 and 13.
40.00	Set temp.¼ sec.cor.
79.34	Intersect E bdy.of Tp.7 lks.N of cor.of secs. 7,12,13, and 18., heretofore described.

SUBDIVISION OF T.3 S. R.23 E.

Chains

Thence I run

N.89°56'W.on a true line bet.secs.12 and 13.

Descend,in cedars.

12.50 Bottom of hollow 30 ft.below cor.drains S. Ascend.

24.00 Top of ridge spur 125 ft.above hollow,projects S.

Descend.

29.50 Bottom of hollow 60 ft.below spur,drains S. Ascend.

32,00 Top of ridge spur,90 ft.above hollow,projects S. Descend.

35.00 Bottom of hollow 75 ft.below spur,drains S. Ascend.

39.97 Set a sandstone 24x14x8 ins.16 ins.in the ground,for ¼ sec.

cor.marked ¼ on N face, from which

A cedar 6 ins.diam.bears S 4°45'E. 56 lks.dist.marked

¼ S 13 B T.

A cedar 12 ins.diam.bears N 52°15'W. 16 lks.dist.marked

¼ S 12 B T.

47.00 Top of ridge spur 75 ft.above hollow projects S 15° E.

Descend.

51.00 Bottom of hollow 50 ft.below spur drains SE. Ascend.

58.00 Top of ridge spur 100 ft.above hollow projects SE.

Descend.

64.00 Bottom of hollow 40 ft.below spur drains SE. Ascend.

79.94 The cor.of secs. 11,12,13 and 14.

Land broken.

Soil rocky;3d.rate.

Timber,cedars on 79.94chs.

Mountainous land on 79.94chs.

(October,11th.1906.

October,12th.1906: At 7h.47m.,a.m.,l.m.t., I set off 40°74'

on lat.arc,7°10'S on decl.arc,and determine a meridian with

the solar at the cor.of secs. 11,12,13,and 14.

Thence I run

N.0°1'W. bet.secs. 11 and 12.

Ascend;in cedars.

21.00 Top of ridge spur 100 ft.above cor.projects SW. Descend.

40.00 Set a sandstone 18x14x8 ins.12 ins.in the ground,for ¼ sec.

SUBDIVISION OF T.3 S. R.23 E.

Chains	
	cor.marked ¼ on W face, from which
	A cedar 8 ins.diam.bears S 37°15'E.,17 lks.dist.marked ¼ S 12 B T.
	A cedar 6 ins.diam.bears S 65°00'W.46 lks.dist.marked ¼ S 11 B T.
44.00	Bottom of hollow 40 ft.below spur drains SW. Ascend.
57.00	Top of ridge spur 60 ft.above hollow,projects SW. Descend
72.00	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
80.00	Set a sandstone 18x14x6 ins.12 ins.in the ground for cor. of secs.1,2,11,and 12,marked 1 notch on E;5 notches on S edges, from which.
	A cedar 6 ins.diam.bears N 11°45'E. 14 lks.dist.marked T 3 S.R.23 E.S 1 B T.
	A cedar 12 ins.diam.bears S 61°15'E. 15 lks.dist.marked T 3 S.R.23 E.S 12 B T.
	A cedar 10 ins.diam.bears S 52°15'W. 13 lks.dist.marked T 3 S.R.23 E.S 11 B T.
	A cedar 9 ins.diam.bears N 44°00'W. 46 lks.dist.marked T 3 S.R.23 E.S 2 B T.
	Land broken.
	Soil,rocky;3d.rate.
	Timber,cedars on 80.chs.
	Mountainous land on 80.chs.

	S 89°56'E. on a random line bet.secs. 1 and 12.
40.00	Set temp.¼ sec.cor.
72.00	Intersect W bdy.of Tp.5 lks.S of cor.of secs.1,6,7, and 12 heretofore described. Thence I run N.39°58'W.on a true line bet.secs. 1 and 12.
	Descend.in cedars.
14.50	Bottom of hollow 30 ft.below cor. drains SE. Ascend.
26.00	Blair Spring bears N 10 chs.drains SE. good water.
	Top of ridge spur 20 ft.above hollow,projects SE. Descend.
34.00	Bottom of hollow 70 ft.below spur drains SE. Ascend.

SUBDIVISION OF T 3 S.R 23 E.

Chains

39.95 Set a sandstone 16x15x12 ins.11 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,from which

A cedar 8 ins.diam.bears N 12°45'E. 40 lks.dist.marked ¼ S 1 B T.

A cedar 10 ins.diam.bears S 61°00'E. 33 lks.dist.marked ¼ S 12 B T.

47.00 Top of ridge spur,125 ft.above hollow,projects SE. Descend.

53.00 Head of hollow drains SW.

59.50 Top of ridge spur/75 ft.above head of hollow,projects SW. Descend.

68.50 Bottom of hollow 40 ft.below spur,drains SW. Ascend.

79.90 The cor.of secs. 1,2,11,12.

Land mountainous.

Soil,rocky;3d.rate.

Timber,cedars on 79.90 chs.

Mountainous land on 79.90 chs.

Knowing that I can not close within limits on the N bdy.of Tp. I run [illegible]

N.0° 01'W.on a true line bet.secs. 1 and 2. Ascend.In cedars

5.00 Top of ridge spur 50 ft.above cor. projects SW. Descend.

27.00 Bottom of hollow 50 ft.below spur,drains SW. Ascend.

40.00 Set a sandstone 18x14x6 ins. 12 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,from which

A cedar 5 ins.diam.bears S.14°30'W.78 lks.dist.marked ¼ S 2 B T.

A cedar 7 ins.diam.bears N.22°15'E. 69 lks.dist.marked ¼ S 1 B T.

44.00 Foot of Diamond Mountain plateau;leave cedars; ascend.

68.00 Enter plateau;now ascend gradually over same.

80.06 Intersect N bdy.of Tp.at N.89°34'E.16.15 chs. from cor.of secs. 1,2,35,and 36,which is a porphyry 10x10x8 ins.above ground,marked and witnessed as described by the surveyor

Chains	
	general.
	At intersection, set a sandstone 18x12x9 ins.12 ins.in the ground, for closing cor.of secs. 1 and 2, marked 1 groove E;5 grooves on W;CC on S faces, and raise a mound of stone 2 ft.base, 1½ ft.high S of cor. Pits impracticable.
	I destroy all marks on cor.of secs. 1,2,35, and 36, pertaining to secs. 1 and 2.
	Land mountainous.
	Soil, gravelly and rocky; 2d.and 3d.rate.
	Timber, cedars on S 43.56 chs.
	Grass on N 12.00 chs.
	Mountainous land on 80.06 chs.

	From the cor.of secs. 2,3,34, and 35, on S bdy.of Tp.heretofore described.
	I run
	N.0°02'W.bet.secs.34 and 35.
	Ascend in brush.
0.50	Top of ridge spur 25 ft.above cor.projects W. Descend.
9.00	Bottom of hollow 75 ft.below spur, drains S 60°W.
	Ascend.
18.50	Top of ridge spur 75 ft.above hollow, projects S 60° W.
	Descend.
40.00	Set a limestone 16x14x8 ins.11 ins.in the ground, for ¼ sec cor.marked ¼ on W face; dig pits 18x18x12 ins. N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base, 1½ ft.high W of cor.
41.00	Bottom of hollow 75 ft.below spur, drains S 70° W.
	Ascend.
61.50	Top of ridge spur 100 ft.above hollow projects S 80° W.
	Descend.
80.00	Set a sandstone 18x12x4 ins.12 ins.in the ground, for cor.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	of secs.26,27,34,and 35,marked 1 notch on S;2 notches on E edges;dig pits 18x18x12 ins. in each sec,5½ ft.dist.and raise a mound of earth 4 ft.base 2 ft.high W of cor.
	Land rolling mountains.
	Soil,clay;3d.rate.
	No timber.
	Sage brush;no grass.
	Mountainous land on 80 chs.

	October,12th.1906: I set off 7°15'S on the decl.arc,and at 11h.,47m.,a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading 40°31' which agrees with other data.
	Thence I run
	East on a random line bet.secs, 26 and 35.
40.00	Set temp.¼ sec.cor.
80.05.	Intersect N and S line 7 lks.N of cor. of secs. 25,26,35 and 36.
	Thence I run
	N.89°57'W.on a true line bet.secs. 26 and 35.
	Ascend.in brush.
23.00	Top of ridge spur 30 ft.above cor.projects NE. Descend.
32.50	Bottom of hollow 75 ft.below spur,drains NE. Ascend.
40.02½	Set a limestone 12x10x6 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and dig pits 18x18x12 ins. E and W of stone 3 ft.dist.,raise a mound of earth 3½ ft.base 1½ ft.high N of cor.
42.00	Top of ridge spur 75 ft.above hollow projects NE. Descend.
47.00	Cove in bend of spur. Ascend.
52.00	Top of same ridge spur,projects SE. Descend.
55.50	Bottom of hollow 30 ft.below spur,drains SE. Ascend.
76.00	Top of ridge 75 ft.above hollow,watershed bet.Brush creek and Green river,bears N and S. Descend.
80.05	The cor.of secs. 26,27,34,and 35.
	Land rolling mountains.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	Soil,clay;2d.rate.
	No timber.
	White sage and sage brush;no grass.
	Mountainous land on 80.05 chs.

	N.0° 2'W. bet.secs. 26 and 27.
	Descend.
9.25	Wash 45 lks.wide,12 ft.deep,drains SW.
15.75	Wash 60 lks.wide,20 ft.deep,drains SW. Ascend.
28.00	SW point of spur.
33.00	Bottom of hollow 30 ft.below point of spur,drains SW.
	Ascend.
36.30	Top of ridge spur,100 ft.above hollow,projects SW.
	Descend.
40.00	Set a sandstone 16x9x8 ins. 11 ins.in the ground,for ¼ sec
	cor.marked ¼ on W face,and raise a mound of stone 2 ft.
	base,1½ ft.high W of cor. Pits impracticable.
46.25	Bottom of hollow 50 ft.below spur drains SW. Ascend.
50.15	Top of ridge spur 50 ft.above hollow projects SW.
	Descend.
56.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
58.50	Top of ridge spur 100 ft.above hollow,projects SW.
	Descend.
62.25	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
69.00	Top of ridge spur,100 ft.above hollow,projects SW.
	Descend.
78.75	Bottom of hollow 100 ft.below spur,drains W. Ascend.
80.00	Set a limestone 14x12x4 ins. 10 ins.in the ground,for cor.
	of secs.22,23,26 and 27,marked 2 notches on S;2 notches c.
	edges,and raise a mound of stone 2 ft.base 1½ ft.high W
	of cor. Pits impracticable.
	Land broken.
	Soil,clay and rocky;2d.and 3d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.00 chs.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	S.89°57'E. on a random line bet.secs. 23 and 26.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N and S line 2 lks.N of cor. of secs. 23,24,25 and 26.
	Thence I run
	N 89°56'W. on a true line bet.secs.23,and 26.
	Descend through sage.
0.40	Bottom of hollow 50 ft.below cor.drains S. Ascend.
6.00	Top of ridge spur 75 ft.above hollow,projects S 15° E.
	Descend.
10.00	Bottom of hollow 50 ft.below spur,drains S 15° E. Ascend.
16.00	Top of ridge spur 75 ft.above hollow projects S. Descend.
24.00	Bottom of hollow 75 ft.below spur,drains S. Ascend.
30.25	Top of ridge spur,100 ft.above hollow projects S.
	Descend.
33.40	Bottom of hollow 100 ft.below spur,drains S. Ascend.
38.00	Top of ridge spur 75 ft.above hollow,projects S.
	Descend.
40.05	Set a limestone 18x18x4 ins. 11 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and dig pits 18x18x18 ins.E and W of stone 3 ft.dist,and raise a mound of earth 3½ ft. base,1½ ft.high N of cor.
48.00	Bottom of hollow 100 ft.below spur,drains SE. Ascend.
62.75	Top of ridge spur 100 ft.above hollow projects SW.from hill.
	Descend.
66.00	Head of hollow drains NW. Ascend.
80.10	The cor.of secs. 22,23,26,and 27.
	Land broken.
	Soil,rocky;3d,rate.
	No timber.
	Salt sage;no grass.
	Mountainous land on 80.10 chs.
	(October,12th.1906.

N.0°2'W.bet.secs.22,and.23.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	Descend.through brush.
21.75	Bottom of hollow 100 ft.below cor.drains SW. Ascend.
40.00	Top of ridge spur,150 ft.above hollow projects SW. Descend.
	Set a sandstone 18x10x4 ins.12 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base, 1½ ft.high W of cor. Pits impracticable.
61.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
79.00	Top of ridge spur 100 ft.above cor. projects SW. Descend.
80.00	Set a sandstone 18x10x6 ins. 12 ins.in the ground,for cor. of secs.14,15,22,and 23,marked 2 notches on E;3 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil,rocky;3d.rate.
	No timber.
	Sage brush and salt sage.
	Mountainous land on 80.chs.

	S 89°56'E.on a random line bet.secs. 14 and 23.
40.00	Set temp.¼ sec.cor.
79.94	Intersect N and S line 5 lks.S of cor.of secs. 13,14,23, and 24.
	Thence I run
	N.89°58'W.on a true line bet.secs. 14 and 23.
	Descend gradually.through brush.
7.33	Road bears NW.and SE. Enter flat.
20.00	Wash 40 lks.wide,6 ft.deep,drains NW.
35.22	Same wash drains SW.
39.00	Leave flat;ascend.
39.97	Set a sandstone 18x8x6 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face;and raise a mound of stone 2 ft.base, 1½ ft.high N of cor. Pits impracticable.
44.00	Top of ridge spur,75 ft.above hollow,projects SW. Descend.
55.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
65.00	Top of ridge spur 50 ft.above hollow projects SW. Descend.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
77.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
79.00	Top of ridge spur 50 ft.above hollow,projects SW. Descend.
79.94	The cor.of secs. 14,15,22,and 23.
40.94	Land rolling,and level.
39.00	Soil,clay and rocky,2d.and 3d.rate.
	No timber.
	Sage brush,salt sage,shadscale;no grass.
	Mountainous land on 40.94 chs.

	N.0° 2'W. bet.secs. 14 and 15.
	Descend gradually,through cedars.
4.88	Wash 25 lks.wide;4 ft.deep,drains S.W.
8.50	Road bears E and W.
22.00	Road to cedars bears NE and SW.
38.00	Leave flat;ascend. Enter cedars;leave sage.
40.00	Set a sandstone 18x10x6 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 4 ins.diam.bears N 53°00'E.120 lks.dist.marked ¼ S 14 B T.
	A cedar 4 ins.diam.bears S 76°45'W. 184 lks.dist.marked ¼ S 15 B T.
41.00	Top of ridge spur 40 ft.above cor.projects SE. Descend.
43.00	Bottom of hollow 50 ft.below spur,drains SE. Ascend,
49.00	Top of ridge spur 200 ft.above hollow,projects SE.
	Ascend same.
57.00	Top of ridge spur,100 ft.above last spur,projects SE.
64.00	E slope of hill Descend.
67.90	Bottom of hollow 100 ft.below slope of hill,drains W.
	Now ascend E side of broken hollow.
80.00	Set a sandstone 18x10x5 ins.11 ins.in the ground,for cor. of secs. 10,11,14,and 15,marked 2 notches on E;4 notches on S edges. from which.
	A cedar 6 ins.diam.bears N 57°00"E.12 lks.dist.marked T 3 S.R.23 E.,S 11 B T.

Chains	
	A cedar 4 ins.diam.bears S.71°30'E. 27 lks.dist.marked
	T 3 S.R.23 E.,S 14 B.T.
	A cedar 9 ins.diam.bears S 9°45'W. 19 lks.dist.marked
	T 3 S.R 23 E.S 15 B.T.
	A cedar 8 ins.diam.bears N 33°45'W. 17 lks.dist.marked
	T 3 S.R 23 E.S 10 B.T.
	Land mountainous.
	Soil,clay and rocky;2d.and 3d.rate.
	Timber,cedars on 52.chs.
	Some grass and white sage.
	Mountainous land on 80.chs.
	S 89°58'E.on a random line bet.secs. 11 and 14.
40.00	Set temp.¼ sec.cor.
80.06	Intersect N and S line 7 lks.S of cor.of secs.11,12,13, and 14.
	Thence I run
	S 89°59'W.on a true line bet.secs. 11 and 14. Ascend.
	In scattering cedars.
5.50	Top of ridge spur 75 ft.above cor.projects SW. Descend.
11.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
19.00	Top of ridge spur 50 ft.above hollow projects SW. Ascend.
40.03	Set a sandstone 18x12x8 ins.13 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 10 ins.diam.bears S 45°30'E. 40 lks.dist.marked ¼ S 14 B T.
	A cedar 12 ins.diam.bears N 1°00'W. 105 lks.dist.marked ¼ S 11 B T.
43.50	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
55.00	Top of ridge spur,75 ft.above hollow,projects SW. Descend.
71.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
80.06	The cor.of secs. 10,11,14,and 15.
	Land mountainous.
	Soil rocky;3d.rate.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
	Timber,scattering cedars on 80.06 chs.
	Mountainous land on 80.06 chs.
	October,13th.1906: I set off 7°38'S on decl.arc;and at 11h.46m a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading,40°34',which agrees with other data.
	Thence I run
	N.0° 2'W.bet.secs. 10 and 11.
	Ascend gradually through white sage.
10.00	Wash 20 lks.wide,3 ft.deep,drains S 10° W. Enter cedars.
40.00	Set a sandstone 30x14x12 ins. 22 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,from which
	A cedar 6 ins.diam.bears S 60°00'E. 60 lks.dist.marked ¼ S 11 B T.
	A cedar 8 ins.diam.bears N 36°15'W. 20 lks.dist.marked ¼ S 10 B T.
52.50	Top of ridge spur 100 ft.above cor. projects SW. Descend.
66.50	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
74.00	Top of ridge spur,50 ft.above hollow projects S 80°W. Descend.
77.00	Bottom of hollow 50 ft.below spur,drains S 80° W. Ascend;leave cedars;
80.00 27.50 52 50	Set a sandstone 18x10x9 ins.12 ins.in the ground,for cor.of secs. 2,3,10,and 11,marked 2 notches on E;5 notches on S. edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land level and broken.
	Soil,clay and rocky;2d.and 3d.rate.
	Timber,cedars on 67.00 chs.
	White sage on 10.00 chs.
	Mountainous land on 27.50 chs.
	N.89°59'E.on a random line bet.secs. 2 and 11.
40.00	Set temp.¼ sec.cor.
80.02	Intersect N and S line 9 lks.S of cor.of seds.1,2,11,and 12.
	Thence I run
	S 89°57'W.on a true line bet.secs.2 and 11.
	Ascend in cedars.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
3.50	Top of ridge spur 20 ft.above cor.projects SW. Descend.
18.00	Bottom of hollow 70 ft.below spur,drains SW. Ascend.
29.00	Top of ridge spur 70 ft.above hollow projects SW. Descend.
40.01	Set a sandstone 20x12x10 ins.15 ins.in the ground,for ¼ sec cor.marked ¼ on N face,from which
	A cedar 5 ins.diam.bears S 65°45'E.122 lks.dist.marked ¼ S 11 B T.
	A cedar 18 ins.diam.bears N.64°30'E.133 lks.dist.marked ¼ S 2 B T.
43.50	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
50.00	Top of ridge spur 150 ft.above hollow,projects SW. Descend
55.00	Leave cedars.
80.02	The cor.of secs. 2,3,10,and 11.
	Land broken.
	Soil,rocky;3d.rate.
	Timber,cedars on E.55.00 chs.
	Some grass.
	Mountainous land on 80.02 chs.

Knowing that I can not close within limits on the N bdy. of Tp.

I run

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

Across flat,through cedars.

12.00	Wash 20 lks.wide,3 ft.deep,drains SW. Ascend.
20.00	Top of ridge spur,50 ft.above wash,projects SW. Descend.
25.00	Head of hollow drains SW. Ascend.
28.50	Top of ridge spur,40 ft.above hollow,projects SW. Descend.
40.00	Set a sandstone 18x14x9 ins. 12 ins.in the ground,for ¼ sec cor.marked ¼ on W face,from which
	A cedar 10 ins.diam.bears S 33°15'E. 20 lks.dist.marked ¼ S 2 B T.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
	A cedar 12 ins.diam.bears N.41°00'W. 18 lks.dist.marked ¼ S 3 B T. Ascend.
46.00	Top of knoll 50 ft.high;descend.
60.00	Wash 30 lks.wide,3 ft.deep,drains SW.
64.50	Wash 30 lks.wide,10 ft.deep,drains SW. Ascend.
75.50	Spring Branch,water 5 lks.wide,2 ins.deep,good quality, flows SW in bottom of gully,10 ft.deep,from Bowery Spring.
79.86	Intersect N bdy.of Tp.at N.89°51.E.16.05 chs.from cor.of secs.2,3,34,and 35,which is a sandstone 8x8x8 ins.above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a sandstone 14x12x8 ins.10 ins.in the ground,for closing cor.of secs. 2 and 3,marked 2 grooves on E;4 grooves on W;CC on S faces,and raise a mound of stone 2 ft.base,1½ ft.high S of cor. Pits impracticable. from which
	A cedar 6 ins.diam.bears S 15°30'W. 97 lks.dist.marked T 3 S.R 23 E.S 3 B T. No others within limits.
	I destroy all marks on old cor.pertaining to secs,2 and 3.
	Land broken mountain slope.
	Soil rocky;3d.rate.
	Timber,cedars on 79.86 chs.
	Mountainous or heavily timbered land on 79.86 chs.

	October,13th.1906: At 2h.46m.,p.m.,l.m.t., I set off 40°30' on lat.arc;7°40'on decl.arc,and determine a meridian with the solar,at the cor.of secs.3,4,33,and 34,on S bdy.of Tp. heretofore described.
	Thence I run
	N.0° 2'W. bet.secs. 33 and 34.
	Descend over rolling land in brush.
5.00	Bottom of hollow 20 ft.below cor.drains S 80°W. Ascend.
11.50	Top of ridge spur 30 ft.above hollow;projects SW. Descend.
23.00	Bottom of hollow 25 ft.below spur,drains SW. Ascend.
36.50	Top of ridge spur,50 ft.above hollow,projects SW. Descend.
40.00	Set a limestone 12x10x6 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face;dig pits 18x18x12 ins. N and S of

SUBDIVISION OF T 3 S.R 23 E.

Chains stone,3 ft.dist.and raise a mound of earth 3½ ft.base,1½ high W of cor.

64.50 Bottom of hollow 75 ft.below spur,drains SW. Ascend.

72.00 Enter bench,bears NE and SW. Now across same.

80.00 Set a sandstone 14x10x8 ins.9 ins.in the ground,for cor. secs.27,28,33 and 34,marked 1 notch on S;3 notches on E. edges,and raise a mound of stone 2 ft.base,1½ ft.high W o. cor. Pits impracticable.

Land rolling.

Soil,clay;2d.rate,

No timber.

Sage brush,shadscale and salt sage.

Mountainous land on 15.50 chs.

East on a random line bet.secs.27 and 34.

40.00 Set temp.¼ sec.cor.

80.02 Intersect N and S line 5 lks.S of cor.of secs.26,27,34, and 35.

Thence I run

S.29°58'W.on a true line bet.secs.27 and 34.

Descend over rolling land,in brush.

5.50 Bottom of hollow 15 ft.below cor.drains N 15° W. Ascend.

20.00 Top of ridge spur 25 ft.above hollow,projects NW. Descend.

40.01 Set a sandstone 12x8x6 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face;dig pits 18x18x12 ins.E and W of stone,3 ft.dist.and raise a mound of earth 3½ ft.base,1½ high N of cor.

60.00 Bottom of hollow 40 ft.below spur,drains NW. Ascend.

67.00 Top of ridge spur 20 ft.above hollow,projects NW. Descend.

72.50 Bottom of hollow 40 ft.below spur,drains SW. Ascend.

76.50 Enter bench,bears NE and SW. Now across same.

80.02 The cor.of secs. 27,28,33 and 34.

Land rolling.

Soil clay;2d.rate.

No timber.

Sage brush,shadscale and salt sage.

Rolling land on 30.02 chs.

SUBDIVISION OF T.3 S. R.23 E.

Chains	
	N.0° 8'W. bet.secs. 27 and 28.
	Ascend gradually over bench in brush.
23.00	Descend from bench.
28.00	Bottom of hollow 30 ft.below bench drains SW. Ascend.
40.00	Set a sandstone 20x10x4 ins.15 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
57.40	Top of bench spur 40 ft.above hollow,projects SW. Descend.
62.50	Head of hollow drains SW. Ascend.
65.00	Enter bench bears NE and SW. Now ascend over same.
72.00	Road to cedars bears NE and SW.
80.00	Set a sandstone 18x10x3 ins.12 ins.in the ground,for cor. of secs. 21,22,27 and 28,marked 2 notches on S;3 notches on E edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil,clay;2d.rate.
	No timber.
	Sage brush and shadscale.

	N 89°58'E. on a random line bet.secs. 22 and 27.
40.00	Set temp ¼ sec.cor.
79.96	Intersect N and S line 7 lks.N of cor.of secs. 22,23,26, and 27.
	Thence I run
	N 89°59'W.on a true line bet.secs. 22 and 27.
	Descend.in brush.
24.00	Bottom of hollow 50 ft.below cor.drains SW. Ascend.
32.00	Top of ridge spur 100 ft.above hollow,projects SW. Ascend.
38.50	Bottom of hollow 100 ft.below spur,drains SW. Ascend.
39.98	Set a limestone 16x8x4 ins. 11 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
46.00	Top of ridge spur 100 ft.above hollow projects SW. Descend.
59.15	Bottom of hollow 50 ft.below spur drains SW. Ascend.

SUBDIVISION OF T.3 S. R.23 E.

Chains	
71.00	Enter bench;bears NE and SW. Now across same.
76.85	Road to cedars bears NE and SW.
79.96	The cor.of secs. 21,22,27 and 28.
	Land broken.
	Soil,clay,2d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 79.96 chs.
	(October,13th.1906.
	October,15th: At 7h.46m.,a.m.,l.m.t., I set off 40° 32' on lat.arc;8°08' S on decl.arc,and determine a meridian with the solar,at the cor.of secs. 21,22,27 and 28.
	Thence I run
	N 0° 2'W. bet.secs. secs.21 and 22.
	Ascend gradually over bench in brush.
37.00	Enter scattering cedars.
40.00	Set a sandstone 20x14x3 ins. 15 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 6 ins.diam.bears S 37°00'W.51 lks.dist.marked ¼ S 21 B T.
	A cedar 4 ins.diam.bears N 35°45'E. 28 lks.dist.marked ¼ S 22 B T.
49.00	Leave bench;descend.
54.50	Bottom of hollow 75 ft.below bench drains SW. Leave cedar Ascend.
80.00	Set a sandstone 20x12x4 ins. 15 ins in the ground,for cor. of secs.15,16,21,and 22,marked 3 notches on S;3 notches on W edges;T 3 S.on NE;R 23 E.on SE faces,and raised a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil,clay;2d.rate.
	Timber;cedars on 17.50 chs.
	Sage brush and shadscale.

SUBDIVISION OF T.3 S. R.23 E.

Chains	
	S.39°59'E.on a random line bet.secs. 15 and 22.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.03	Intersect N and S line 5 lks.N of cor.of secs. 14,15,22, and 23.
	Thence I run
	N 89° 57'W.on a true line bet.secs. 15 and 22.
	Descend.
3.50	Bottom of hollow 40 ft.below cor.drains SW. Ascend.
10.00	Top of ridge spur,40 ft.above hollow projects SW. Descend.
15.00	Road to cedars bears NE and SW.
16.50	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
32.50	Top of ridge spur 50 ft.above hollow projects S then SW.
	Descend.
40.01$\frac{1}{2}$	Set a sandstone 15x12x4 ins.10 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face and raise a mound of stone 2 ft. base 1$\frac{1}{2}$ ft.high N of cor. Pits impracticable.
44.00	Hollow 15 ft.below spur drains SW. Enter cedars;ascend.
55.00	Top of ridge spur 35 ft.above hollow,projects SW. Descend.
60.00	Bottom of hollow 100 ft.below spur drains SW. Ascend.
76.50	Top of ridge spur 150 ft.above hollow projects S. Descend.
76.80	Leave cedars.
80.03	The cor.of secs. 15,16,21 and 22.
20.03	
60.00	Land broken.
	Soil clay and rocky;3d.and 4d.rate.
	Timber,cedars on 32.30 chs.
	Salt sage;no grass.
	Mountainous land on 20.03 chs.

	N 0° 2'W. bet.secs. 15 and 16.
	Ascend.
2.00	Top of ridge spur 40 ft.above cor.projects SW. Descend.
	Now along W slope of hill.
24.00	Bottom of hollow 150 ft.below slope of hill drains SW.
	Ascend.
36.00	Top of ridge spur 100 ft.above hollow projects SW. Descend.

Chains	
40.00	Set a sandstone 15x12x5 ins.10 ins.in the ground,for $\frac{1}{4}$ se cor.marked $\frac{1}{4}$ on W face and raise a mound of stone 2 ft.ba $1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
43.50	Bottom of hollow 50 ft.below spur drains SW. Ascend.
55.00	Top of ridge spur 50 ft.above hollow projects NE from hil Descend.
67.80	Wash 60 lks.wide,10 ft.deep,drains SW.in a basin bearing NE and SW.
80.00	Set a sandstone 16x14x5 ins.11 ins.in the ground,for cor. of secs.9,10,15,and 16,marked 3 notches on E;4 notches on edges,raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high W of co. Pits impracticable.
	Land level and broken mountain slopes.
	Soil clay,2d.rate.
	No timber.
	Sage brush and salt sage;no grass.
	Mountainous land on 67.80 chs.

	S 89°57'E.on a random line bet.secs. 10 and 15.
40.00	Set a temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N and S line 12 lks.S of cor.of secs. 10,11,14, and 15.
	Thence I run
	S 89°58'W on a true line bet.secs. 10 and 15.
	Descend;In cedars.
1.00	Bottom of hollow 20 ft.below cor.drains SW. Ascend.
4.35	Top of ridge spur 150 ft.above hollow projects S 20° W. Descend.
16.00	Bottom of hollow 75 ft.below spur drains S. Leave cedars
18.00	Top of ridge spur 50 ft.above hollow projects S. Descend
22.50	Bottom of hollow 25 ft.below spur drains SW. Ascend.
32.25	Top of ridge spur 75 ft.above hollow projects S. Descend
36.20	Bottom of hollow 75 ft.below spur drains SW.
40.00	Set a sandstone 16x8x6 ins. 11 ins.in the ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft

SUBDIVISION OF T.3 S. R.23 E.

Chains	
	base 1½ ft.high N of cor. Pits impracticable.
40.36	Wash 4 lks.wide,3 ft.deep,drains SW. Ascend.
44.00	Top of rocky ridge spur,40 ft.above hollow,projects S 20° W. Descend.
47.00	Bottom of hollow 30 ft.below spur,drains S 20° W. Ascend.
53.00	Top of ridge spur 100 ft.above hollow projects S 20° W.
61.00	Enter basin bears NE and SW.
67.10	Wash 30 lks.wide,10 ft.deep,drains SW.
80.00	The cor.of secs. 9,10,15 and 16;
61 / 19.00	Land broken and level.
	Soil clay and rocky;2d.and 3d.rate.
	Timber;cedars on 16 chs.
	Sage brush;a little grass.
	Mountainous land on 61 chs.

	N 0° 2'W. bet.secs. 9 and 10.
	Ascend gradually in basin.
39.25	Wash 15 lks.wide,2½ ft.deep,drains SW.
40.00	Set a sandstone 16x14x3 ins. 14 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.
40.97	Vernal-Rock Springs road,bears NE and SW.
44.82	Wash 35 lks.wide 6 ft.deep,drains SW. Enter cedars.
54.45	Same wash drains S 15° E.
63.00	Same wash drains SW. Ascend.
70.00	Top of ridge spur 75 ft.above wash projects W. Descend.
74.75	Leave cedars. Enter small basin,bears NE and SW.
77.15	Wash 20 lks.wide,3 ft.deep,drains SW.
80.00	Set a sandstone 20x8x6 ins. 15 ins.in the ground,for cor.
11.75 / 68.25	of secs. 3,4,9,and 10,marked 3 notches on E;5 notches on S edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor, from which
	A cedar 6 ins.diam.bears S 44°45'E. 148 lks.dist.marked T 3 S.R.23 E. S 10 B T.

SUBDIVISION OF T.3 S.R.23 E.

Chains	
	A cedar 6 ins.diam.bears N 52°15'E. 115 lks.dist.marked T 3 S.R 23 E.S 3 B T.
	No other trees within limits.
	Land level and rolling.
	Soil clay and rocky;2d.and 3d.rate.
	Timber,cedars or 29.93 chs.
	Sage brush;no grass.
	Mountainous land on 11.75 chs.

	October,15th.1906: I set off 8°22'S on the decl.arc,and at 11h.46m.,a.m.,l.m.t., observe the sun on the meridian and obtain on the lat.arc,the reading 40°35',which agrees with other data.
	Thence I run N 89°58'E. on a random line bet.secs. 3 and 1
40.00	Set temp.¼ sec.cor.
80.02	Intersect N and S line 5 lks.N of cor.of secs. 2,3,10 and 1
	Thence I run
	West on a true line bet.secs. 3 and 10.
	Descend in hollow in sage brush.
19.00	Wash 30 lks.wide,5 ft.deep,drains S 70° W. in hollow.
	Ascend in cedars.
37.50	Top of ridge spur 75 ft.above wash,projects SW. Descend.
40.01	Set a sandstone 16x12x9 ins.11 ins.in the ground,for ¼ sec.cor.marked ¼ on N face., from which
	A cedar 6 ins.diam.bears S 71°15'E.76 lks. dist.marked ¼ S 10 B T.
	A cedar 8 ins.diam.bears N 33°30'W. 45 lks.dist.marked ¼ S 3 B T.
50.00	Bottom of hollow 75 ft.below spur drains SW. Ascend.
59.00	Top of ridge spur 75 ft.above hollow projects SW. Descend.
66.00	Vernal-Rock Springs road bears NE and SW.
70.00	Bottom of hollow 30 ft.below spur draisn SW.
78.00	Wash 15 lks.wide,3 ft.deep,in same hollw drains SW.
80.02	The cor.of secs. 3,4,9,and 10.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
	Land broken.
	Soil rocky;3d.rate.
	Timber,cedars on 61.02 chs.
	Sage brush;no grass.
	Mountainous land on 80.02 chs.

	Knowing I can not intersect the N bdy.of the Tp.within limits
	I run
	N.0°2'W.on a true line bet.secs. 3 and 4. Ascend.
2.00	Enter cedars.
19.50	Top of ridge spur 100 ft.above cor.projects SW. Descend
25.50	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
40.00	Set a sandstone 18x16x5 ins.12 ins.in the ground for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 5 ins.diam.bears N.66°00'E. 35 lks.dist.marked ¼ S 3 B T.
	A cedar 6 ins. diam.bears S 69°00'W. 31 lks.dist.marked ¼ S 4 B T.
49.25	Top of ridge spur 100 ft.above hollow projects SW. Descend.
61.50	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
70.10	Gully 10 ft.deep,drains SW. Ascend.
79.80	Intersect N bdy,of Tp.16.02 chs.E of cor.of secs. 3,4,33 and 34,heretofore described.
	At intersection,set a sandstone 16x12x6 ins.12 ins.in the ground,for closing cor.of secs. 3 and 4,marked 3 grooves on E;3 grooves on W,and CC on S faces,from which.
	A cedar 6 ins.diam.bears S 15°45'E.36 lks.dist.marked T 3 S.R.23 E.S 3 B T.
	A cedar 5 ins.diam.bears S 22°15'W.54 lks.dist.marked T 3 S.R 23 E.S 4 B T.
	I destroy all marks on old cor.pertaining to secs. 3 and 4
	Land mountainous.
	Soil rocky;3d.rate.
	Timber,cedars on 77.80 chs.
	Mountainous or heavily timbered land on 79.80 chs.
	(October,15th.1906.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
	October,16th.1906: At 7h.47m.,a.m.,l.m.t., I set off 40 on lat arc;8°40'S.on decl.arc,and determine a meridian wi the solar,at the cor.of secs. 4,5,32,and 33,on S bdy.of Tp. heretofore described.
	Thence I run
	N.0° 3'W. bet.secs. 32 and 33.
	Ascend in sage brush and shadscale.
5.00	Enter bench,bears NE and SW.
17.00	Road to cedars bears NE and SW.
19.00	Leave bench;descend along broken slope.
33.30	Bottom of hollow 50 ft.below bench drains SW. Ascend.
36.00	Top of bench 75 ft.above hollow,projects SW. Descend.
40.00	Set a sandstone 18x12x8 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 base,1½ ft.high W of cor. Pits impracticable.
42.25	Bottom of hollow 100 ft.below spur,drains SW.
	Ascend.
50.50	Top of bench spur,75 ft.above hollow,projects E.
	Descend.
53.90	Bottom of hollow 100 ft.below spur,drains E. Ascend.
62.25	Top of bench spur 150 ft.above hollow,projects NE.
	Descend.
69.00	Bottom of hollow 50 ft.below spur,drains E.
	Ascend.
72.50	Enter bench spur,projects S,,ascend.same.
80.00	Set a sandstone 15x12x8 ins. 10 ins.in the ground,for cor of secs. 28,29,32,and 33,marked 1 notch on S;4 notches on E edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.
	Soil clay;2d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.00 chs.

SUBDIVISION OF T.3 S.,R.23 E.

Chains	
	East on a random line bet.secs. 28 and 33.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.86	Intersect N and S line 7 lks.S of cor. of secs. 27,28,33 and 34.
	Thence I run
	S 89°57'W.on a true line bet.secs. 28 and 33.
	Across bench.in brush.
22.50	Leave bench;descend.
26.50	Bottom of hollow 50 ft.below bench drains S. Ascend.
31.50	Enter bench 50 ft.above hollow,bears N and S.
39.98	Set a sandstone 18x12x5 ins. 13 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
50.00	Road to cedars bears NE and SW. Ascend.
55.00	Top of bench spur 25 ft.above bench,projects SW.
	Descend.
67.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
69.50	Top of bench spur,50 ft.above hollow,projects S.
	Descend.
71.33	Bottom of hollow 100 ft.below spur drains S. Ascend.
77.50	Enter bench spur,100 ft.above hollow,projects S.
79.86	The cor.of secs. 28,29,32,and 33.
	Land broken.
	Soil clay and rocky,2d.and 3d.rate.
	No timber.
	Sage brush;some grass.
	Mountainous land on 79.86 chs.

	N 0° 3'W. bet.secs.28 and 29.
	Ascend over bench spur.
4.50	Leave bench spur;descend.
6.50	Bottom of hollow 30 ft.below spur,drains E. Ascend.
9.00	Enter bench 100 ft.above hollow,bears NW and SE:
15.00	Leave bench;descend.
27.00	Bottom of hollow 50 ft.below bench drains SE. Ascend.

Chains	
40.00	Set a sandstone 20x14x4 ins. 15 ins. in the ground, for 1/4 cor. marked 1/4 on W face, and raise a mound of stone 2 ft. base 1½ ft. high W of cor. from which
	A cedar 6 ins. diam. bears S 56°30'E. 50 lks. dist. marked 1/4 S 28 B T. No other trees within limits.
46.50	Enter scattering cedars.
50.00	Top of ridge 50 ft. above 1/4 sec. cor. bears NE and SW.
	Descend.
54.00	Leave cedars.
60.50	Bottom of hollow 100 ft. below top of ridge drains SW.
	Ascend.
72.50	Top of spur from large hill projects W. Descend.
80.00	Set a sandstone 18x10x6 ins. 12 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked 2 notches on S; 4 notches on E edges, and raise a mound of stone 2 ft. base 1½ ft. high W of cor. Pits impracticable.
	Land mountainous.
	Soil, clay, 2d. rate.
	Timber, cedars on 7.50 chs.
	Sage brush; some grass.
	Mountainous land on 80. chs.

	N 89°57'E. on a random line bet. secs. 21 and 28.
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect N and S line 14 lks. N of cor. of secs. 21, 22, 27, and 28.
	Thence I run
	N 89°57'W. on a true line bet. secs. 21 and 28.
	Over brush covered bench, bears N and S.
5.00	Enter cedars.
9.50	Leave bench, bears N. and S., Descend.
10.50	Leave cedars.
21.00	Bottom of hollow 75 ft. below bench drains S. Ascend.
40.02	Set a sandstone 18x8x6 ins. 12 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N face, and raise a mound of stone 2 base, 1½ ft. high N of cor. Pits impracticable.

SUBDIVISION OF T.7 S.,R.23 E.

Chains	
72.50	Toy of spur from high hill projects N. Descend.
80.04	The cor.of secs. 20,21,28 and 29.
	Land mountainous.
	Soil,clay and rocky;2d.and 3d.rate.
	Timber,cedars on 5.30 chs.
	Sage brush and shadscale;no grass.
	Mountainous land on 80.04 chs.

	October,16th.1906: I set off 8°45'S on the decl.arc,and at 11h.46m.,a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading 40°32',which agrees with other data.
	Thence I run N.0°7'W.bet.secs.20 and 21.
	Over almost level land in sage brush.
3.00	Wash 10 lks.wide,3 ft.deep,drains SW.
72.00	Wash 30 lks.wide,3 ft.deep,drains SW.
40.00	Set a sandstone 14x9x3 ins.9 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.
80.00	Set a sandstone 15x12x10 ins.10 ins.in the ground,for cor. of secs. 16,17,20,and 21,marked 3 notches on S;4 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land level and rolling.
	Soil clay,2d.rate.
	No timber.
	Sage brush.

	S 89°57'E.on a random line bet.secs. 16 and 21.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N and S line 2 lks.W of cor.of secs. 15,16,21, and 22.
	Thence I run
	N 89°58'W.on a true line bet.secs. 16 and 21.
	Descend.in brush.

Chains	
17.75	Bottom of hollow 100 ft.below cor. drains S. Ascend.
29.86	Top of ridge 150 ft.above hollow bears NE and SW. Des
40.00	Set a limestone 18x12x3 ins. 12 ins.in the ground,for 1/4 sec.cor.marked 1/4 on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
50.00	Bottom of hollow 50 ft.below ridge drains SW. Ascend.
53.00	Top of ridge spur 50 ft.above hollow projects S. Descend.
55.85	Bottom of hollow 50 ft.below spur,drains S. Ascend.
57.75	Enter higher flat on bench,bears N and S. Now across same.
64.75	Wash 5 lks.wide,2 ft.deep,drains S 10° W.
80.00	The cor.of secs. 16,17,20,and 21. Land broken and level. Soil clay;3d rate. No timber. Salt sage,sage brush;no grass. Mountainous land on 80.chs.

N 0° 3'W. bet.secs. 16 and 17. Across bench in brush.

13.00	Foot of hill;ascend precipitous S slope.
18.50	Enter top of hill;now across same.
29.90	Leave same;descend precipitous slope.
36.00	Road to Jensen bears NE and SW.
39.00	Vernal-Rock Springs road bears NE and SW.
40.00	Set a sandstone 24x6x4 ins. 16 ins.in the ground for 1/4 sec.cor.marked 1/4 on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.
46.00	Enter cedars;ascend S slope.
48.50	Top of ridge spur 100 ft.above 1/4 sec.cor. projects SW. Descend.
52.00	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
54.00	Top of ridge spur 100 ft.above hollow projects SW. Desc
70.00	Bottom of hollow 75 ft.below spur drains SW. Ascend.

SUBDIVISION OF T.3 S. R.23 E.

Chains

80.00 Set a sandstone 14x12x4 ins.10 ins.in the ground,for cor. of secs. 8,9,16,and 17,marked 4 notches on S;4 notches O E edges, from which

A cedar 8 ins.diam.bears N 25°15'E. 92 lks.dist.marked T 3 S.R 23 E.S 9 B T.

A cedar 4 ins.diam.bears S 49°30'E. 10 lks.dist.marked T 3 S.R 23 E S 16 B T.

A cedar 4 ins.diam.bears S 43°00'W. 93 lks.dist.marked T 3 S.R 23 E.S 17 B T.

A cedar 4 ins.diam.bears N 42°45'W. 13 lks.dist.marked T 3 S.R 23 E.S 8 B T.

Land broken.

Soil,rocky;3d.rate.

Timber,cedars on 34.chs.

Sage brush;no grass.

Mountainous land on 80.chs.

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

40.00 Set temp.¼ sec.cor.

80.01 Intersect N and S line 5 lks.N of cor.of secs. 9,10,15 and 16.

Thence I run

N 89°56'W.on a true line bet.secs. 9 and 16. over level and.

0.55 Wash,in basin,8 lks.wide,3 ft.deep,drains S.

31.00 Wash 30 lks.wide,5 ft.deep,drains S.

34.00 Vernal-Rock Springs road bears NE and SW.

35.50 Wash 40 lks.wide,3 ft.deep,drains S.then SW. Ascend.

40.00½ Set a sandstone 18x6x6 ins.12 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 3 ft.base 1½ ft.high N of cor. Pits impracticable.

46.40 Top of ridge spur 100 ft.above basin,projects S.

Descend.

53.00 Bottom of hollow 75 ft.below spur,drains S.

Ascend precipitous E slope.

73.00 Enter cedars.

Chains	
78.50	Rim of reef,250 ft.above hollow,bears SE and NW.
	Descend in dense cedars.
80.01	The cor.of secs. 8,9,16,and 17.
44.51	Land level and broken.
5.50	Soil clay and rocky;2d.and 3d.rate.
	Timber,dense cedars on 2.01 chs.
	Sage brush.
	Mountainous land on 44.51 chs.
	(October,16th.1906.
	October,17th.At 7h.46m.,a.m.,l.m.t., I set off 40°34' on lat.arc,9°02'S on decl.arc,and determine a meridian with the solar at the cor.of secs. 8,9,16,and 17.
	Thence I run
	N.0°3'W. bet.secs. 8 and 9.
	Ascend. In cedars.
7.90	Rim of reef 50 ft.above cor. bears NW and SE.
	Leave cedars;descend.
22.90	Bottom of hollow 150 ft.below rim of reef,drains SE.
	Ascend.
36.00	Enter cedars.
40.00	Set a limestone 20x10x4 ins.15 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 8 ins.diam.bears S 38°15'E. 2 lks.dist.marked ¼ S 9 B T.
	A cedar 5 ins.diam.bears N 85°15'W. 17 lks.dist.marked ¼ S 8 B T.
60.00	Top of ridge 200 ft.above hollow,bears NE and SW.
	Descend.
80.00	Set a sandstone 24x18x3 ins.18 ins.in the ground,for cor. of secs. 4,5,8,and 9,marked 4 notches on E;5 notches on S edges,and from which
	A cedar 8 ins.diam.bears N 48°00'E. 20 lks.dist.marked T 3 S.R 23 E.S 4 B T.

SUBDIVISION OF T.3 S.R 23 E.

Chain

A cedar 7 ins.diam.bears S 23°00'E. 13 lks.dist.marked T 3 S.R 23 E.S 9 B T.

A cedar 6 ins.diam.bears S 55°00'W. 8 lks.dist.marked T 3 S.R 23 E.S 9 B T.

A cedar 6 ins.diam.bears N 13°30'W. 36 lks.dist.marked T 3 S.R 23 E.S 3 B T.

Land mountainous.

Soil,rocky;2d.rate.

Timber,cedars on 51.00 chs.

Salt sage;no grass.

Mountainous land on 30.chs.

S 39°56'W. on a random line bet.secs. 4 and 9.

40.00 Set temp.¼ sec.cor.

80.06 Intersect N and S line at cor.of secs. 3,4,9,and 10.

Thence I run

N.89°56'W.on a true line bet.secs. 4 and 9.

Ascend for cedars.

5.50 Top of ridge spur 50 ft.above cor.projects SW. Descend.

10.00 Bottom of hollow 70 ft.below spur,drains SW. Ascend.

20.00 Top of ridge spur 50 ft.above hollow projects SW then S. Descend.

24.00 Leave cedars.

36.00 Wash 20 lks.wide,15 ft.deep,drains SW.

40.00 Set a sandstone 14x10x8 ins.10 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.

40.50 Wash 8 lks.wide,3 ft.deep,drains SW. Ascend.

61.00 Top of ridge 250 ft.above wash,bears NE and SW. Descend.

80.06 The cor.of secs. 4,5,8,and 9.

Land broken.

Soil rocky;2d.rate.

Timber,cedars on 34.chs.

Sage brush;no grass.

Mountainous land on 80.06 chs.

Chains	
	Knowing that I will not intersect the cor.of secs.4,5,32, and 33, on N.bdy.of Tp., within limits,
	I run.
	N 0° 3'W. on a true line bet.secs. 4 and 5.
	Descend in cedars.
19.50	Bottom of hollow 75 ft.below cor.drains N 50° W. Ascend.
40.00	Set a sandstone 24x18x8 ins.18 ins.in the ground for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 9 ins.diam.bears S 71°00'E. 69 lks.dist.marked 1 S 4 B T.
	A cedar 8 ins.diam.bears N 78°00'W. 38 lks.dist.marked ¼ S B T.
42.50	E.slope of high knoll;descend. Leave cedars.
55.00	Bottom of hollow 50 ft.below slope of knoll drains SW. Ascend.
62.50	Top of ridge spur,75 ft.above hollow projects SW. Descend.
67.50	Bottom of hollow 50 ft.below spur,drains W. Ascend.
76.00	Top of ridge spur,50 ft.above hollow,projects W. Descend.
79.75	Intersect N bdy.of Tp.16.10 chs.E of cor.of secs. 4,5,32, and 33., heretofore described.
	At intersection,set a sandstone,20x6x3 ins.15 ins.in the ground,for closing cor.of secs.4,and 5 ,marked 4 grooves on E;2 grooves on W;00 on S faces,and raise a mound of stone 2 ft.base,1½ ft.high S of cor. Pits impracticable.
	I destroy all marks on cor.of secs.4,5,32,and 33,pertaining to secs.4 and 5.
	Land broken.
	Soil rocky;fd.rate.
	Timber,dense cedars on 42.50 chs.
	Mountainous land on 79.75 chs.

	From the cor.of secs. 5,6,31,and 32,on S bdy.of Tp,heretofore described

SUBDIVISION OF T 3 S.R 23 E.

Chains.	
	I run
	N.0°4'W.bet.secs.31 and 32.
	Descend in brush over mountainous land.
2.00	Bottom of hollow 50 ft.below cor.drains SW.
	Now over broken slope;ascend.
28.50	Top of ridge spur 75 ft.above hollow,projects SW. Descen..
31.50	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
37.00	Enter bench 50 ft.above hollow,bears NE and SW.
40.00	Set a sandstone 22x14x3 ins.16 ins.in the ground,for ¼ s.c. cor.marked ¼ on W face,and raise a mound of stone 2 ft.b se 1½ ft.high W of cor. Pits impracticable.
47.00	Leave bench;descend.
80.00	Set a sandstone 14x10x3 ins.10 ins.in the ground,for cor. of secs. 29,30,31 and 32,marked 1 notch on S;5 notches o E edges,and raise a mound of stone 2 ft.base,1½ ft.high of cor. Pits impracticable.
	Land mountainous.
	Soil clay and stony;2d.and 3d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.00 chs.

October,17th: I set off 9°07'S.on decl.arc;and,at 11h.46.. a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading 40°21',which agrees with othe data.

Thence I run

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

40.00	Set temp.¼ sec.cor.
80.70	Intersect N and S. line 14 lks.S of cor.of secs.28,29,32, and 33.
	Thence I run
	S.89°54'W.on a true line bet.secs. 29 and 32. Descend.
12.00	Bottom of hollow 30 ft.below cor. drains SW. Ascend.
16.00	Top of ridge spur,40 ft.above hollow projects SW. Descend.
26.50	Bottom of hollow 25 ft.below spur,drains S 15° W. Ascend.
35.00	Top of ridge spur,50 ft.above hollow projects S. Descend.

SUBDIVISION OF T 3 S.R 23 E.

Chains	
40.15	Set a sandstone 16x14x8 ins.11 ins.in the ground,for ¼ sec cor.marked ¼ on N face,and raise a mound of stone 2 ft.bas 1½ ft.high N of cor. Pits impracticable.
42.50	Road to Jensen bears N and S.in bottom of hollow 50 ft. below spur,hollow drains S. Ascend.
44.00	Enter bench 50 ft.above hollow,bears N and S. Now across same.
72.50	Leave bench;descend W slope.
80.30	The cor.of secs. 29,30,31,and 32. Land mountainous. Soil rocky;3d.rate. No timber. Sage brush and shadscale;no grass. Mountainous land on 80.30 chs.

	West on a random line bet.secs. 30 and 31.
40.00	Set temp.¼ sec.cor.
79.90	Intersect W bdy.of Tp.7 1ks.N of cor.of secs. 25,30,31,and 36, heretofore described. Thence I run N.89°57'E.on a true line bet.secs.30 and 31. Across bench. In brush.
23.50	Leave bench.
25.50	Road bears N and S.
26.50	Bottom of hollow 35 ft.deep,drains S.20° W.
39.90	Set a sandstone 14x10x3 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on N face,and raise a mound of stone 2 ft.bas 1½ ft.high N of cor. Pits impracticable.
50.00	Bottom of hollow 40 ft.below bench drains SW. Ascend.
57.00	Top of ridge spur 30 ft.above hollow,projects SW. Desc...
66.00	Bottom of hollow 25 ft.below spur,drains SW. Ascend.
79.90	The cor.of secs. 29,30,31,and 32. Land rolling. Soil gravelly clay;2d,rate. No timber. Sage brush and shadscale. No grass. Rolling land on 79.90 chs.

SUBDIVISION OF T.3 S. R.23 E.

Chains

N.0° 4'W.bet.secs. 29 and 30.

Along broken W slope,descend gradually.

75.00 Bottom of hollow 30 ft.below cor.drains SW. Ascend.

40.00 Set a sandstone 20x10x8 ins.15 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.

47.50 Top of ridge spur 30 ft.above hollow projects SW. Descend.

68.50 Bottom of hollow 30 ft.below spur,drains S 30° W. Ascend.

80.00 Set a sandstone 16x10x8 ins.11 ins.in the ground,for cor. of secs. 19,20,29,and 30,marked 2 notches on S;5 notches on E edges and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land broken.

Soil clay;2d.rate.

No timber.

Sage brush and shadscale.

Broken land on 80 chs.

N 89°54'E.on a random line bet.secs. 20 and 29.

40.00 Set temp.¼ sec.cor.

80.20 Intersect N and S line 10 lks.N of cor.of secs. 20,21,28 and 29.

Thence I run

N 89°58'W.on a true line bet.secs. 20 and 29. Over gentl. rolling land,in brush.

3.00 Wash 10 lks.wide,2 ft,deep,drains SW.

9.50 Wash 30 lks.wide,2 ft.deep,drains SW.

76.25 Road to Jensen bears N and S.

40.10 Set a limestone 12x10x8 ins. 8 ins.in the ground, for ¼ sec. cor.marked ¼ on N face;dig pits 18x18x12 ins. E and W of stone 3 ft.dist.and raise a mound of earth 3½ ft.base,1½ ft.high N of cor. Ascend.

53.75 Top of ridge spur 75 ft.above cor. projects S. Descend.

60.00 Bottom of hollow 50 ft.below spur drains SE. Ascend.

68.50 Top of ridge spur 50 ft.above hollow projects S.

Descend along N slope of spur.

SUBDIVISION OF T 3.S.,R 23 E.

Chains

00.00 The cor.of secs. 19,20,29,and 30.

Land level and broken.

Soil clay;2d.rate.

No timber.

Sage brush and mahogany.

S 89° 57'W.on a random line bet.secs. 19 and 30.

40.00 Set temp.¼ sec.cor.

79.70 Intersect W bdy.of Tp.5 lks.S of cor.of secs.19,24,25,and 30., heretofore described.

Thence I run

N 89°59'E.on a true line bet.secs. 19 and 30. Ascend.6

19.70 Top of ridge spur 50 ft.above cor. projects S 4 chs.

Descend.

35.00 Vernal--Rock Springs road bears NE and SW.

38.00 Bottom of hollow 30 ft.below spur,drains S. Ascend.

39.70 Set a sandstone 20x15x5 ins. 15 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 5 ft.base,1½ ft.high N of cor. Pits impracticable.

42.50 Top of ridge spur,30 ft.above hollow,projects S 15° W.

Descend.

50.00 Bottom of hollow 30 ft.below spur,drains SW. Ascend.

72.00 Ascend along N slope of ridge spur.

74.70 Top of spur,75 ft.above hollow,projects SW. Descend.

79.70 The cor.of secs. 19,20,29,and 30.

Land rolling.

Soil clay;2d.rate.

No timber.

Sage brush;some grass.

Mountainous land on 39.70 chs.

(October,17th.1906.

October,18th.1906: At 7h.45m,a.m.,l.m.t., I set off 40°32' S on lat.arc,9°24' on decl.arc,and determine a meridian with the solar at the cor.of secs. 19,20,29,and 30.

Thence I run

SUBDIVISION OF T.3 S.,R.23 E.

Chains

N 0° 4'W. bet.secs. 19 and 20. Ascend in brush.

1.75 Top of ridge spur,25 ft.above cor. projects W.

Descend.

13.50 Bottom of hollow 20 ft.below cor. drains NW. Ascend.

18.50 Top of ridge spur,20 ft.above hollow projects NW.

Descend.

33.25 Bottom of hollow 15 ft.below spur,drains SW.

40.00 Set a limestone 16x10x8 ins. 11 ins.in the ground,for ¼ sec.cor. marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

68.00 Top of ridge spur,25 ft.above hollow projects SW. Descend.

78.50 Bottom of hollow 15 ft.below spur,drains SW. Ascend.

80.00 Set a sandstone 18x10x7 ins. 12 ins.in the ground, for cor. of secs.17,18,19,and 20,marked 3 notches on S;5 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land rolling.

Soil clay;2d.rate.

No timber.

Sage brush and shadscale.

S 89°58'E.on a random line bet.secs. 17 and 20.

40.00 Set temp.¼ sec.cor.

80.02 Intersect N and S line 3 lks.N of cor.of secs. 16,17,20, and 21.

Thence I run

N 89° 57'W. on a true line bet.secs. 17 and 20.

Descend.through brush.

5.00 Wash 3 lks.wide,1 ft.deep,drains S 20° W.

21.00 Road to Jensen bears NE and SW.

33.50 Wash 10 lks.wide,5 ft.deep,drains SW.

40.01 Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

Ascend.

69.00 Top of ridge spur 25 ft.above sec.cor.projects SW.

Chains	
	Descend.
78.50	Bottom of hollow 15 ft.below spur,drains SW. Ascend.
80.02	The cor.of secs. 17,18,19,and 20.
	Land rolling.
	Soil,clay;2d.rate.
	No timber.
	Sage brush and salt sage.

	S 39°59'W.on a random line bet.secs. 18 and 19.
40.00	Set temp.¼ sec.cor.
79.73	Intersect W bdy.of Tp.at cor.of secs. 17,18,19,and 24. heretofore described. Thence I run
	Over bench ,through brush.
	N.39°59'E.on a true line bet.secs. 18 and 19.
39.73	Set a sandstone 18x12x10 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
44.00	Leave bench;descend.
54.00	Bottom of hollow 25 ft.below bench drains SW. Ascend.
64.00	Top of ridge spur,30 ft.above hollow projects SW. Descend
72.00	Vernal-Rock Springs road bears NE and SW.
75.25	Bottom of hollow 25 ft.below spur,drains SW. Ascend.
79.73	The cor.of secs. 17,18,19, and 20.
	Land rolling.
	Soil clay;2d.rate.
	No timber.
	Sage brush and shadscale.

	N 0° 4'W.bet.secs. 17 and 18.
	Ascend.
11.00	Vernal-Rock Springs road bears NE and SW.
15.50	Top of ridge spur,25 ft.above cor.projects SW. Descend.
28.50	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
40.00	Set a sandstone 14x14x5 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2

Chains

ft.base,1½ ft.high W of cor. Pits impracticable.

48.00 Top of ridge spur 30 ft.above hollow projects SW. Desc nd.

65.00 Bottom of hollow 30 ft.below spur,drains SW. Ascend.

Enter scattering cedars.

80.00 Set a limestone 22x16x8 ins.16 ins.in the ground,for co. of secs. 7,8,17,and 18,marked 4 notches on S;5 notches n E edges,and raise a mound of stone 3 ft.base,1½ ft.high W of cor. from which

A cedar 4 ins.diam.bears N 17°15'E. 133 lks.dist.marked T 3 S.R 23 E.S 8 B T.

A cedar 4 ins.diam.bears S 51°15'W.172 lks.dist.marked T 3 S.R 23 E.S 18 B T.

A cedar 4 ins.diam.bears N 84° 30'W. 66 lks.dist.marked T 3 S.R 23 E.S 7 B T.

No other trees within limits.

Land broken.

Soil clay and rocky;2d.and 3d.rate.

Timber,cedars on N 15.chs.

Sage brush;some grass.

Broken land on 80 chs.

October,18th.1906: I set off 9°28'S on the decl.arc,and at 11h.45m.,a.m.,l.m.t., observe the sun on the meridian, and obtain on the lat.arc,the reading 40°74',which agree with other data.

Thence I run

S 89°57'E.on a random line bet.secs. 8 and 17.

40.00 Set temp.¼ sec.cor.

79.95 Intersect N and S line 18 lks.S of cor. of secs. 8,9,16, and 17.

Thence I run

S 89°53'W.on a true line bet.secs. 8 and 17.

Descend,in scattering cedars.

15.25 Bottom of hollow 75 ft.below cor.,drains S. Ascend.

39.97½ Set a sandstone 16x10x4 ins.11 ins.in the ground,for ¼

SUBDIVISION OF T 3.S.,R 23 E.

Chains	
	sec.cor.marked $\frac{1}{4}$ on N face, from which
	A cedar 8 ins.diam.bears S 6° 30'E. 89 lks.dist.marked $\frac{1}{4}$ S 17 B T.
	A cross (x) and B O chiseled on a sandstone in place 3x2x1 ft.above ground,bears N.79°00'W.38 lks.dist.also marked $\frac{1}{4}$ S 8 .
50.50	Top of ridge spur 50 ft.above hollow projects S 10° W.
	Descend.
51.50	Leave cedars.
62.37	Bottom of hollow 150 ft.below spur,drains S. Ascend.
69.38	Top of ridge spur,100 ft.above hollow projects SW.
	Descend.
76.96	Bottom of hollow 150 ft.below spur,drains S 10° W.then SW.
	Ascend.
79.95	The cor.of secs. 7,8,17,and 18.
	Land broken.
	Soil clay and rocky;2d.and 3d.rate.
	Timber,cedars on 51.50 chs.
	Sage brush;some grass.
	Mountainous land on 79.95 chs.

	S 89° 53'W.on a random line bet.secs. 7 and 18.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.76	Intersect W bdy.of Tp.9 lks.N of cor.of secs.7,18,17,and 18 heretofore described. Thence I run
	N.89°55'E.on a true line bet.secs. 7 and 18.
	Over bench.
11.00	Leave bench;descend in cedars.
16.70	Bottom of hollow 100 ft.below bench,drains S. Ascend.
26.50	Top of ridge spur 100 ft.above hollow projects S.
	Descend.
30.25	Bottom of hollow 50 ft.below spur,drains SW. Ascend.
35.00	Leave cedars .
39.50	Re-enter cedars.
39.76	Set a sandstone 12x10x8 ins.8 ins.in the ground,for $\frac{1}{4}$ sec.

Chains	
	cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears S 7°00'E. 36 lks.dist.marked ¼ S 18 B T.
	A cedar 7 ins.diam.bears N 27°00'E. 44 lks.dist.marked ¼ S 7 B T.
46.75	Top of ridge spur,150 ft.above hollow projects S 30° W.
	Descend.
53.30	Bottom of hollow 75 ft.below spur,drains S 30° W.
	Ascend.
58.00	Top of ridge spur,75 ft.above hollow projects S 30° W.
	Descend.
60.50	Bottom of hollow 150 ft.below spur,drains S 30° W.
	Ascend.
67.75	Top of ridge spur,150 ft.above hollow projects S 20° W.
	Descend.
73.20	Bottom of hollow 150 ft.below spur,drains S 20° W.
	Ascend.
76.10	Top of ridge spur,100 ft.above hollow,projects S. Descend.
79.76	The cor.of secs. 7,8,17,and 18.
	Land broken.
	Soil rocky;2d.rate.
	Timber,dense cedars on 64.26 chs.
	Sage brush;some grass.
	Mountainous land on 79.76 chs.

	N.0° 4'W. bet.secs. 7 and 8.
	Ascend along E slope of spur,in cedars.
20.00	Top of ridge spur,100 ft.above cor.projects S 10° W.
	Ascend.
27.50	Top of ridge 75 ft.above spur,bears NW and SW. Descend.
40.00	Set a sandstone 14x9x6 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, from which
	A cedar 10 ins.diam.bears S 83°00'E.23 lks.dist.marked ¼ S 8 B T.
	A cedar 5 ins.diam.bears S 86°30'W. 37 lks.dist.marked

SUBDIVISION OF T.3 S. R.23 E.

Chains	
	¼ S 7 B T.
47.50	Bottom of hollow 70 ft.below ridge,drains SW. Ascend.
53.00	Top of ridge spur,30 ft.above hollow,projects SW. Descend.
	Leave cedars.
60.00	Bottom of hollow 150 ft.below spur,drains SW. Ascend.
63.00	Enter sage bench bears NE and SW;now across same.
80.00	Set a sandstone 20x12x3 ins. 15 ins.in the ground,for cor.
	of secs. 5,6,7, and 3,marked 5 notches on S;5 notches on E
	edges and raise a mound of stone 2 ft.base,1½ ft.high W of
	cor. from which
	A cedar 7 ins.diam.bears S 34°30'E. 44 lks.dist.marked
	T 3 S.R 23 E.S 8 B T.
	No other trees within limits.
	Land mountainous.
	Soil clay and rocky;2d.and 3d.rate.
	Timber,cedars on S 53.chs.
	Sage brush and some grass.
	Mountainous land on 80.chs.

	N 89° 58'E. on a random line bet.secs. 5 and 8.
40.00	Set temp.¼ sec.cor.
79.85	Intersect N and S line 16 lks.S of cor.of secs. 4,5,8,and
	Thence I run
	S 89°51'W. on a true line bet.secs. 5 and 8.
	Descend,in cedars.
4.00	Bottom of hollow 50 ft.below cor. drains N. Ascend.
12.50	N point of ridge spur 50 ft.above hollow. descend.
13.00	Leave cedars.
21.50	Bottom of hollow 50 ft.below point of spur,drains NE.
	Ascend.
30.00	Re-enter cedars.
35.00	Top of ridge spur,150 ft.above hollow projects NE. Descend
36.00	Leave cedars,descend along N.slope of spur.
79.92½	Set a sandstone 22x14x3 ins. 16 ins.in the ground,for ¼

Chains	
	sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
49.00	Bottom of hollow 40 ft.below spur,drains NW. Ascend.
54.00	Top of ridge spur,30 ft.above hollow,projects NW. Descend.
59.50	Bottom of same hollow drains SW. Ascend.
65.00	Enter bench 75 ft.above hollow bears NE and SW.
79.85	The cor.of secs. 5,6,7,and 8.
	Land broken.
	Soil rocky;3d.rate.
	Timber,cedars on 34.chs.
	Sage brush;some grass.
	Mountainous land on 79.85 chs.

	Knowing that I will not intersect the cor.of secs. 5,6,31, and 32 on N.bdy.of Tp., within limits,
	I run
	N 0° 4'W. on a true line bet.secs. 5 and 6.
13.50	Enter cedars;ascend.across bench.
20.00	Top of detached ridge 75 ft.above cor.bears NE and SW.
	Descend.
26.00	Leave cedars;enter sage brush flat.
30.00	Leave flat;re-enter cedars.
36.50	Old mail road,bears NE and SW in hollow 30 ft.below flat.
	hollow drains S 60° W. Ascend.
39.00	Top of detached ridge 50 ft.above hollow bears E and W.
	Descend.
40.00	Set a sandstone 16x14x3 ins. 11 ins.in the ground,for ¼
	sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	A few cedars within limits too scrubby to mark.
46.50	Leave cedars.
52.00	Bottom of hollow 25 ft.below ¼ sec.cor. drains S 75° W.
54.00	Top of detached ridge 25 ft.above hollow bears E and W.
	Descend.
64.00	Bottom of hollow 30 ft.below ridge drains S 75° W.

SUBDIVISION OF T 7 S.,R.23 E.

Chains	
	Ascend.
71.00	Re-enter cedars. Top of detached ridge 30 ft.above hollo
	bears E and W.
77.50	Bottom of hollow 25 ft.below ridge drains S 75° W. Ascend
79.74	Intersect N bdy.of Tp.16.07 chs. E of cor.of secs.5,6,31,
	and 32,heretofore described.
	At intersection,set a sandstone,12x10x8 ins. 8 ins.in the
	ground,for closing cor.of secs.5 and 6,marked 5 grooves on
	1 groove on W;06 on S face, from which
	A cedar 7 ins.diam.bears S 56°30'W. 59 lks.dist.marked
	T 3 S.R 23 E.S 6 B T.
	A cedar 8 ins.diam.bears S 70°00' E. 90 lks.dist.marked
	T 3 S.R 23 E.S 5 B T.
	Land broken.
	Soil rocky;3d.rate.
	Timber,cedars on 77.74 chs.
	Sage brush;some grass.
	Mountainous land on 79.74 chs.

	S 39°55'W.on a random line bet.secs. 6 and 7.
40.00	Set temp.¼ sec.cor.
79.30	Intersect W bdy.of Tp.2 lks.S of cor.of secs. 1,6,7,and 12
	Thence I run
	N 39°55'E. on a true line bet.secs. 6 and 7.
	Across flat.
29.50	Leave flat;ascend precipitous W slope.
30.50	Enter bench 150 ft.above flat,bears NE and SW;enter cedars.
30.80	Set a limestone 16x14x8 ins. 11 ins.in the ground,for ¼
	sec.cor.marked ¼ on N face, from which
	A pine 4 ins.diam.bears S 25°00'W. 17 lks.dist.marked
	¼ S 7 B T.
	A cedar 5 ins.diam.bears N 60°30'E. 43 lks.dist.marked
	¼ S 6 B T.
45.00	Old mail road bears NE and SW.
55.00	Leave cedars;enter sage flat.

SUBDIVISION OF T.7 S.,R.27 E.

Chains

79.80 The cor.of secs. 5,6,7,and 8.
3.00
76.80 Land rolling and broken.

Soil clay and rocky;2d.and 7d.rate.

Timber,cedars on 22.50 chs.

Sage brush and greasewood on 29.50 chs.

Mountainous land on 7.00 chs.

(October,10th.1906.

GENERAL DESCRIPTION.

This township is for the most part made up of ridge spurs and hollows intervening with a general southwest and northeasterly trend,with the drainage of the township,except a portion of the southeastern part,which drains southeastward toward Green river at Rainbow Park,to the southwestward.

The soil of this township is principally gravelly clay, the northern portion of which is covered with cedars,the southern portion with scrubby sage brush ,shadscale and salt sage.

This township is poorly watered,the only stream within its borders is Brush creek,which flows for a few chains through the extreme southwest corner;Blair Spring in SE¼ Sec.1,furnishes a considerable supply of excellent water for stock grazing in its immediate vicinity;the drainage from Bowery Spring located just across the north boundary of Sec.3,also supplies a considerable volume of good water for stock.

There is practically no land in this township fit for irrigation,owing to the rolling and broken character of the surface,and the elevation of the surface above Brush creek the only possible source of supply;so that this township is valuable only for winter range for sheep;for which purpose it is utilized.

There are no settlers in this township.

There are no indications of gold,silver,copper,lead.

asphaltum or salines in this township.

There are some indications of coal in Secs.3 and 4;but the vein is too small and the quality of the coal too indifferent to be of any value commercially;I do not therefore designate any part of this township as coal land.

Edgar F. Hannston
U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of T. 3 S., R. 23 E., S. L. B. & M., Utah, showing the respective capacities in which they acted:

Charles L. Bailey, C L B, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of T. 3 S., R. 23 E., [illegible] of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 9th day of August, 1907, 189

SEAL

Ward E. Park Jr.

Notary Public.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of 19th. day of December, 1899, 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 Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the subdivision lines of T. 3 S R. 23 E.,

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

Edgar F. Harmston
United States Deputy Surve

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th. day of August, 1907.

Jas C Hackin
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 1908

The foregoing field notes of the survey of the subdivision lines of T. 3 S. R 23 E., of the Salt Lake Base and Meridian, Utah,

executed by Edgar F. Harmston under his contract No. 235, dated Dec. 19, 1906, 189 , having b critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Hull
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 office

United States Surveyor Gene

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BOOK A-339

FIELD NOTES

OF THE Re SURVEY OF THE

Ashley Guide Meridian

on

West Boundary T. 2 S. R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyors

Under this Contract No. 235, dated December 19th, 1899

Survey commenced July 10th, 1900

Survey completed July 13th, 1900

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Geogh 5-69-05 ✓

Low 8.00 ✓

Closing 18.20 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox	Chainman
John Holmes	"
Isaac M. Cobb	"
John A Lesonbee	"
Josiah Simms	Moundman
Albert Kone	Axeman
Craig Harmston	Flagman

In preliminary affidavit see book D. Tp 4 S. R 22 E.

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BOOK A-339

INDEX DIAGRAM.

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

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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

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

.....

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

.....

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

.....

.....*Ax*

.....*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, i
survey of .....

.....*Flag*

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

SEAL

.....

.....

Resurvey of the Ashley Guide Meridian on W. Bdy of T. 2 S. R. 23 E. S.L.M.

Survey commenced July 10th 1900.

Note: In my field notes of the survey of the N. Bdy. of T. 4 S. R. 22 E. and the re-survey of the Ashley Guide Meridian on W. Bdy T. 3 S. R. 23 E. Salt Lake Meridian – both executed under this contract – the necessity for re-surveying the Ashley Guide Meridian through Tps. 3 & 4 S. is explained at length. The cor. to Tps. 2 & 3 S. Rgs. 22 & 23 E. was re-established by me at a point probably about 12.00 chs. East of the point where the original cor. to these Tps – not found – was established.

The unsurveyed portion of T. 2 S. R. 23 to be surveyed under this contract embraces the four westerly tiers of sections and no subdivision lines close on the Ashley Guide Meridian in this Tp.

Conforming to the instructions in "the Manual" I therefore proceed to re-establish the said Ashley Guide Meridian in its proper position as the W. Bdy of T. 2 S. R. 23 E. Salt Lake Meridian

July 10th 1900 – Beginning at cor. to Tps. 2 & 3 S. Rgs. 22 & 23 E. re-established in this survey in approximate Lat. 40° 35' 38" N. – Long. 109° 24' W. I examine the adjustments of the transit carefully and then test the Solar apparatus by comparing the results of observations on the sun made during A.M. and P.M. hours with a true Meridian determined by observations on Polaris proceeding as follows:

At 4 h. p.m. l.m.t I set off 40° 36." N. on the lat. arc. 22° 14' N. on the decl. arc; determine with the Solar a true Meridian and mark a point thereof by pencil mark No 1 on a stake set firmly 5 chs N. of cor. –

At 9 h 18 m. l.m.t. I observe Polaris in accordance with instructions in the Manual and mark the direction thus determined by a tack driven in a wooden plug firmly set in the ground 5 chs.

Re-survey Ashley Guide Meridian on W. Bdy T. 2 S. R. 23 E.

N. of the Cor.

Astron. L.m.t of obs. July 10th 1900 =	9h. 18m.
U.C. Polaris July 1st = 18h. 40.5m	
Red. to July 10th = 0 " 35.3 "	
U.C. Polaris July 10th 18h. 05.2m =	18h. 05.2m
	15h. 12.8m
Hour angle of Polaris at obs. =	
Time argument =	8h. 43.3m
Azimuth of Polaris at obs.	1°12' East.

July 10th 1900

July 11th 1900 - At 7h. a.m. l.m.t I lay off the Azimuth of Polaris 1°12' to the west and mark the Meridian thus determined by making pencil mark No 2 on the stake set yesterday afternoon on which the true Meridian falls 0.3 ins. west of the mark determined by the Solar

At 7h 30m. a.m. l.m.t. I set off 40° 35' N. on the lat. arc. 22° 09' N. on the decl. arc and mark a point in the true Meridian determined by the Solar on the stake already set 5 chs. N. of my station. This mark falls 0.25 ins. E. of the true Meridian established by the Polaris observation.

The solar apparatus by P.M and A.M. observations defines positions for true Meridian respectively 0'16" and 0'13" East of the true Meridian established by the Polaris observation therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the true Meridian at 7h. 30m. a.m. is N. 15° 59' W. which reduced by the table on Page 100 of the Manual gives the mean magnetic declination 15°53' East

Thence I run

North on a re-survey line on the West Bdy of sec. 31.

Note: This line is the Boundary line between the Public lands on the East and the Uintah Forest Reserve

Resurvey Ashley Guide Meridian in W. Bdy T. 2 S. R. 23 E.

chs. on the West I therefore mark all cor. stones on it "U. F. R." on the West for "Uintah Forest Reserve" in conformity with Special Instructions

11.50 Leave dense cedars.

14.00. Enter hollow 50 ft. deep drains S.W.

18.00 Wash 10 lks. wide 3 ft. deep drains S.W.

19.00 Leave hollow - Ascend

21.50 Enter bench bears NE. & S.W.

32.50 Leave bench

34.00 Enter Little Brush Creek flat. 60 ft. lower than bench drains W.

Difference between measurements of 40.00 chs. by two sets of chainmen 6 lks. - Position of middle point

By 1st set 40.03 chs.

By 2nd set 39.97 chs. the mean of which is

40.00 Find no trace of the original 1/4 sec. cor. - Set a sandstone 12x12x8 ins. 8 ins. in the ground for 1/4 sec cor. marked 1/4 and U. F. R. on W. face and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

42.00 Leave flat, ascend rocky S. slope -

50.00 Re-enter bench and dense cedars

68.50 Hollow 25 ft deep drains S.W.

Difference bet. measurements of 80.00 chs by two sets of chainmen 22 lks. - Position of middle point

By 1st set = 80.11 chs.

By 2nd set = 79.89 chs. the mean of which is

80.00 Find no trace of the original cor. to secs. 25. 30. 31 & 36.

Set a sandstone 20x12x4 ins. 15 ins. in the ground for cor. to secs. 30 & 31 marked 5 notches on N. 1 on S. edges and U. F. R. on W. face from which

12/8

A cedar 10 ins. diam bears N. 64° E. 114 lks. dist. marked T. 2 S. R. 23 E. S. 30 B.T.

A cedar 8 ins. diam. bears S. 9° E. 50 lks. dist. marked T. 2 S. R. 23 E. S. 31 B.T.

Land broken bench and flat

Soil second rate, rocky.

Dense cedars on 41.50 chs

Mountainous cor. cedars on 72.00 chs

Resurvey of Ashley Guide Meridian on W. Bdy of T. 2 S. R. 23 E.

chs.	
	North on a resurvey line on W. Bdy of sec. 30
22.00	Heavy bench
26.50	Hollow 100 ft. deep drains S.W.
32.00	Ridge spur 100 ft. high bears S.E.
	Difference bet. measurement of 40.00 chs. by two sets of chainmen 14 lks. – Position of middle point
	By 1st set = 40.07 chs.
	By 2nd set = 39.93 chs the mean of which is
40.00	Find no trace of the original 1/4 sec. cor. – Set a sandstone 14 x 10 x 4 ins., 10 ins. in the ground for 1/4 sec. cor. marked 1/4 and U.F.R. on W. face and raised a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
	A cedar 18 ins diam bears N. 66° E. 30 lks dist marked 1/4 S. 30 B.T.
42.00	Hollow 50 ft. deep drains S.E.
46.50	Ridge spur 40 ft. high bears S.E.
50.50	Hollow 50 ft. deep drains S.E.
57.50	Ridge spur 25 ft. high bears S.E.
70.00	Entire high bench bears N.E. & S.W.
	Difference bet. measurements of 80.00 chs. by two sets of chainmen 20 lks. – Position of middle point
	By 1st set 80.10 chs.
	By 2nd set 79.90 chs. the mean of which is
80.00	Find no trace of the original cor to secs 19. 24. 25 & 30 Set a sandstone 15 x 12 x 3 ins. 10 ins. in the ground for cor. to secs. 19 & 30 marked 4 notches on N. and 2 on S. edges and U.F.R. on W. face
	from which
	A cedar 10 ins. diam bears S. 55° E. 12 lks. dist. marked T. 2 S. R. 23 E. S. 30 B.T.
	A cedar 12 ins. diam bears N. 61° E. 17 lks. dist marked T. 2 S. R. 23 E. S. 19 B.T.
	Land broken ridges and bench
	Soil 2nd rate, gravelly.
	Cedars on 80.00 chs.
	Mountainous on 80.00 chs.

Re-survey of the Ashley Guide Meridian on W. Bdy of T. 2 S. R. 23 E.

chs	
	July 11th 1900 – At this cor. I set off 22° 7' N. on the decl. arc and at 12 h. m. – 6. on Z. observe the sun on the Meridian the resulting lat. is 40° 37' N

North on a re-survey line
on the W. Bdy of sec. 19

1.50	Leave high bench – Descend along NW. slope
	Difference bet. measurements of 41.00 chs by two sets of chainmen 6 lks. – Position of middle point
	By 1st set = 40.03 chs
	By 2nd set = 39.97 chs. the mean of which is
40.00	Find no trace of the original 1/4 sec. cor. – Set a sand stone 24 x 13 x 12 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 and U.F.R. on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
	Pits impracticable
	A cedar 12 ins. diam. bears N. 82 E. 74 lks. dist. marked 1/4 S. 19 B.T.
41.50	Hollow 20 ft. deep drains S.W.
43.50	Ridge spur 25 ft. high bears S.W.
52.50	Gulch 30 ft. deep drains S.W.
57.50	Ridge spur 30 ft. high bears S.W.
79.00	Hollow 25 ft. deep drains S.W.
	Difference bet. measurement of 80.00 chs by two sets of chainmen 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	Find no trace of original cor. to secs. 13. 18. 19 & 24. Set a limestone 24 x 18 x 4 ins. 18 ins. in the ground for cor. to secs. 18 & 19 marked 3 notches on N. & S. edges and U.F.R. on W. face
	from which
	A cedar 10 ins. diam. bears S. 88 E. 45 lks. dist. marked T. 2 S. R. 23 E. S. 19 B.T.
	A cedar 6 ins. diam. bears N. 12 E. 60 lks. dist. marked T. 2 S. R. 23 E. S. 18 B.T.
	Land broken W. slope

chs.

Soil 2nd rate, ~~gravelly~~
Cedars on 80.00 chs.
Mountainous on 80.00 chs

North on a re-survey line
on W. Bdy of sec. 18

5.00 Ravine 10 ft. deep drains S.E. Ascend broken S. slope of Diamond Mountain.

36.00 Leave Cedars

Difference bet. measurement of 40.00 chs by two sets of chainmen 10 lks. – Position of middle point
By 1st set = 40.05 chs.
By 2nd set = 39.95 chs. the mean of which is

40.00 Find no trace of the original 1/4 sec. cor. – Set a limestone 24 x 20 x 4 ins. 18 ins. in the ground for 1/4 sec. cor marked 1/4 and U.F.R. on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable

Difference bet. measurement of 80.00 chs by two sets of chainmen 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 Find no trace of the original cor. to secs. 7, 12, 13 & 18 – Set a sandstone 20 x 14 x 5 ins. 15 ins. in the ground for cor. to secs. 7 & 18 marked 2 notches on N. and 4 on S. edges and U.F.R. on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land broken S. slope
Soil 3rd rate, rocky
Cedars on S. 80.00 chs.
Mountainous on 80.00 chs

July 12th 1900 – At 7 h. a.m. L.M.T. I set off 40° 39' N. on the lat. arc, 22° 01' N. on the decl. arc

chs

and determine with the Solar a true Meridian at the cor. to secs. 7 & 18 on W. Bdy of Tp.
Thence I run
North on a re-survey line
on W. Bdy of sec 7

Ascend precipitous S. slope
24.50 Enter Diamond Mountain Plateau 500 ft. higher than the foothills bears E. & W.
29.50 Road bears N.E. & S.W.
Difference bet. measurement of 40.00 chs by two sets of chainmen 12 lks. — Position of middle point
By 1st set = 40.06 chs.
By 2nd set = 39.94 chs. the mean of which is
40.00 Find no trace of the original 1/4 sec. cor. — Set a sandstone 20 x 12 x 4 ins. 15 ins. in the ground for 1/4 sec cor. marked 1/4 and U.T.R. on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
40.50 Descend
52.00 Hollow 75 ft. deep drains S.W.
65.00 Ridge spur 75 ft. high bears S.W.
68.00 Hollow 30 ft. deep drains S.W.
75.00 Ridge spur 25 ft. high bears S.W.
Difference bet. measurements of 80.00 chs. by two sets of chainmen 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 Find no trace of the original cor. to secs. 1. 6. 7 & 12
Set a sandstone 12 x 10 x 8 ins. 8 ins. in the ground for cor. to secs. 6 & 7 marked 1 notch on N. and 5 on S. edges and U.T.R. on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
Land high broken plateau
Soil 2nd rate, gravelly
No timber
Mountainous on 80.00 chs

chs.

North on a re-survey line
on W. Bdy of Sec. 6

2.00 Enter E. side of aspen grove
8.00 Leave aspen
23.00 Enter another dense aspen grove
25.00 Hollow 25 ft. deep drains S.W.
30.00 Leave aspen
Difference bet. measurements of 40.00 chs by two sets of chainmen 8 lks. — Position of middle point
By 1st set = 40.04 chs.
By 2nd set = 39.96 chs. the mean of which is
40.00 Find no trace of the original 1/4 sec cor. — Set a Sandstone 24 x 20 x 4 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 and U.F.R on W. face and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. — Pits impracticable
41.00 Hollow 30 ft. deep drains S.E.
Difference bet. measurement of 77.05 chs by two sets of chainmen 12 lks. — Position of middle point
By 1st set = 77.11 chs
By 2nd set = 76.99 chs. the mean of which is
< 77.05 Intersect S. Bdy of Tp. 1 S. R. 23 E. N. 89° 49' E. 18.20 chs. from the established cor. to Tps. 1 & 2 S. Rgs. 22 & 23 E. on the Ashley Guide Meridian which is a charred aspen post set marked and witnessed as described by the Surveyor General — I obliterate from it all marks pertaining to T. 2 S. and at point of intersection set a sandstone 14 x 12 x 8 ins. 10 ins. in the ground for Northwest cor. to T. 2 S. R. 23 E. marked 2 S. 23 E. on S.E. face, with 6 notches on S. & E. edges and U.F.R. on S.W. face dug pits 36 x 36 x 12 ins. on each line S. & E. of stone 8 ft. dist. and raised a mound of earth 5 ft. base 2½ ft. high S.E. of cor.
Land high broken plateau
Soil 2nd rate, gravelly.
Dense aspen undergrowth on 13.00 chs.
Mountainous on 77.05 chs

Resurvey of the Ashley Guide Meridian on W. Bdy T. 2 S. R. 23 E.

July 12th 1900

Note: I am convinced that there must be some of the corners on the original line of the Ashley Guide Meridian still in existence though so far I have failed to find them in T. 2 S. Therefore on July 13th 1900 I begin at the established S.W. cor to Tp. 1 S. R. 23 E. and computing the probable course from my falling to be S. 0° 45' E. re-trace the original line of the Ashley Guide Meridian in T. 2 S. for the purpose of finding and destroying the corners. – The following corners I found and destroy:
The original 1/4 sec. cor. bet. secs. 7 & 12
The original cor. to secs 7. 12. 13 & 18
The original 1/4 sec. cor. bet secs. 13 & 18
The original 1/4 sec. cor. bet. secs. 19 & 24
The original cor. to secs. 19. 24. 25 & 30
The original 1/4 sec. cor. bet secs. 25 & 30
The original cor. to secs. 25. 30. 31 & 36
They were all found on or near the line run – the distances in most cases were short.

July 13th 1900

For general description of the re-established Ashley Guide Meridian on W. Bdy of T. 2 S. R. 23 E. see end of field notes of additional Subdivision lines of that Tp.

Edgar F. Harrington
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

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

.....

ollowing 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 .....

..... 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

General for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Edgar F. Harmston, United States Deputy Surveyor, [illegible] received from [illegible] [illegible] for the District of Utah, bearing date of [illegible] December, 1899, I have well, faithfully, and truly, in my [illegible] in conformity with the instructions furnished by the United States Surveyor [illegible] the District of Utah, the Manual of Surveying Instructions, and the laws of [illegible] all those parts or portions of the Cashlen Lewis Meridian [illegible] Mayor [illegible] East Trough Township [illegible]

[illegible] of the [illegible] in the State of Utah, which are represented in [illegible] having been surveyed by me, and under my direction; and I do further solemn [illegible] the corners of said survey have been established and perpetuated in strict accordance with [illegible] Manual of Surveying Instructions, and the special written instructions of the United States Surveyor [illegible] the District of Utah and in the specific manner described in the field notes, and the [illegible] are the original field notes of such survey; and should any fraud be detected, I will suffer [illegible] of perjury under the provisions of an Act of Congress approved August 8, 1846.

Edgar F. Harmston

United States Deputy Surveyor

[illegible] by said Edgar F. Harmston, and sworn to before me [illegible] day of [illegible], 189[illegible]

[illegible]
County Clerk
Uintah Co. Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

[illegible], 189[illegible]

The foregoing field notes of the survey of [illegible]

[illegible] dated [illegible], 189[illegible], having been [illegible] correction and explanations made, the said field notes, and the [illegible] approved.

United States Surveyor General

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

United States Surveyor General

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Adolphe Jensen and Edgar F. Harmston, United States Deputy Surveyors to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Ashley Guide Meridian Utt Rgs 22 & 23 E. through Tps. 2, 3 & 4 S. S.L.B. & M. showing the respective capacities in which they acted:

Charley Fox - Isaac M. Cobb, *Chainman.*
John Holmes - John A Lisonbee, *Chainman.*
Josiah Simms, *Moundman.*
, *Moundman.*
Albert Kane, *Axman.*
, *Axman.*
Craig Harmston, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Adolphe Jensen and Edgar F. Harmston, United States Deputy Surveyors, in surveying all those parts or portions of the Ashley Guide Meridian between Rgs. 22 & 23 East through Tps 2 - 3 & 4 South

of the Salt Lake meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by ~~him~~ them and under ~~his~~ their 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

Charley Fox Isaac M. Cobb, *Chainman.*
John Holmes John A Lisonbee, *Chainman.*
Josiah Simms, *Moundman.*
, *Moundman.*
Albert Kane, *Axman.*
, *Axman.*
Craig Harmston, *Flagman.*

Subscribed and sworn to before me this 10th day of August, 1900

SEAL

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 29, 1900

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Adolphe Jessen, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for The District of Utah, bearing date of 19th day of December, 1899, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Su General for The District of Utah, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of the Ashley Gunds Meridian between Ranges 22 & 23 East through Townships 2, 3 & 4 South of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solem swear that all the corners of said survey have been established and perpetuated in strict accordance the Manual of Surveying Instructions, and the special written instructions of the United States Surv General for The District of Utah 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 s the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Adolphe Jessen
United States Deputy Su

Subscribed by said Adolphe Jessen, and sworn to before me this 31st day of May 1901, ~~189~~

Edward H Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 25, 1902 18

The foregoing field notes of the survey of the Ashley Gunds Meridian a West Boundary of Township 2 South Range 23 East of the Salt Lake Base & Meridian Utah

executed by Adolphe Jessen and Edgar F. Harmston under his contract No. 225, dated December 19, 1899, having critically examined, and the necessary corrections and explanations made, the said field notes, an surveys they describe, are hereby approved.

Edward H Anderson
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 offi

United States Surveyor Gen

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4—679.

BOOK A-339

FIELD NOTES

OF THE retracement and re- SURVEY OF ~~THE~~

A part of the Tenth Boundary

of

T. 1 S. – R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen & Edgar F. Harmston, United States Deputy Surveyor,

Under Contract No. 235, dated December 19th, 1899

Survey commenced July 14th, 1900

Survey completed July 15th, 1900

6—151

Retracement [illegible] 2.78.76 ✓

Resurvey [illegible] 1-00-07 ✓

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox Chainman

John Holmes "

Josiah Sims Monumentman

Albert Kone Axeman

Craig Harmston Flagman

For preliminary official sets see book B Tp 3 S. R 21 E

Volume
#
R0339

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BOOK A-339

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

.....

..... , *Axmo*

..... , *Axma*

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

SEAL

.....

.....

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

..... , *Flagma*

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

SEAL

.....

.....

Re-tracement and resurvey of a part of the S. Bdy of T. 1 S. R. 23 E.

Survey commenced July 14th 1900.

Note: Having found that the S. Bdy of Sec. 31 in T. 1 S. R. 23 E. is – like most of the old lines upon which this survey closes – deficient in alinement. I deem it necessary to retrace the four westerly miles of the S. Bdy. of T. 1 S. R. 23 E. prior to subdividing the four westerly tiers of sections in T. 2 S. R. 23 E. so that I will be able to close intelligently on the N. Bdy of that Tp.

July 14th 1900 – At the established S. W. cor. to T. 1 S. R. 23 E. I set off 21° 41' N. on the decl. arc and at 12 h. m. l. m. t observe the sun on the Meridian the resulting lat. is 40° 41' N.

Thence I run

N. 89° 57' E. on a blank line on S. Bdy of sec. 31

At 39.60 chs. the original 1/4 sec. cor. bears N. 9 lks dist

At 78.72 chs the original cor. to secs 31 & 32 bears N. 18 lks. dist

Thence I run

N. 89° 57' E. on a blank line on S. Bdy. of sec. 32

At 38.96 chs the original 1/4 sec cor. bears N. 27 lks. dist

At 78.96 chs. the original cor. to secs. 32 & 33 bears N. 54 lks dist.

Thence I run

N. 89° 57' E. on a blank line on S. Bdy of sec. 33

At 40.00 chs. found no trace of the original 1/4 sec. cor.

At 80.07 chs. the original cor. to secs. 33 & 34 bears N. 63 lks. dist

Thence I run

N. 89° 57' E. on a blank line on S. Bdy of sec. 34

At 40.45 chs the original 1/4 sec. cor. bears N. 16 lks. dist.

At 81.03 chs. the original cor. to secs. 34 & 35 bears N. 33 lks. dist.

July 14th 1900

July 15th 1900 – At 8 h a.m. I set off 40° 41' N. on the lat arc, 21° 34' N. on the decl. arc. and determine with the Solar a true Meridian at the S. W. cor. to T. 1 S. R. 23 E. hereto for

chs

to which I have returned
Thence I run
N. 89° 49' E. on retracement line
on S. Bdy of sec. 31

Over the rolling summit of Diamond Mountain plateau,

18.20 Intersect the c¼ NW. cor. to T. 2 S. R. 23 E. on the re-established Ashley Guide Meridian established in this survey

39.60 Intersect the original ¼ sec. cor. on S. Bdy of sec. 31 which is a sandstone 12 x 8 x 5 ins. set, marked and witnessed as described by the Surveyor General

65.00 Road bears NE. & SW.

78.72 Intersect the original cor. to secs. 31 & 32 in S. Bdy of Tp. which is a sandstone 24 x 24 x 10 ins. set, marked and witnessed as described by the Surveyor General.

Land high rolling plateau
Soil 2nd rate, gravelly loam
No timber

N. 89° 33' E. on a retracement line
on S. Bdy of sec. 32

5.50 Hollow 100 ft. deep drains NE.

14.50 Ridge 150 ft. high bears N.

30.00 Hollow 50 ft. deep drains NE.

38.96 Intersect the original ¼ sec. cor. on S. Bdy of sec. 32 which is a sandstone 12 x 10 x 10 ins, set marked and witnessed as described by the Surveyor General

48.50 Hollow 30 ft. deep drains NE.

68.50 Ridge spur 25 ft. high bears NE.

78.96 Intersect the original cor. to secs. 32 & 33 on S. Bdy of Tp. which is a sandstone 30 x 14 x 4 ins. set, marked and witnessed as described by the Surveyor General

Land broken plateau
Soil 2nd rate, gravelly loam
No timber

Retracement and resurvey of a part of the S. Bdy. of T. 1 S. R. 23 E.

chs.

N. 89° 30' E. on a re-survey line on S. Bdy of sec. 33.

14.50 Hollow 25 ft. deep drains S.E.

19.50 Ridge spur 150 ft. high bears S.E.

40.03 Find no trace of the original 1/4 sec. cor. on S. Bdy of sec. 33 – Set a sandstone 18x14x10 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable

42.50. Diamond Creek 10 lks. wide 4 ft deep (dry) in bottom of gulch 150 ft. deep drains S.E.

59.00 Hollow 30 ft. deep drains S.W.

69.50 Same hollow drains N.W.

71.50 Same hollow drains S.W.

80.07 Intersect the original cor. to secs. 33 & 34 on S. Bdy of Tp which is a quartzite 16x8x4 ins. set, marked and witnessed as described by the Surveyor General

Land high broken plateau
Soil 2nd rate gravelly loam
No timber

July 15th 1900 At this cor. I set off 21° 32' N. on the decl. arc and at 12 h. m. L.m.t. observe the sun on the Meridian the resulting lat. is 40° 41' N.

N. 89° 43' E. on a re-traverse line on S. Bdy of sec 34

3.00 Head of hollow drains S.E.

40.45 Intersect the original 1/4 sec. cor. on S. Bdy of sec 34 is a quartzite 16x8x4 ins. set, marked and as described by the Surveyor General

46.50 Hollow 30 ft. deep drains S.

Retracement and re-survey of a part of the S. Bdy of T. 1 S. R. 28 E.

chs.	
56.00	Ridge spur 100 ft. high bears S.
59.00	Enter aspen grove
62.00	Gully 15 ft. deep drains S.
65.00	Leave aspen grove
72.00	Ridge spur 100 ft. high bears S.
77.00	Enter aspen grove – Descend
81.08	Intersect the original cor. to secs 34 & 35 which is a cobblestone 15 x 10 x 7 ins. set, marked and witnessed as described by the Surveyor General.

Land high broken plateau
Soil 2nd rate, gravelly loam
Dense aspen undergrowth on 9.00 chs

July 15th 1900

For general description see end of field notes of additional Subdivision of T. 2 S. R. 23 E.

Edgar F. Harnston
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

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

se parts or portions of the .....

.....

.....

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

..... 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

eral for .....

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

.....

.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Jacob [illegible] United States Surveyor General for the District of Utah, bearing date of the 19th day of December, 1899, 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 District of Utah, the Manual of Surveying Instructions, and the laws of the United States, re-surveyed all those parts or portions of the fractional S. Bdy. T. 3 S. R. 21 E. Bdy. Fr. 3 S. R. 20 E. E. Bdy. Fr. 4 S. R. 21 E. S. Bdy. Fr. 2 S. R. 23 E. S. Bdy. Fr. 1 S. R. 23 E. S. Bdy. Fr. 4 S. R. 23 E. & Fr. 2 S. R. 24 E.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in book B.E.J.M.P.T. as having been re-surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said re-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 District of Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such re-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.

Edgar F. Harmston
United States Deputy Surveyor

Subscribed by said Edgar F. Harmston, and sworn to before me this 23rd day of May 1901, ~~189~~

Peter Hanson
County Clerk
Uintah Co. Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

_____, 18

The foregoing field notes of the survey of _____

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

_____
United States Surveyor General

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

_____
United States Surveyor General

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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 Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyors, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey of~~ surveys or Retracements of frac 1. S.Bdy.T.3 S.R.21 E.; E.Bdy.T.3 S.R.20 E.; E.Bdy.T.4 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and of S.Bdy.T.1 S.R.23 E.; also the S.Bdys. of T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah. acted:

Charley Fox, *Chainman.*

John Holmes, *Chainman.*

Josiah Simmons, *Moundman.*

, *Moundman.*

Albert Kone, *Axman.*

, *Axman.*

Craig Harmston, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyors, in re surveying and retracements all those parts or portions of the

of frac 1. S.Bdy.T.3 S.R.21 E.; E.Bdy.T.3 S.R.20 E.; E.Bdy.T.4 S.R.21 E.; S.Bdy.T.2 S.R.23 E. and S.Bdy.T.1 S.R.23 E.; also the S.Bdys.T.4 S.R.23 E. and T.2 S.R.24 E. of the Salt Lake Base and Meridian, Utah.

of the

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

Charley Fox, *Chainman.*

John Holmes, *Chainman.*

J. Simmons, *Moundman.*

, *Moundman.*

Albert Kone, *Axman.*

, *Axman.*

Craig Harmston, *Flagman.*

Subscribed and sworn to before me this 10th day of August, 1900

O. P. Gable
Notary Public
MY COMMISSION EXPIRES FEB 25, 1902.

SEAL

—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Adolphe Jessen, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for the District of Utah, bearing date of the 19th day of December, 1899, 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 District of Utah, the Manual of Surveying Instructions, and the laws of the United States, re surveyed & retraced all those parts or portions of the fractional S Bdy Tp 3 S R 21 E, E Bdy Tp 3 S R 20 E - E Bdy Tp 4 S R 21 E - S Bdy Tp 2 S R 23 E S Bdy Tp 1 S R 23 E, S Bdy Tp 4 S R 23 E and Tp 2 S R 24 E

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes in book B.F.J.M.P.T. as having been re surveyed or retraced by me, and under my direction; and I do further solemnly swear that all the corners of said re 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 District of Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such re 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.

Adolphe Jessen
United States Deputy Surveyor

Subscribed by said Adolphe Jessen, and sworn to before me this 31st day of May 1901, ~~189~~

Edward H Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 25, 1902, 189

The foregoing field notes of the survey of retracement or re the South Boundary of Township 1 South Range 23 East of the Salt Lake Base and Meridian Utah

executed by Adolphe Jessen and Edgar F Harmston under ~~his~~ the contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the re surveys & retracement they describe, are hereby approved.

Edward H Anderson
United States Surveyor General

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

United States Surveyor General

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Filed January 13, 1908

BOOK A-339

U.

FIELD NOTES

OF THE Retracement and Re-SURVEY OF ~~THE~~

Certain Subdivision Lines

in

T. 2 S. R. 23 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Edgar F. Hamilton, United States Deputy Surveyor,

der his Contract No. 235, dated December 19th, 1899

ocement and vey commenced October 25th, 1906

cement and vey completed October 29th, 1906.

6—151

Retr. 5-79-03 ✓

Corr

NAMES AND DUTIES OF ASSISTANTS.

Charles L. Bailey	Chainman
Craig Hamilton	"
Mellette Hamilton	Moundman
Bert Shisler	Axman
Brasher Bailey	Flagman

6—151

BOOK A-339

INDEX DIAGRAM.

Township [illegible] *Range* [illegible]

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19	20	21	22	5	23	24
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31	32	33	34	7	35	36

Meanders Page .....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles L. Bailey and Craig Harmston

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 assis measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement and re-survey of Certain Subdivision Lines in Tp 2 S. R. 23 E. SLM. Ut

Charles L. Bailey, Chain

Craig Harmston, Chainm

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzeck
Notary Public

WE, I. Mellette Harmston and

do solemnly swear that ~~we~~ I will well and truly perform the duties of moundmen in the establish of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the retracement and re-survey of Certain Subdivision Lines in Tp 2 S. R. 23 E. SLM. Utah.

Mellette Harmston, Mound

, Mound

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzeck
Notary Public

WE, I. Bert Shisler and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of cc and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the retracement and re-survey of Certain Subdivision Lines in Tp 2 S. R. 23 E. SLM. Utah.

Bert Shisler, A

, A

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzeck
Notary Public
Vernal Utah

I, Bradner Bailey, 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, retracement and re-survey of Certain Subdivision Lines in Tp 2 S. R. 23 E. SLM.

Bradner Bailey, Flag

Subscribed and sworn to before me this 10th day of August, 1906

SEAL

Herbert Izzeck
Notary Public

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RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S. R.23 E.

Chains

Survey commenced October,25th.1906,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 latitude and declination arcs.

I examine the adjustments of the transit and correct th. level and collimation errors;then to test the solar appa.a-tus,by comparing its indications,resulting from solar ob-ervations made during a.m.,and p.m.,hours,with a meridia determined by observations on Polaris,I proceed as follows:

At the cor.of secs. 2,3,34,and 35,on S bdy.of Tp. which is a sandstone 8x8x8 ins.above ground,marked and witnessed as described by the surveyor general;Latitude,40°35'38"N., Longitude 109° 16'51" W.,

I set off 40° 36' N on the lat.arc;12° 00' S., on the decl.arc,and at 4h.,14' p.m., l.m.t., determine with the solar a meridian and mark a point thereof on a stone firm-ly set in the ground,5 chs. N of the cor.

(October,25th.1906.

October,26th.1906: At 5h.07m.,a.m.,l.m.t.,I observe Pol-aris at western elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined on a peg driven in the ground 5 chs.N of my station.

At 6h.00 m.,a.m.,l.m.t., I lay off the azimuth of Polaris 1°34' to the east,and mark the meridian thus determined, by cutting a small groove in the stone set October,25th.on which the meridian falls 0.4 ins.east of the mark deter-mined by the solar.

At 8h.14m.,a.m.,l.m.t., I set off 40° 36' on the lat.arc 12°15' S on the decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs.N of my station;this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m.,and a.m.,-observations,de-

Chains

fines positions for meridians, respectively, about 0'21" we and 0'16" east of the meridian established by Polaris observations; therefore, I conclude that the adjustments of ti instrument are satisfactory.

The magnetic bearing of the true meridian, at 7h.30m., a.m. is N.15°45' W., the angle thus determined gives the magnetic declination 15°45' E.

Note:- In order to have a definite line to close on with the additional subdivision survey of T.2 S., R.23 E., I retrace the W bdy. of the subdivided portion of the Tp.

October, 26th. 1906:- At 8h.54m, a.m., l.m.t., I set off 40° 36'N. on the lat. arc; 12°16'S on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2, 3, 34, and 35, on S bdy. of Tp.

Thence I run

North on a blank line on W bdy. of sec. 35.

At 40.00 chs, the established ¼ sec. cor. bears W 20 lks. dist.

At 79.66 chs. the established cor. of secs. 26, 27, 34 and 35 bears W 40. lks. dist.

The course of this line is therefore, N.0° 17'W.

Thence I run

North on a blank line on W bdy. of sec. 26.

At 39.80 chs. the established ¼ sec. cor. bears W 26 lks. dist.

At 79.50 chs. the established cor. of secs. 22, 23, 26 and 27 bears W 51 lks. dist.

The course of this line is therefore N.0° 22' W.

Thence I run

North on a blank line on W bdy. of sec. 23.

At 40.00 chs. the established ¼ sec. cor. which is a

RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S.,R.23 E.,

Chains

charred aspen post,rotted off at surface of the ground, bears W.9 lks.dist.

At 80.00 chs. the established cor.of secs. 14,15,22 and 23 bears W. 19 lks.dist.

The course of this line is therefore N.0° 08' W.

Thence I run

North on a blank line on W bdy.of sec. 14.

At 39.77 chs. the established ¼ sec.cor. bears W 38 lks. dist.

At 80.30 chs. the established cor.of secs. 10,11,14 and 15 bears W 77 lks.dist.

The course of this line is therefore N.0° 33' W.

Thence I run

North on a blank line on W bdy.of sec. 11.

At 40.00 chs.the established ¼ sec.cor.bears W. 35 lks. dist.

At 79.50 chs.the established cor.of secs. 2,3,10,and 11 bears W. 70 lks.dist.

The course of this line is therefore N.0° 30'W.

Thence I run

North on a blank line on W bdy.of sec. 2.

At 40.00 chs. the established ¼ sec.cor. bears W. 35 lks. dist.

At 80.07 chs. Intersect N bdy.of Tp. 70 lks.E of the established cor.of secs. 2,3,34,and 35.

The course of this line is therefore N.0° 30'W.

(October,26th.1906.

October,27th.1906:- At the cor.of secs. 34 and 35,on S bdy. of Tp. to which I have returned--I set off 12° 39' S.on decl.arc,and at 11h.54m.,m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading 40°36' N.,

RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S.,R.23 E.

Chains	
	which agrees with other data.
	Thence--- computing my courses from the fallings on the blank line---- I run
	N.0° 17' W. on retracement line bet.secs. 34 and 35.
	Ascend precipitous S slope in cedars.
15.00	Bend in road bears N.20° E. and S.20° E.
35.00	Leave cedars.
40.00	Intersect the established ¼ sec.cor. bet.secs. 34 and 35, which is a sandstone 8x8x6 ins.above ground,marked and witnessed as described by the surveyor general.
42.00	Enter Diamond Mountain plateau,500 ft.higher than the surrounding foot hills;it bears E and SW.
71.00	Leave plateau;descend.
77.00	Old mail road bears NW and SE.
79.66	Intersect the established cor.of secs. 26,27,34 and 35, which is a boulder 5x10x4 ins.above ground,marked and witn-ed as described by the surveyor general.
	Land high plateau and broken slope.
	Soil,1st.and 2d.rate;gravelly and sandy.
	Timber,cedars,on 35.00 chs.
	Mountainous land on 50.66 chs.

	N.0° 22' W. on retracement line bet.secs. 26 and 27.
	Descend:
11.00	Gulch 25 ft.deep drains SW. Ascend.
31.00	Top of ridge spur,30 ft.above gulch,projects SW. descend.
39.80	Intersect the established ¼ sec.cor. bet.secs. 26 and 27, which is a sandstone 4x8x4 ins.above ground,marked and witnessed as described by the surveyor general.
52.00	Enter Diamond Mountain plateau,bears NW and SE.
75.00	Road to Willow Spring,bears NW and SE.
79.50	Intersect the established cor.of secs. 22,23,26 and 27, which is a cobblestone 4x8x6 ins. above ground,marked and witnessed as described by the surveyor general.
	Land high plateau and broken slope.

RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S.,R.23 E.

Chains

Soil,1st.and 2d.rate; gravelly and sandy.

No timber.

Undergrowth,sage brush.

Some grass for grazing.

N. 0° 08' W. on retracementline bet.secs. 22 and 23.

Over rolling plateau.

40.00 Find traces of the established ¼ sec.cor.,which is a charred aspen post,rotted off at surface of the ground,

Set a sandstone 12x8x6 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face; dig pits 18x18x12 ins. N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high W of cor.

80.00 Intersect the established cor.of secs. 14,15,22 and 23, which is a sandstone 5x9x4 ins.above ground,marked and witnessed as described by the surveyor general.

Land high,rolling plateau.

Soil,2d.rate;gravelly.

No timber.

Undergrowth,sage brush.

Some grass for grazing.

(October,27th.1906.

October,29th.1906:- At 8h.,14 m.,a.m.,l.m.t., I set off 40° 38' N on the lat.arc;13° 16'S on decl.arc,and determine a meridian with the solar at the cor.of secs. 14,15,22 and 23.

Thence I run

N.0° 33'W. on a retracement line bet.secs. 14 and 15.

39.77 Intersect the established ¼ sec.cor. bet.secs. 14 and 15, which is a quartzite 7x12x6 ins.above ground,marked and witnessed as described by the surveyor general.

44.50 Bottom of hollow 15 ft.below plateau,drains NE. Ascend.

50.00 Top of ridge spur,15 ft.above hollow,projects E. Descend.

52.50 Dry bed of S Fork of Diamond creek,10 lks.wide,2 ft.deep, drains SE. Ascend.

RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S. R.23 E.

Chains	
80.30	Intersect the established cor.of secs. 10,11,14 and 15, which is a sandstone 6x14x9 ins.above ground,marked and witnessed as described by the surveyor general.
	Land rolling plateau.
	Soil,1st.rate;sandy loam.
	No timber.
	Some grass for grazing.

	N.0° 30'W on retracement line bet.secs. 10 and 11.
9.00	Road to Brown's Park bears E and W.
36.00	Bed of Diamond creek,10 lks.wide,4 ft.deep,drains SE; dry,except in pools.
40.00	Intersect the established ¼ sec.cor.bet.secs. 10 and 11. which is a limestone 5x12x6 ins.above ground,marked and witnessed as described by the surveyor general.
43.00	Andrew Murray's pole fence bears N.10° E. 10 chs.,and S.10° W. about 10 chs.
46.00	Andrew Murray's house bears W 11 chs.dist.
53.50	T.W.Murray's cabin bears W. 21.00 chs.dist. and Andrew Murray's fence bears E. 1.75 chs. and W. about 12 chs.
79.50	Intersect the established cor.of secs. 2,3,10 and 11, which is a limestone 5x12x5 ins.above ground,marked and witnessed as described by the surveyor general.
	Land rolling plateau.
	Soil,1st.rate;sandy loam.
	No timber.
	Undergrowth,sage brush.
	Some grass for grazing.

	N.0° 30' W.on retracement line bet.secs. 2 and 3.
	Descend.
10.00	Bottom of hollow 15 ft.below sec.cor. drains W. Ascend.
28.00	Top of ridge spur,25 ft.above hollow,projects W. Descend.
35.00	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
36.00	Trail bears NE and SW.

RETRACEMENT OF CERTAIN SUBDIVISION LINES IN T.2 S. R.23 E.

Chains

40.00 Intersect the established ¼ sec.cor.bet.secs. 2 and 3, which is a limestone 5x12x6 ins. above ground,marked and witnessed as described by the surveyor general.

71.00 Top of ridge spur,50 ft.above hollow,projects SW. Descend.

74.50 Bottom of hollow 25 ft.below spur,drains SW. Ascend.

78.00 Enter Aspen grove.

80.07 Intersect the N bdy.of Tp.at cor.of secs. 2,3,34,and 35. heretofore described.

Land broken plateau.

Soil,1st,rate.sandy loam.

Aspen on N 2.07 chs.

Some grass for grazing.

(October,29th.1906.

Boundaries of Additional Subdivisions in T.2 S.,R.23 E., Latitudes,Departures,and Closing Errors.

s Desig-ated	True Bearing	Dist.Chs.	Latitude North	Latitude South	Departure East	Departure West
y G.Mer.	North	477.05	477.05			
of N.	N.89°49'E.	60.52	.19		60.52	
of Tp.	N 89°33'E.	78.96	.62		78.96	
	N 89°30'E.	80.07	.70		80.07	
	N 89°43'E.	81.08	.40		81.08	
	S 0°30'E.	159.57		159.56	1.39	
Bdy.of	S 0°33'E.	80.30		80.30	.77	
al Sur-	S 0° 08'E.	80.00		80.00	.19	
f Subdi-	S 0° 22'E.	79.50		79.50	.51	
s.	S 0° 17'E	79.66		79.66	.39	
Bdy.	West	304.00				304.00
gency					.41	
		478.98	478.96	479.02	304.29	304.00
				478.96	304.00	
	Error in Latitude,- - -			.06		
	Error in Departure,- - - -				.29	

Note:- For general description,see end of field notes of additional subdivisions of this township.

Edgar F. Hamilton

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 Edgar F. Namson, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the retracement and re-survey of Certain Subdivision Lines in Tp. 2 S. R. 23 E. S.L.M. Utah.

showing the respective capacities in which they acted:

Charles L. Bailey, *Chainman.*
Craig Namson, *Chainman.*
Mellette Namson, *Moundman.*
, *Moundman.*
Bert Shisler, *Axman.*
Bradner Bailey, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Namson, United States Deputy Surveyor, in surveying all the parts or portions of the retracement and resurvey of certain subdivision lines, in Tp. 2 S. R. 23 E.

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

Charles L. Bailey, *Chainman.*
Craig Harmston, *Chainman.*
Mellette Harmston, *Moundman.*
, *Moundman.*
Bert Shisler, *Axman.*
, *Axman.*
Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 10th day of December, 1907

SEAL

Herbert Izzack
Notary Public

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyo
solemnly swear that, in pursuance of a contract received from Jacob B. Blair
United States Surveyor General for Utah, bearing date o
19th day of December, ~~190~~ 1899, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Su
General for Utah, the Manual of Surveying Instructions, and the laws o
United States, surveyed all those parts or portions of the retracement and resum
of Certain Subdivision Lines in Tp 2 S. R 23 E.

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

Edgar F. Harmston
United States Deputy Su

Subscribed by said Edgar F. Harmston, and sworn to before me
this 10th day of December, 190 7

Jas A Hacking
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH,

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11,

The foregoing field notes of the survey of the retracement of certain subdivi
sion lines in Township No.2 South, Range No. 23 East of the Salt
Lake Base and Meridian, Utsh,

executed by Edgar F.Harmston
under his contract No. 235, dated December 19, 1899, 190 , havin
critically examined, and the necessary corrections and explanations made, the said field notes, a
retracements
surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor G

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

United States Surveyor G

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4—679. Filed Oct.25, 1907.

BOOK A-339

V.

FIELD NOTES

H.3.B.

OF THE SURVEY OF THE

SUBDIVISION LINES

OF

TOWNSHIP 2 SOUTH,

RANGE 23 EAST

Of the SALT LAKE BASE AND *Meridian,*

UTAH,

AS SURVEYED BY

Edgar F.Harmston, *United States Deputy Surveyor,*

nder his Contract No. 235, *dated* December 19th 1899, *190*

urvey commenced October 29th, *190* 6.

urvey completed November 3rd, *190* 6.

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BOOK A-339

NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey,	Chainman.
Craig Harmston,	Chainman.
Mellette Harmston,	Moundman,
Bert Shisler,	Axman,
Bradner Bailey	Flagman.

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BOOK A-339

INDEX DIAGRAM.

Township — 2 SOUTH —, *Range* — 23 EAST. —

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7	28	8	17	9	9	10	2	11	12
27		26		16		8			
18	26	17	15	16	8	15	2	14	13
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30		19		11		4			
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Meanders Page ———

6—151

PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles L. Bailey, ——— and Craig Harmston,
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
the subdivision lines of T. 2 S., R. 23 E., S.L.B.& M., Utah.

Charles L. Bailey, Chainma
Craig Harmston, Chainma

Subscribed and sworn to before me this 10th.
day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

~~We~~ I, Mellette Harmston,
do solemnly swear that ~~we~~ I will well and truly perform the duties of moundman in the establishme
of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey
the subdivision lines of T. 2 S., R. 23 E., S.L.B.& M., Utah.

Mellette Harmston Moundma

Subscribed and sworn to before me this 10th.
day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

~~We~~ I, Bert Shisler,
do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corn
and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey
the subdivision lines of T. 2 S., R. 23 E., S.L.B.& M., Utah.

Bert Shisler, Axma

Subscribed and sworn to before me this 10th.
day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

I, Bradner Bailey, ——, 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 the subdivision lines of T. 2 S., R. 23 E. S.L.B.& M. Utah.

Bradner Bailey, Flag

Subscribed and sworn to before me this 10th.
day of August, 1906. ——, 189

SEAL

Ward E. Pack Jr
Notary Public.

6—151

SUBDIVISION OF T.2 S., R.33 E.

Chains

Survey commenced October,29th.1906,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.

I examine the adjustments of the transit and find the levels and line of collimation in adjustment;then,to test the solar apparatus,by comparing its indications,resulting from solar observations made during a.m.,and p.m., hours,with a meridian determined by observations on Polaris,I proceed as follows:- At the cor.of secs. 3,4,33 and 34,on S bdy.of Tp. heretofore described in the field notes of this survey;Latitude, 40°35'38" N., Longitude,109° 30'17" W.

I set off 40° 36' N on the lat.arc;13° 21' S on the decl. arc,and at 3h.44m.,p.m.,l.m.t., determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground,5 chs. N of the cor.

October,30th.1906: At 4h.51m.,a.m.,l.m.t.,I observe Polaris at western elongation,in accordance with Manual of Instructions,and mark a point in the line thus determined on a peg driven in the ground,5 chs. N of my station.

At 6h.,15m.,a.m., l.m.t., I lay off the azimuth of Polaris 1°34' to the east,and mark the meridian thus determined by cutting a small groove in the stone set October,29th.on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 3h.,44m.,a.m.,l.m.t., I set off 40° 36' on the lat.arc; 13°24' S.on the decl.arc,and mark a point in the meridian determined with the solar,by a cross on the stone already set 5 chs. N of my station;this mark falls 0.3 ins.east of the meridian established by Polaris observation.

The solar apparatus,by p.m. and a.m. observations,defines positions for meridians,respectively about 0'16" west and 0'16" east of the meridian established by thd Polaris observa-

SUBDIVISION OF T.2 S.,R.23 E.

Chains	
	tions;therefore,I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h.06m.,a.m. is N 15° 45' W;the angle thus determined gives the magneti declination 15° 45' E.

	On account of the retracement of the subdivisions showing the lines to be out of limits,
	I run North on a Sectional Guide Meridian,bet.secs. 33 and
1.00	Descend in cedars. [illegible]
3.00	Bottom of rocky hollow,30 ft.below cor. drains SW. Ascend.
9.50	Leave cedars,bearing SW and NE.
10.00	Top of ridge spur,30 ft.above hollow,projects SW.
	Descend precipitous NW slope.
11.00	Re-enter cedars,bearing NE and SW.
28.00	Bottom of hollow,200 ft.below spur,drains SW. Ascend.
32.00	Old mail road,bears NE and SW.
40.00	Set a sandstone 12x9x5 ins. 8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face, from which
	A cedar 8 ins.diam.bears N.75°00'W. 20 lks.dist.marked ¼ S 33 B T.
	A cedar 10 ins.diam.bears N.31°00'E. 35 lks.dist.marked ¼ S 34 B T.
	A spring bears S.45° W. 10 chs.dist. drains NW.
45.50	Bottom of hollow 20 ft.below road,drains SW. Ascend.
56.00	Top of ridge spur,20 ft.above hollow,projects SW. Descend.
59.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
63.00	Top of ridge spur,100 ft.above hollow,projects SW.
	Descend.
67.50	Bottom of hollow 50 ft.below spur,drains W. Ascend.
73.00	Top of ridge spur,50 ft.above hollow,projects W. Descend.
76.50	Head of hollow drains SW. Ascend.
80.00	Set a sandstone 12x10x8 ins. 8 ins.in the ground,for cor. of secs. 27,28,33,and 34,marked 1 notch on S;3 notches on E edges. from which

SUBDIVISION OF T.2 S.,R.23 E.

Chains

A cedar 9 ins.diam.bears N 4°00'W. 34 lks.dist.marked T 2 S. R 23 E. S 28 B T.

A cedar 8 ins.diam.bears S 65°00'W. 31 lks.dist,marked T 2 S.R 23 E. S 33 B T.

A cedar 12 ins.diam.bears S 64°00'E. 46 lks.dist.marked T 2 S.R 23 E.S 34 B T.

A cedar 8 ins.diam.bears N 55°00'E. 50 lks.dist.marked T 2 S.R 23 E. S 27 B T.

Land mountainous.

Soil,3d.rate;stony.

Timber,cedars on 78.50 chs.

Undergrowth,sage brush.

Some grass.

Mountainous land on 80.00 chs.

East on a random line bet.secs. 27 and 34.

40.00 Set temp.¼ sec.cor.

79.49 Intersect N and S line 34 lks.N of cor.of secs. 26,27,34 and 35,heretofore described.

Thence I run

N.89°45'W.on a true line bet.secs. 27 and 34.

Descend on W slope of Diamond Mountain plateau.

0.50 Old mail road,bears NW and SE.

5.50 Same road,bears SW and NE.

30.00 Enter cedars,bear N and S.

39.49 Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ s c. cor.marked ¼ on N face, from which

A cedar 10 ins.in diam.bears S 59°00'W. 59 lks.dist.marked ¼ S 34 B T.

A cedar 12 ins.diam.bears N.74°00'W. 74 lks.dist.marked ¼ S 27 B T.

52.00 Bottom of hollow 50 ft.below ¼ sec.cor. drains NW. Ascend.

55.00 NW point of bench spur. Descend.

59.50 Bottom of hollow,50 ft.below point of spur,drains N. Ascend.

SUBDIVISION OF T 2 S.R.23 E.

Chains	
79.49	The cor.of secs. 27,28,33,and 34.
	Land mountainous.
	Soil 3d.rate;stony.
	Timber,cedars on 49.49 chs.
	Undergrowth,service brush.
	Some grass for grazing.
	Mountainous or heavily timbered land on 79.49 chs.

	For reasons heretofore described,I run North on a Section Guide Meridian,bet.secs. 27 and 28.
	Descend in cedars.
19.50	Bottom of hollow 50 ft.below cor. drains SW. Ascend.
29.00	Top of sandy ridge spur,20 ft.above hollow,projects SW. Descend.
32.50	Bottom of hollow,20 ft.below spur,drains SW. Ascend.
36.00	Top of ridge spur,25 ft.above hollow,projects SW. Descend
39.50	Bottom of hollow,in solid sandstone,30 ft.below spur, drains SW. Ascend.
40.00	Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ sec cor.marked ¼ on W face, from which
	A cedar 10 ins.diam.bears S 71° 00' W. 50 lks.dist.marked ¼ S 28 B T.
	A cedar 12 ins.diam.bears N 52°00'E. 90 lks.dist.marked ¼ S 27 B T.
62.75	Top of ridge spur,100 ft.above hollow,projects SW. Descend.
66.00	Spring Branch 2 lks.wide,2 ins.deep,good water,in hollow, 30 ft.below spur,drains SW. Ascend.
72.00	Top of ridge spur,20 ft.above hollow,projects SW. Descend
75.50	Spring Branch 2 lks.wide,2 ins.deep,good water,in bottom of hollow,30 ft.below spur,drains SW.Spring 3 chs.E of lin Ascend.
80.00	Set a sandstone 15x10x8 ins. 10 ins.in the ground,for cor. of secs. 21,22,27,and 28,marked 2 notches on S;3 notches on E edges, from which

SUBDIVISION OF T 2 S.R 23 E.

Chains

A cedar 8 ins.diam.bears N 89°00'E. 33 lks.dist.marked T 2 S.R 23 E. S 22 B T.

A cedar 4 ins.diam.bears S 7°00'E. 9 lks.dist.marked T 2 S.R 23 E. S 27 B T.

A cedar 4 ins.diam.bears S 46°00'W. 30 lks.dist.marked T 2 S.R 23 E.S 28 B T.

A cedar 4 ins.diam.bears N.14°00'W. 17 lks.dist.marked T 2 S.R 23 E.S 21 B T.

Land mountainous.

Soil,3d.rate,stony.

Timber,cedars on 80 chs.

Mountainous or heavily timbered land on 80.00 chs.

S.89°45'E. on a random line bet.secs. 22 and 27.

40.00 Set temp.¼ sec.cor.

79.09 Intersect N and S line 50 lks.N of cor.of secs. 22,23,26 and 27,heretofore described.

At N.0° 8'W. 84 lks.from cor.of secs. 22,23,26,and 27, Set a sandstone 20x10x5 ins.15 ins.in the ground,for closing cor.of secs. 22 and 27,marked 2 grooves on S;2 grooves on E faces;C C on W face,and raise a mound of stone 2 ft.base, 1½ ft.high W of cor. Pits impracticable.

I destroy all marks on old cor.pertaining to secs. 22 and 27.

Thence I run

West on a true line bet.secs. 22 and 27.

Over plateau on Diamond Mountain.

3.00 Road to Willow Springs bears NW and SE.

15.00 Leave plateau;descend precipitous W slope.

20.00 Bottom of rocky gulch,150 ft.below plateau,drains SW. Ascend.

24.50 Spur from plateau,60 ft.above gulch,projects SW. Descend

39.09 Set a sandstone 18x12x10 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 t. base,1½ ft.high N of cor. Pits impracticable.

45.00 Bottom of rocky canyon,200 ft.below spur,drains SW.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	Ascend.
52.00	Top of ridge spur,150 ft.above canyon,projects SW. Descer
56.00	Bottom of canyon,200 ft.below spur;spring in bottom of car yon 4 chs. S of line,canyon drains SW.
	Ascend through cedars.
60.00	Sandstone precipice 300 ft.high bears NE and SW. Ascend.
73.00	Top of ridge spur,50 ft.above top of precipice,projects SW. Descend.
77.00	Spring Branch 2 lks.wide,2 ins.deep,good water,in bottom of gulch,50 ft.below spur,drains SW. Spring 4 chs. S.
79.09	The cor.of secs. 21,22,27,and 28.
	Land mountainous.
	Soil,1st.and 3d.rate,loam and rocky.
	Timber,cedars on 23.09 chs.
	Undergrowth,sage brush.
	Some grass on plateau.
	Mountainous or heavily timbered on 79.09 chs.

	October,30: At the cor.of secs. 21,22,27,and 28,I set off 13°39'S.on the decl.arc,and,at 11h. 44m.,a.m.,l.m.t., observe the sun on the meridian,and obtain the reading 40° 37' on the lat.arc,which agrees with other data.
	For reasons heretofore described,I run North on Sectional Guide Meridian,bet.secs. 21 and 22.
	Ascend over broken slope through cedars.
25.00	Top of ridge spur,75 ft.above cor.projects SE. Descend.
34.00	Bottom of hollow 40 ft.below spur,drains SE. Ascend.
	Leave cedars.
40.00	Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 f base,1½ ft.high W of cor. Pits impracticable.
45.00	Squaw Spring 10 chs.W of line,good water,flows SW.
77.50	Enter Diamond Mountain plateau,bears NW and SE.
80.00	Set a sandstone 12x12x8 ins. 8 ins.in the ground,for cor. of secs. 15,16,21 and 22,marked 3 notches on S;3 notches

SUBDIVISION OF T 2 S. R.23 E.

Chains

on E edges;T 2 S on NE and R 23 E on SE faces,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impr c-ticable.

Land mountainous.

Soil 2d.and 3d.rate,gravelly and rocky.

Timber,cedars on S 34.00 chs.

Undergrowth,sage brush.

Some grass for grazing.

Mountainous land on 77.50 chs.

Knowing that I will not intersect the cor.of secs. 14,15,22, and 23,within limits,

I run East on a true line bet.secs. 15 and 22.

Over rolling plateau on Diamond Mountain.

6.00 Road to Willow Springs,bears NW and SE.

40.00 Set a sandstone 20x18x4 ins. 15 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

75.00 Road bears NW and SE.

78.89 Intersect N and S line at N.69.33 W. 84 lks. from the cor.of secs. 14,15,22,and 23,heretofore described.

Set a sandstone 12x10x8 ins.8 ins.in the ground,for closing cor.of secs. 15 and 22,marked 2 grooves on E;3 grooves on S,and CC on W faces,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
I destroy all marks on old cor.pertaining to secs.15 and 22
Land rolling plateau.

Soil 1st.rate,sandy loam.

No timber.

Undergrowth,sage brush.

Some grass for grazing.

For reasons heretofore described,I run North on Sectional Guide Meridian,bet.secs. 15 and 16.

Over rolling plateau,on Diamond Mountain.

2.41 Road to Willow Springs bears NW and SE.

Chains	
10.00	Bottom of hollow 50 ft.below cor.drains NE. Ascend.
35.00	Top of ridge spur,50 ft.above hollow,projects E. Descend.
40.00	Set a sandstone 12x8x6 ins. 8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face, and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
40.47	Bottom of hollow 50 ft.below spur,drains E. Ascend.
51.50	Top of ridge spur,50 ft.above hollow,projects E. Descend.
79.95	Bottom of South Fork of Diamond Gulch (dry) 150 ft.below spur,drains SE.
80.00	Set a sandstone 14x10x8 ins. 10 ins.in the ground,for cor. of secs: 9,10,15,and 16,marked 3 notches on E;4 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.
	Soil 1st rate,gravelly loam.
	Undergrowth,sage brush. No timber.
	Some grass for grazing.
	Mountainous land on 80.00 chs.

	For reasons heretofore described,
	I run East on a true line bet.secs.10 and 15.
	Ascend gradually along S slope.
16.00	Top of ridge spur,100 ft.above cor. projects SE. Descend.
26.46	Bottom of hollow 100 ft.below spur,drains SE. Ascend.
40.00	Set a limestone 14x10x6 ins. 10 ins.in the ground,for ¼ sec.cor. marked ¼ on N face;dig pits 18x18x12 ins. E and of stone 3 ft.dist.and raise a mound of earth 3½ ft.base, 1½ ft.high N of cor.
78.13	Intersect N and S line at N.0° 30' W. 54 lks. from cor.of secs. 10,11,14 and 15,heretofore described.
26.46	
51.67	Set a sandstone 20x10x3 ins. 15 ins.in the ground,for clo. ing cor.of secs. 10 and 15,marked 2 grooves on E;4 groove on S,and CC on W faces,and raise a mound of stone 2 ft.ba 1½ ft.high W of cor. Pits impracticable.
	Destroy marks on old cor.pertaining to secs.10 and 15

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Chain

Land rolling and mountainous.

Soil 1st.rate,gravelly loam.

No timber.

Undergrowth,sage brush.

Some grass for grazing.

Mountainous land on 26.46 chs.

For reasons heretofore described,I run North bet.secs, 9 and 10, on sectional.guide meridian. Ascend.

9.00 Top of ridge spur,100 ft.above bottom of S Fork of Diamo d Gulch,projects S 80° E. Descend.

28.00 Bottom of hollow 30 ft.below spur,drains SE. Ascend.

37.00 Road to Brown's Park bears NW and SE.

40.00 Set a sandstone 12x10x7 ins. 8 ins.in the ground,for ¼ sec.cor. marked ¼ on W face;dig pits 18x18x12 ins. N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high W of cor.

80.00 Set a sandstone 12x8x6 ins. 8 ins.in the ground,for cor. f secs,3,4,9,and 10;marked 3 notches on E;5 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land rolling and mountainous.

Soil 1st.rate;sandy loam.

No timber.

Sage brush and grass.

Mountainous land on 28.00 chs.

(October,30th.1906.

October,31st.1906: At 8h.14m.,a.m.,l.m.t., I set off 40° 0' on the lat.arc;13°55' S on decl.arc,and determine a meridian with the solar at the cor.of secs. 3,4,9,and 10.

For reasons heretofore described,I run East on a true line bet.secs. 3 and 10. Over bench bears NW and SE.

13.00 Descend from bench.

40.00 Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	base, $1\frac{1}{2}$ ft. high, N of cor. Pits impracticable.
50.03	N. Fork of Diamond Gulch (dry) in bottom of hollow, 100 ft. below bench, drains S 20° E. Ascend.
64.53	Old road bears NW and SE.
75.00	Top of bench spur, 100 ft. above Gulch, projects N 20° W. Descend.
77.43	Intersect N and S line at N.0° 30'W. 1.34 chs. from cor. of secs. 2, 3, 10, and 11, heretofore described. Set a sandstone 12x8x6 ins. 8 ins. in the ground, for closing cor. of secs. 3 and 10, marked 2 grooves on E; 5 grooves on S, and CC on W faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W of cor. Pits impracticable. Destroy marks on old cor. pertaining to secs. 3 and 10. Land rolling and mountainous. Soil 2d. rate gravelly and rocky. No timber. Sage brush and grass. Mountainous land on 64.43 chs.

	For reasons heretofore described, I run North on a true line bet. secs. 3 and 4. Over bench bears NW and SE.
15.50	Descend from bench.
20.00	Bottom of hollow, 50 ft. below bench, drains NE. Ascend.
29.50	E point of ridge spur, 25 ft. above hollow. Descend.
33.20	N. Fork of Diamond Gulch, (dry) in bottom of hollow 25 ft. below point of spur, drains S 70° E. Ascend.
40.00	Set a sandstone 12x8x6 ins. 8 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on W face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W of cor. Pits impracticable.
78.35	Intersect N bdy. of Tp. N.89°43'E. 4.35 chs. N of cor. of secs. 3, 4, 33 and 34, which is a quartzite 5x11x4 ins. above ground, marked and witnessed as described by the surveyor general. At intersection, set a limestone 18x12x10 ins. 12 ins. in the ground, for closing cor. of secs. 3 and 4, marked 3 grooves on E; 3 grooves on W; CC on S faces, and raise a

SUBDIVISION OF T 2 S.R 23 E.

Chains

mound of stone 2 ft.base,1½ ft.high S of cor.

I destroy all marks on old cor.pertaining to secs. 3 and

Land rolling and mountainous.

Soil 1st and 2d.rate. sandy loam and rocky.

No timber.

Sage brush and grass.

Mountainous land on 62.85 chs.

From cor.of secs. 32 and 33 on S bdy.of Tp. heretofore described,

I run

N.0° 1'W. bet.secs. 32 and 33. Ascend.

4.50 Top of ridge spur,20 ft.above cor.projects NW. Descend.

6.50 Wash 15 lks.wide,15 ft.deep,drains W.

14.00 Wash 8 lks.wide,6 ft.deep,drains W. Ascend.

17.00 Enter cedars,bearing E and W.

30.00 Top of ridge 100 ft.above wash,bears E and W. Descend.

30.50 Leave cedars,bearing E and W.

40.00 Set a sandstone 18x11x8 ins.13 ins.in the ground,for ¼ s c. cor.marked ¼ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.

In broken hollow,100 ft.below ridge,draining W. Ascend.

47.00 Top of ridge spur,75 ft.above hollow,projects W. Descend

55.00 Bottom of hollow 30 ft.below spur,drains W. Ascend.

62.00 Top of ridge spur,30 ft.above hollow,projects W. Descend

69.00 Bottom of hollow 30 ft.below spur,drains S 70° W. Ascend

80.00 Set a sandstone 30x18x12 ins. 22 ins.in the ground,for cor. of secs. 28,29,32,and 33,marked 1 notch on S;4 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land mountainous.

Soil,2d.and 3d.rate;rocky.

Timber,cedars on 13.50 chs.

Sage brush and some grass.

Mountainous land on 80.00 chs.

SUBDIVISION OF T 2 S.R 23 W.

Chains	
	East.on a random line bet.secs. 28 and 33.
40.00	Set temp.¼ sec.cor.
80.20	Intersect N and S line 7 lks.N of.cor.of.secs. 27,28,33, and 34.
	Thence I run
	N.89°57'W.on a true line bet.secs. 28 and 33.
	Descend gradually in cedars.
24.00	Leave cedars bearing N and S.
75.00	Re-enter cedars,bearing N and S.
78.00	Leave cedars,bearing N and S.
40.10	Stationary sandstone 40x50x30 ins.above ground,cut a cross (x) at exact cor.point,with ¼.on N.side of cross,for ¼ sec cor.and raise a mound of stone 2 ft.base,1½ ft.high N.of cor. Pits impracticable.
43.20	Bottom of hollow 30 ft.below sec.cor. drains SW. Ascend.
49.50	Top of ridge spur,30 ft.above hollow,projects SW. Descend.
55.50	Bottom of hollow 25 ft.below spur,drains SW. Ascend.
62.50	Top of ridge spur,25 ft.above hollow,projects SW. Descend.
68.50	Bottom of hollow 25 ft.below spur,drains SW. Ascend.
80.20	The cor.of secs. 28,29,32,and 33.
	Land broken and mountainous.
	Soil,3d.rate,stony.
	Timber,cedars on 27.00 chs.
	Sage brush;some grass.
	Mountainous or heavily timbered land on 80.20 chs.

	October,31st: At the cor.of secs. 28,29,32,and 33,I set of 13°59'S on the decl.arc,and,at 11h.44m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading 40° 37',which agrees with other data.
	Thence I run
	N.0° 1'W. bet.secs. 28 and 29.
	Ascend.
1.00	Top of sandstone precipice,25 ft.high bears NE and SW.
	Descend.
6.00	Bottom of hollow 50 ft.below top of precipice,drains SW.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	Ascend.
12.00	Top of ridge spur,60 ft.above hollow,projects SW.
	Descend.
26.50	Top of precipice,100 ft.deep,bears NE and SW. Descend.
29.50	Bottom of hollow 100 ft.below top of precipice,drains SW.
	Ascend.
34.00	Top of ridge spur,30 ft.above hollow,projects E. Descen .
39.00	Bottom of same hollow,drains SE.
40.00	Stationary sandstone 5x5x4 ft.above ground,cut a cross (x) at true cor.point,with ¼ on W side of cross,for ¼/se . cor. and raise a mound of stone 2 ft.base,1½ ft.high W o. cor. Pits impracticable.
41.50	Bottom of same hollow,drains SW. Ascend.
45.00	Bottom of tributary hollow,drains SE into last described hollow. Ascend.
59.00	Top of ridge spur,75 ft.above hollow,projects SE. Descend. Enter cedar and pinon timber.
64.50	Bottom of hollow 50 ft.below spur,drains SE. Ascend.
76.00	Top of ridge spur,40 ft.above hollow,projects SW. Descend.
79.00	Bottom of hollow,20 ft.below spur,drains SW. Ascend.
80.00	Stationary sandstone 30x24x20 ins.above ground,cut a cross (x) at true cor.point,with 2 notches on S and 4 notches on E sides of cross,for cor.of secs. 20,21,28 and 29,from which:
	A cedar 10 ins.diam.bears N.3°00'E. 14 lks.dist.marked T 2 S.R 23 E.S 21 B T.
	A pinon 15 ins.diam.bears S 22°00'E. 17 lks.dist.marked T 2 S.R 23 E.S 28 B T.
	A pinon 6 ins.diam.bears S.22°00'W. 27 lks.dist.marked T 2 S.R 23 E.S 29 B T.
	A pinon 12 ins.diam.bears N.52°00'W. 23 lks.dist.marked T 2 S.R 23 E.S 20 B T.
	Land mountainous.
	Soil,3d.rate,very rocky.
	Timber,cedars and pinon,on.21.00 chs.
	Sage brush;some grass.
	Mountainous land on 80.00 chs.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	S.89°57'E. on a random line bet.secs. 21 and 28.
40.00	Set temp.¼ sec.cor.
80.09	Intersect N and S line,2 lks.N of cor.of secs. 21,22,27, and 28.
	Thence I run
	N.89°56'W. on a true line bet.secs. 21 and 28.
	Ascend in cedars.
9.00	Top of ridge spur,50 ft.above cor. projects S. Descend.
20.00	Bottom of hollow,50 ft.below spur,drains S. Ascend.
30.50	Top of ridge spur,50 ft.above hollow,projects S then SW. Descend.
40.04½	Set a sandstone 12x10x8 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 8 ins.diam.bears N 26°00'W. 32 lks.dist.marked ¼ S 21 B T.
	A cedar 6 ins.diam.bears S 32°00'E.28 lks.dist.marked ¼ S 28 B T.
52.50	Bottom of hollow 100 ft.below spur,drains S 30° W. Ascend.
59.00	Top of ridge spur 75 ft.above hollow,projects S 30° W. Descend.
63.50	Bottom of hollow,50 ft.below spur,drains S 30° W. Ascend.
70.00	Top of ridge spur,150 ft.above hollow,projects SW. Descend.
80.09	The cor.of secs. 20,21,28 and 29.
	Land mountainous.
	Soil,3d.rate;stony.
	Timber,cedars on 80.09 chs.
	Mountainous or heavily timbered land on 80.09 chs.

	N.0° 1'W. bet.secs. 20 and 21.
	Ascend through cedar and pinon timber.
30.00	Top of reef 150 ft.above cor.bears NE and SW. Descend.
33.50	Top of precipice,30 ft.deep,bears NE and SW. Descend.
	Leave cedars and pinon.
40.00	Set a sandstone 20x18x9 ins.15 ins.in the ground,for ¼

SUBDIVISION OF T 2 S.R 23 E.

Chains

sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 t. base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.

50.50 Bottom of hollow,200 ft.below top of reef,drains SW. Ascend.

62.00 Top of ridge spur,100 ft.above hollow,projects SW. Descend;re-enter cedars.

68.50 Bottom of hollow 100 ft.below spur,drains SW. Ascend.

80.00 Set a sandstone 12x10x8 ins.8 ins.in the ground,for cor. of secs. 16,17,20,and 21. marked 3 notches on S;4 notches on E edges,from which

A cedar 6 ins.diam.bears N.32°00'E. 33 lks.dist.marked T 2 S.R 23 E.S 16 B T.

A cedar 6 ins.diam.bears S.51°00'E. 21 lks.dist.marked T 2 S.R 23 E.S 21 B T.

A cedar 8 ins.diam.bears S 41°00'W. 118 lks.dist.marked T 2 S.R 23 E.S 20 B T.

A cedar 6 ins.diam.bears N 34°00'W. 10 lks.dist.marked T 2 S.R 23 E.S 17 B T.

Land mountainous.

Soil,3d.rate;stony.

Timber,cedars and piñon pine on 51.50 chs.

Mountainous or heavily timbered land on 80.00 chs.

S.89°56'E.on a random line bet.secs. 16 and 21.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.01 Intersect N and S line 6 lks. S of cor.of secs. 15,16;21 and 22.

Thence I run

N.89°59'W. on a true line bet.secs. 16 and 21.

Over plateau on Diamond Mountain.

20.50 Leave plateau;descend precipitous slope;enter cedars.

33.50 Bottom of hollow 150 ft.below plateau,drains SW. Ascend

40.00$\frac{1}{2}$ Set a sandstone 20x12x6 ins. 15 ins.in the ground,for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N face,from which

A cedar 8 ins.diam.bears N.56°00'W. 10 lks.dist.marked $\frac{1}{4}$ S 16 B T.

Chains

A cedar 10 ins.diam.bears S 24°00'W. 9 lks.dist.marked ¼ S 21 B T.

61.50 Top of spur from plateau,50 ft.above hollow,projects SW. Descend.

65.00 Head of hollow drains SW. Ascend.

70.00 Top of spur from plateau,75 ft.above hollow,drains SW. Descend.

74.00 Bottom of hollow 100 ft.below spur,drains SW. Ascend.

80.01 The cor.of secs. 16,17,20,and 21.

Land mountainous.

Soil 3d.and 2d.rate,rocky and gravelly.

Timber,cedars on 59.51 chs.

Sage brush and grass on plateau.

Mountainous or heavily timbered land on 59.51 chs.

-----(October,31st.1906.

November,1st.:At 8h.14m.,a.m.,l.m.t., I set off 40°38' on lat.arc;14°15' S on decl.arc,and determine a meridian with the solar,at the cor.of secs. 16,17,20,and 21.

Thence I run

N.0°1'W. bet.secs.16,and 17.

Ascend through cedars.

5.00 Top of spur,from Diamond Mt.plateau,50 ft.above cor.projects SW. Descend.

20.00 Bottom of hollow,30 ft.below spur,drains SW. Ascend.

22.00 Leave cedars,bearing E and W.

33.50 Saddle in top of spur,from plateau,50 ft.above hollow,spur projects SW. Descend.

40.00 Set a sandstone 16x11x6 ins.11 ins.in the ground,for ¼ sec cor.marked ¼ on W face,and raise a mound of stone 2 ft. base,1½ ft.high W of cor. Pits impracticable.

51.00 Bottom of hollow 30 ft.below spur,drains SW.

Now ascend up W side of hollow.

80.00 Set a sandstone 12x10x8 ins. 8 ins.in the ground,for cor. of secs. 8,9,16,and 17,marked 4 notches on S;4 notches on

Chains

edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

Land mountainous.

Soil 2d.rate,gravelly.

Timber,cedars on S 22.00 chs.

Sage brush and grass on plateau.

Mountainous or heavily timbered land on 80.00 chs.

S 89°59'E.on a random line bet.secs. 9 and 16.

40.00 Set temp.¼ sec.cor.

80.06 Intersect N and S line 12 lks.S of cor.of secs. 9,10,15, and 16.

Thence I run

S.89°56'W.on a true line bet.secs. 9 and 16. Descend.

2.00 S Fork of Diamond Gulch (dry) drains SE. Ascend.over Diamond Mountaion plateau.

40.03 Set a sandstone 15x12x10 ins. 10 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and dig pits 18x18x12 ins. E and W of stone,3 ft.dist.and raise a mound of earth 3½ f. base,1½ ft.high N of cor.

51.00 Bottom of hollow 30 ft.below cor. drains NE. Ascend.

63.00 Road to Willow Springs bears NW and SE.

69.50 Leave plateau;descend precipitous slope.

79.50 Bottom of hollow 100 ft.below plateau,drains S. Ascend.

80.06 The cor.of secs. 8,9,16,and 17.

10 56
69 50

Land rolling and mountainous.

Soil,1st.and 3d.rate;sandy loam and rocky.

No timber.

Sage brush and grass.

Mountainous land on 10.56 chs.

N.0° 1'W. bet.secs. 8 and 9.

Ascend 150 ft.

6.50 Enter Diamond Mountain plateau,bears NE and SW.

8.00 Road to Willow Springs bears NW and SE.

SUBDIVISION OF T 2 S.,R 23 E.

Chains	
10.50	Descend precipitous N slope.
37.50	S Fork of Diamond Gulch,10 lks.wide,2 ft.deep,(dry) in bottom of hollow 150 ft.below rim of plateau,drains SE. Ascend.
40.00	Set a sandstone 14x10x6 ins.10 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	Ascend gradual S slope.
72.15	Road to Brown's Park bears W. and SE.
80.00	Set a sandstone 12x8x6 ins. 8 ins.in the ground,for cor. of secs. 4,5,8,and 9,marked 5 notches on S;4 notches on E edges,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
37.50 / 42.50	
	Land mountainous and rolling.
	Soil 1st.and 3d.rate;sandy loam and rocky.
	No timber.
	Sage brush and grass.
	Mountainous land on S.37.50 chs.

	N.89°56'E.on a random line bet.secs. 4 and 9.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
79.94	Intersect N and S line 38 lks.N of cor.of secs. 3,4,9, and 10.
	Thence I run
	N.89°52'W.on a true line bet.secs. 4 and 9. Descend.
30.10	Bottom of hollow 30 ft.below cor.drains NE.
36.50	Bottom of same hollow drains SE.
39.97	Set a sandstone 15x12x8 ins. 10 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
45.00	Same hollow,drains NE. Ascend gradually.
79.94	The cor.of secs. 4,5,8,and 9.
	Land rolling.
	Soil 1st.rate;sandy loam.
	No timber.
	Sage brush and grass.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	November,1st: At the cor.of secs. 4,5,8,and 9,I set off 14°18'S on the decl.arc,and,at 11h. 44m.,a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc the reading 40° 40'which agrees with other data.
	For reasons heretofore described,I run
	N.0° 1'W.on a true line bet.secs. 4 and 5. Ascend.
22.50	Top of ridge spur,50 ft.above cor.projects E. Descend.
34.00	Bottom of hollow 30 ft.below spur,drains E. Ascend.
40.00	Set a sandstone 14x10x8 ins.10 ins.in the ground,for ¼ sec.cor. marked ¼ on W face,and dig pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft. base,1½ ft.high W of cor.
46.00	Top of ridge spur,25 ft.above hollow,projects E. Descend.
54.20	Bottom of hollow 15 ft.below spur,drains E. Ascend.
78.10	Intersect N bdy.of Tp.at N.89°30'E. 4.42 chs.from the cor. of secs. 4,5,32,and 33,which is a sandstone 10x4x4 ins. above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a sandstone 12x10x6 ins.8 ins.in the ground,for closing cor.of secs. 4 and 5,marked 2 grooves on W;4 grooves on E,CC on S faces and raise a mound of stone 2 ft.base,1½ ft.high S of cor. Pits impracticable.
	I destroy all marks on old cor.pertaining to secs. 4 and 5.
	Land rolling.
	Soil 1st.rate;sandy loam.
	No timber.
	Sage brush and grass.

	From the cor.of secs. 31 and 32,on S bdy.of Tp.heretofore described
	I run
	N.0°2'W.bet.secs. 31 and 32.
	Ascend in cedars.
7.00	Top of ridge 150 ft.above cor.bears S 75°W.and N.75°E. Descend.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
14.00.	Bottom of hollow 100 ft.below ridge drains W. Ascend.
27.50	Enter bench,50 ft.above hollow,bears E and W.
35.00	Leave bench;descend.
40.00	Set a sandstone 12x12x8 ins.8 ins.in the ground,for ¼ sec.
	cor.marked ¼ on W face, from which
	A cedar 10 ins.diam.bears N.42°00'E. 44 lks.dist.marked
	¼ S 32 B T.
	A cedar 6 ins.diam.bears S 49°00'W.23 lks.dist.marked.
	¼ S 31 B T.
	In bottom of hollow 40 ft.below bench,drains W. Ascend.
49.50	Top of ridge spur,50 ft.above hollow,projects W. Descend.
55.00	Bottom of hollow 25 ft.below spur,drains S 80° W. Ascend.
59.00	Top of sandy ridge spur 100 ft.above hollow projects SW.
	Descend.
69.00	Bottom of stony hollow,30 ft.below spur,drains SW.Ascend.
80.00	Set a sandstone 20x18x12 ins. 15 ins.in the ground,for cor.
	of secs. 29,30,31,and 32,marked 1 notch on S;5 notches on
	E edges, from which
	A cedar 8 ins.diam.bears N.23°00'E. 30 lks.dist.marked
	T 2 S.R 23 E.S 29.B T.
	A cedar 12 ins.diam.bears S 54°00'E. 36 lks.dist.marked
	T 2 S.R 23 E.S 32 B T.
	A cedar 15 ins.diam.bears S 27°00'W.35 lks.dist.marked
	T 2 S.R 23 E.S 31 B T.
	A cedar 10 ins.diam.bears N.73°00'W. 60.lks.dist.marked
	T 2 S.R 23 E.S 30 B T.
	Land mountainous.
	Soil,3d.rate,rocky.
	Timber,cedars on 80.00 chs..
	Mountainous or heavily timbered land on 80.00 chs.

	East on a random line bet.secs. 29 and 32.
40.00	Set temp.¼ sec.cor.
80.14	Intersect N and S.line 9 lks.N of cor.of secs. 28,29,32,
	and 33. Bearing.

SUBDIVISION OF T 2 S.R 23 E.

Chains

Thence I run

N.89°56'W.on a true line bet.secs.29 and 32. Descend.

10.00 Bottom of hollow 100 ft.below cor. drains SW. Ascend.

Enter cedars.

28.00 Top of ridge spur,60 ft.above hollow,projects SW. Descend.

33.00 Bottom of hollow 50 ft.below spur,drains SW. Ascend.

40.07 Set a sandstone 12x10x8 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face, from which

A cedar 8 ins.diam.bears S 23°00'W. 25 lks.dist.marked ¼ S 32 B T.

A cedar 6 ins.diam.bears N 34°00'E.22 lks.dist.marked ¼ S 29 B T.

At SW point of ridge spur. Descend.

45.50 Bottom of hollow 20 ft.below ¼ sec.cor.drains SW. Ascend

54.50 Top of ridge spur 100 ft.above hollow,projects SW. Descend.

70.00 Bottom of stony hollow,150 ft.below spur,drains SW. Ascend.

71.00 Leave cedars,bearing N and S.

73.00 S point of ridge spur. Descend.

76.50 Bottom of hollow 30 ft.below point of spur,drains S. Ascend. Re-enter cedars.

80.14 The cor.of secs. 29,30,31,and 32.

Land mountainous.

Soil 3d.rate,stony.

Timber,cedars on 64.64 chs.

Sage brush on 15.50 chs.

Mountainous or heavily timbered land on 80.14 chs.

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

40.00 Set temp.¼ sec.cor.

64.15 Intersect W bdy.of Tp.5 lks.N of cor.of secs. 25,30,31, and 36,heretofore described.

Thence I run

N.89°58'E.on a true line bet.secs. 30 and 31.

Ascend through cedar timber.

14.00 Top of bench spur,50 ft.above cor. projects S. Descend.

19.00 Bottom of Hollow 25 ft.below spur drains N. Ascend.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
24.15	Set a sandstone 15x10x6 ins.10 ins.in the ground,for ¼ sec cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears N.20°15'W. 20 lks.dist.marked ¼ S 30 B T.
	A cedar 8 ins.diam.bears S 64°00'E.30 lks.dist.marked ¼ S 31 B T.
24.40	Right bank of box canyon;precipice 100 ft.deep,bears N and S. Descend.
26.15	Bottom of canyon drains S.
28.10	Foot of precipice 100 ft.high;left wall of canyon,bears N and S. Ascend.
32.00	Top of stony ridge spur,125 ft.above bottom of canyon, projects S. Descend.
35.75	Bottom of hollow 20 ft.below spur,drains S! Ascend.
41.50	Top of sandy ridge spur,20 ft.above hollow,projects S. Descend.
46.00	Bottom of hollow,20 ft.below spur,drains S. Ascend.
51.50	Top of ridge spur,20 ft.above hollow,projects S. Descend.
64.15	The cor.of secs. 29,30,31 and 32.
	Land mountainous.
	Soil 3d.rate,rocky.
	Timber,cedars on 64.15 chs.
	Mountainous or heavily timbered land on 64.15 chs.
	(November,1st.1906.

November,2d.:At 8h.14m.a.m.,l.m.t.,I set off 40° 37'on lat.arc;14°34'S on decl.arc,and determine a meridian with the solar at the cor.of secs.29,30,31 and 32.

Thence I run

N.0° 2'W.bet.secs. 29 and 30.

Ascend in cedars. and pinon.

26.00	Top of ridge spur 75 ft.above cor.projects SW. Descend.
31.50	Bottom of hollow 30 ft.below spur,drains SW. Ascend.
40.00	Set a limestone 16x14x8 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,from which

SUBDIVISION OF T 2 S.R 23 E.

Chains

A cedar 8 ins.diam.bears S 35°00'E. 50 lks.dist.marked ¼ S 29 B T.

A cedar 6 ins.diam.bears S 69°00'W. 25 lks.dist.marked ¼ S 30 B T.

43.00 Top of ridge spur,30 ft.above hollow,projects SW. Descend.

46.00 Bottom of hollow 20 ft.below spur,drains SW. Ascend.

50.00 Top of ridge spur 50 ft.above hollow,projects SW. Descend.

52.50 Bottom of hollow 25 ft.below spur,drains SW. Ascend.

65.00 Top of reef,150 ft.above hollow,bears SW 10 chs. NE.2 miles.

Leave cedars;and pinon; descend.

70.00 Top of precipice 30 ft.deep,bears NE and SW. Descend.

72.50 Bottom of hollow 200 ft.below reef,drains SW. Ascend.

80.00 Set a sandstone 12x8x6 ins. 8 ins.in the ground,for cor.of secs. 19,20,29,and 30,marked 2 notches on S;5 notches on E edges,and raise a mound of stone 2 ft,base,1½ ft.high W of cor. Pits impracticable.

Land mountainous.

Soil,3d.rate,stony.

Timber,cedar and pinon on S 65.00 chs.

Sage brush on N 15.00 chs.

Mountainous or heavily timbered land on 80.00 chs.

S.89°56'E.on a random line bet.secs. 20 and 29.

40.00 Set temp.¼ sec.cor.

80.05 Intersect N and S line 5 lks.S of cor.of secs. 20,21,28, and 29.

Thence I run

N.89°58'W.on a true line bet.secs. 20 and 29.

Descend in cedars, and pinon.

12.00 Bottom of hollow,75 ft.below cor.drains S 20° W. Ascend.

19.00 Top of ridge spur,150 ft.above hollow,projects S 10° W.

Descend;leave cedars. and pinon.

26.00 Bottom of hollow 25 ft,below spur,drains S. Ascend.

34.50 Top of ridge spur,30 ft.above hollow,projects S. Descend.

38.50 Bottom of hollow 50 ft.below spur,drains S. Ascend.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
40.02½	Set a sandstone 24x24x18 ins.18 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 3 ft.base,1½ ft.high N of cor. Pits impracticable.
60.00	Top of reef 200 ft.above hollow,bears NE and SW. Descend.
68.50	Top of precipice,30 ft.high bears NE and SW. Descend.
70.00	Bottom of hollow,150 ft.below reef,drains SW.Ascend.
80.05	The cor.of secs. 19,20,29,and 30.
	Land mountainous.
	Soil 3d.rate,rocky.
	Timber,cedars and pinon on E 19.00 chs.
	Sage brush on W 61.05 chs.
	Mountainous or heavily timbered land on 80.05 chs.

	S.89°58'W. on a random line bet.secs. 19 and 30.
40.00	Set temp.¼ sec.cor.
64.00	Intersect W bdy.of Tp.5 lks.S of cor.of secs. 19,24,25, and 30,heretofore described.
	Thence I run
	East on a true line bet.secs. 19 and 30.
	Over bench in cedars.
15.00	Leave bench;descend.
19.00	Bottom of hollow 100 ft.below bench,drains S. Ascend.
24.00	Set a sandstone 15x10x4 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, from which
	A cedar 6 ins.diam.bears S 65°00'W. 32 lks.dist.marked ¼ S 30 B T.
	A cedar 6 ins.diam.bears N.30°00'E. 33 lks.dist.marked ¼ S 19 B T.
40.00	Enter bench 100 ft.above hollow,bears N and S.
53.50	Leave bench;descend.
56.20	Bottom of hollow 75 ft.below bench,drains S. Ascend.
59.00	Top of ridge spur,75 ft.above hollow,projects S. Descend.
64.00	The cor.of secs. 19,20,29,and 30.
	Land mountainous.
	Soil 3d.rate,stony.
	Timber,cedars on 64.00 chs.

SUBDIVISION OF T 2 S.R 23 E.

Chains

Mountainous or heavily timbered land on 64.00 chs.

N.0° 2'W. bet.secs. 19 and 20.

Ascend over cedar covered bench.

20.00 Leave bench;descend;leave cedars.

30.50 Bottom of hollow 25 ft.below bench,drains SE. Ascend.

40.00 Set a sandstone 12x11x8 ins.8 ins.in the ground,for ¼ se . cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

On S edge of low sage brush bench;now ascend gradually.

50.00 Descend from bench;enter cedars.

54.00 Bottom of hollow 90 ft.below bench,drains SE. Ascend.

80.00 Set a sandstone 12x12x8 ins.8 ins.in the ground,for cor. of secs. 17,18,19,and 20,marked 3 notches on S;5 notches on E edges,from which

A cedar 6 ins.diam.bears N.18°00'E. 37 lks.dist.marked T 2 S.R 23 E.S 17 B T.

A cedar 8 ins.diam.bears S 63°00'E. 29 lks.dist.marked T 2 S.R 23 E. S 20 B T.

A cedar 10 ins.diam.bears S.56°00'W. 46 lks.dist.marked T 2 S.R 23 E.S 19 B T.

A cedar 15 ins.diam.bears N.59°00'W. 21 lks.dist.marked T 2 S.R 23 E.S 18 B T.

Land mountainous.

Soil;3d.rate;rocky.

Timber,cedars on 50.00 chs.

Sage brush on 30.00 chs.

Mountainous or heavily timbered land on 80.00 chs.

November,2d.: At the cor.of secs. 17,18,19,and 20,I set off 14°38'S.on the decl.arc,and,at 11h.44m.,a.m.,l.m.t.,observe the sun on the meridian,and obtain on the latitude arc,t e reading 40°38',which agrees with other data.

Thence I run

S.89°58'E.on a random line bet.secs. 17 and 20.

40.00

SUBDIVISION OF T 2 S.R 23 E.

Chains

40.00 Set temp.¼ sec.cor.

80.08 Intersect N and S line 9 lks.N of cor.of secs. 16,17,20, and 21.

Thence I run

N.89°54'W.on a true line bet.secs.17 and 20.

Ascend in scattering cedars.

4.00 Top of ridge spur,50 ft.above cor.projects SW. Descend.

7.00 Bottom of hollow 50 ft.below spur,drains SW. Ascend.

18.50 Top of spur from plateau of Diamond Mt. 50 ft.above holl[illegible] projects S. Descend.

34.50 Bottom of hollow 30 ft.below spur,drains S. Ascend.

40.04 Set a limestone 12x12x4 ins. 8 ins.in the ground,for ¼ sec cor. marked ¼ on N face, from which

A cedar 6 ins.diam.bears N.9°00'E. 14 lks.dist.marked ¼ S 17 B T.

A cedar 5 ins.diam.bears S 2°00'W. 36 lks.dist.marked ¼ S 20 B T.

40.50 Top of ridge spur,40 ft.above hollow,projects S. Descend.

45.25 Bottom of hollow 40 ft.below spur,drains S. Ascend.

54.00 Top of ridge spur,50 ft.above hollow,projects S. Descend

58.50 Bottom of hollow 50 ft.below spur,drains S. Ascend.

65.00 Top of ridge spur,100 ft.above hollow,projects S. Descend

74.50 Bottom of hollow 150 ft.below spur,drains S. Ascend.

80.08 The cor.of secs. 17,18,19,and 20.

Land mountainous.

Soil,3d.rate,rocky.

Timber,scattering cedars on 80.08 chs.

Mountainous land on 80.08 chs.

West on a random line bet.secs. 18 and 19.

40.00 Set temp.¼ sec.cor.

64.10 Intersect W bdy.of Tp.at cor.of secs. 17,18,19,and 24,hereto fore described.

Thence I run

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

SUBDIVISION OF T 2 S.R 23 E.

Chains	Descend
1.25	Bottom of hollow 25 ft.below cor.drains SW. Ascend.
7.00	Top of spur from hill 30 ft.above hollow,projects SW. Desc Descend.
10.00	Head of hollow,drains SW. Ascend.
19.00	Top of spur from hill,30 ft.above hollow,projects SW. Descend.
24.10	Set a limestone 14x10x6 ins.10 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
31.00	Bottom of hollow 100 ft.below spur,drains SW. Ascend.
58.50	Top of spur from Diamond Mt.plateau,150 ft.above hollow, projects SW. Descend;enter cedars.
64.10	The cor.of secs.17,18,19,and 20.
	Land mountainous.
	Soil,3d.rate,stony.
	Timber,cedars on E.5.60 chs.
	Sage brush;some grass.
	Mountainous land on 64.10 chs.

	N.0°2'W.bet.secs.17 and 18.
	Ascend through cedars.
9.50	Top of spur from Diamond Mt.plateau,100 ft.above cor.projects SW. Descend.
30.00	Bottom of hollow 100 ft.below spur,drains SW. Ascend.
36.50	Leave cedars.
40.00	Set a sandstone 12x11x8 ins. 8 ins.in the ground,for ¼ sec. cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
47.00	Top of ridge spur,50 ft.above hollow,projects SW. Descend.
52.50	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
80.00	Set a sandstone 14x10x6 ins. 10 ins.in the ground,for cor.of secs. 7,8,17,and 18,marked 4 notches on S;5 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	Soil 2d.rate,gravelly.
	Timber,cedars on S 36.50 chs.
	Sage brush and grass.
	Mountainous land on 80.00 chs.

	S 89°54'E.on a random line bet.secs. 8 and 17.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.02	Intersect N and S line 7 lks.S of cor. of secs. 8,9,16, and 17.
	Thence I run
	N.89°57'W.on a true line bet.secs. 8 and 17. Ascend.
7.50	Top of spur from Diamond Mt.plateau,150 ft.above cor. projects SW. Descend.
20.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
30.00	Top of spur from Diamond Mt.plateau,150 ft.above hollow,projects SW. Descend.
39.80	Bottom of hollow 150 ft,below spur,drains S then SW. Ascend.
40.01	Set a sandstone 12x11x8 ins. 8 ins.in the ground,for $\frac{1}{4}$ sec cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.ba $1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
51.00	Top of spur from Diamond Mt.plateau,75 ft.above hollow, projects S. Descend.
64.00	Bottom of hollow 75 ft.below spur,drains S then SW. Ascend.
71.00	Top of spur from plateau,100 ft.above hollow,projects S. Descend.
80.02	The cor.of secs. 7,8,17,and 18.
	Land mountainous.
	Soil 2d.rate,gravelly.
	No timber.
	Sage brush ;some grass.
	Mountainous land on 80.02 chs.

	West on a random line bet.secs. 7 and 18.

SUBDIVISION OF T 2 S.R 23 E.

Chains

40.00 Set temp.¼ sec.cor.

64.10 Intersect W bdy.of Tp.12 lks.S of cor.of secs. 7,12,13, and 18.

Thence I run

S 89°55'E.on a true line bet.secs. 7 and 18. Ascend.

5.00 S point of ridge spur,25 ft.above cor. Descend.

13.00 Bottom of hollow 100 ft.below spur,drains S. Ascend.

24.10 Set a limestone 12x11x8 ins.8 ins.in the ground,for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

Over broken S slope.

35.00 Bottom of hollow 75 ft.below general level of slope,drains S. Ascend.

48.50 Top of spur from plateau,40 ft.above hollow,projects S. Descend.

53.00 Bottom of hollow 30 ft.below spur,drains S. Ascend.

64.10 The cor.of secs. 7,8,17,and 18.

Land mountainous.

Soil 2d.rate,gravelly.

No timber.

Sage brush and grass.

Mountainous land on 64.10 chs.

(November,2d.1906.

November,3d,: At 8h.14m.,a.m.,l.m.t., I set off 40°39'on lat.arc;14°53'S on decl.arc,and determine a meridian with the solar at the cor.of secs. 7,8,17,and 18.

Thence I run

N.0°2'W. bet.secs. 7 and 8.

Ascend along broken slope.

22.50 Bottom of hollow 50 ft.below general level of slope,drains SW. Descend.

35.00 Top of spur from plateau,200 ft.above hollow,projects SW. then S. Descend.

39.80 Head of hollow drains SW. Ascend.

SUBDIVISION OF T 2 S.R 23 E.

Chains	
40.00	Set a sandstone 14x12x6 ins. 10 ins.in the ground,for ¼ sec cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
43.00	Enter Diamond Mountain plateau,100 ft.above head of hollow, bears NW and SE. Now across same.
50.00	Road to Willow Springs bears NW and SE.
80.00	Set a sandstone 18x14x5 ins. 12 ins.in the ground,for cor. of secs. 5,6,7,and 8,marked 5 notches on S;5 notches on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	John S.Hacking's cabin bears N.40°30'W.
	Willow Spring bears N.42°00'W.
	Land mountainous and rolling plateau.
	Soil 2d.and 3d.rate,gravelly and rocky.
	No timber.
	Sage brush and grass.
	Mountainous land on S 43.00 chs.

	S.89°57'E.on a random line bet.secs. 5 and 8.
40.00	Set temp.¼ sec.cor.
80.00	Intersect N and S line 7 lks.S of cor.of secs. 4,5,8,and 9
	Thence I run
	West on a true line bet.secs. 5 and 8. Ascend.
11.00	Top of ridge spur,20 ft.above cor.projects S. Descend.
40.00	Set a sandstone 13x9x6 ins.8 ins.in the ground for ¼ sec. cor.marked ¼ on N face,and raise a mound of stone 2 ft.bas 1½ ft.high N of cor. Pits impracticable.
40.20	Bottom of hollow 15 ft.below spur,drains S. Ascend.
45.00	Top of ridge spur,30 ft.above hollow,projects S. Descend.
48.00	Bottom of hollow 15 ft.below spur,drains S. Ascend.
51.50	Road to Brown's Park,bears NW and SE. on top of ridge spur 25 ft.above hollow,projects S. Descend.
61.50	Dry bed of S Fork of Diamond Gulch,in bottom of hollow 50 below spur,drains SE. Ascend.
80.00	The cor.of secs. 5,6,7,and 8.

Chains

Land rolling.

Soil 1st.rate;gravelly loam.

No timber.

Sage brush and grass.

Rolling land on 80.00 chs.

November 3d.: At the cor.of secs. 5,6,7,and 8, I set off 14°57'S on the decl.arc,and,at 11h.,44m.,a.m.,l.m.t., observe the sun on the meridian;and obtain on the latitude arc,the reading 40°40';which agrees with other data.

Thence I run

N.89°55'W.on a random line bet.secs. 6 and 7.

40.00 Set temp.¼ sec.cor.

63.95 Intersect W bdy.of Tp.12 lks.N of cor.of secs. 1,6,7,and 12, heretofore described.

Thence I run

East on a true line bet.secs. 6 and 7. Ascend.

14.00 Top of ridge spur,50 ft.above cor.projects S. Descend.

20.00 Bottom of hollow 40 ft.below spur,drains S. Ascend.

23.95 Set a sandstone 12x8x6 ins. 8 ins.in the ground,for ¼ sec. cor. marked ¼ on N face,and raise a mound of stone 2 ft. base,1½ ft.high N of cor. Pits impracticable.

27.00 Top of ridge spur 30 ft.above hollow,projects S. Descend.

37.50 Road bears N and S. in bottom of hollow,50 ft.below spur, hollow drains S. Ascend.

45.00 Top of ridge spur,100 ft.above hollow,projects SE. Descend.
57.00 Road to Willow Springs bears NW and SE.
63.95 The cor.of secs. 5,6,7,and 8.

Land broken.

Soil,2d.rate,gravelly.

No timber.

Sage brush and grass.

Broken land on 63.95 chs.

For reasons heretofore described, I run
N.0°2'W.on true line bet.secs. 5 and 6.

13.00 Dry bed of S Fork of Diamond Gulch,in bottom of hollow 30

SUBDIVISION OF T 2 S.R 23 E.

Chains	
	ft.below cor. drains SE. Ascend.
20.00	Road to Brown's Park bears E and W.
40.00	Set a sandstone 15x10x7 ins.10 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft. base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.
	John S.Hacking's cabin bears N.78°30'W.
	Willow Spring bears N.81°30'W.
40.20.	Bottom of hollow 20 ft.below $\frac{1}{4}$ sec.cor.drains SW. Ascend.
62.50	Top of ridge 150 ft.above hollow bears E and W. Descend.
77.30	Intersect N bdy.of Tp.at N.89°33'E. 3.38 chs. from cor.of secs. 5,6,31,and 32.,which is a sandstone 8x24x10 ins.above ground,marked and witnessed as described by the surveyor general.
	At intersection,set a sandstone 18x12x6 ins. 12 ins.in the ground,for closing cor.of secs.5 and 6,marked 1 groove on W;5 grooves on E;CC on S faces,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high S of cor. Destroy marks on old cor. pertaining to secs.5 and 6.
	Land broken.
	Soil 1st.rate,sandy loam.
	No timber.
	Sage brush and grass.
	Broken land on 77.30 chs.
	(November,3d.1906.

GENERAL DESCRIPTION.

This township contains several varieties of soil,from bro sandy loam on top of Diamond Mt.plateau,red clay and sandy soils in the southwestern portion and alkaline chaly soil along the old mail road in south part of township.

The portion embraced in the plateau is rolling land covered with sage brush and grass,furnishing excellent pastu age for stock,the southwestern portion is extremely broken being composed of spurs and intervening hollows extending from the rim of the plateau;this part is for the most par covered with a more or less dense growth of cedar and pino

SUBDIVISION OF T 2 S.R 23 E.

Chains

There are no perennial streams within the limits of this t township,there are,however,a sufficient number of spring throughout the township to furnish abundance of good wat r for grazing purposes.

There are no indications gold,silver,lead,copper,iron,cinnabar,asphaltum or the salines in this township;ther are slight indications of coal of an inferior quality in the SE¼ of sec.33,which is not of such quantity or quality as to be of any commercial value.

John S.Hacking has a desert entry in Sec.6,upon which he has built a log cabin 16x18 ft,with dirt roof,constructed about ½ mile of irrigating ditches from Willow Spring,from which he waters grass for grazing purposes,value of improvements $400.00

Andrew Murray has a log cabin and about ½ mile of pole fence in sec. 10,value of improvements:-$250.00

T.W.Murray has a log cabin on sec.10 value $200.00

Neither of the settlers in sec.10 cultivate any of the land, depending wholly on grazing the surrounding lands.

Dry farming has been tried by John Siddoway,in Sec.23, previously surveyed,with considerable degree of success.

Edgar F. Nammon

U.S.Deputy Surveyor.

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AL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of T. 2 S., R. 23 E., S. L. B. & M., Utah showing the respective capacities in which they acted:

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

~~*Moundman.*~~

Bert Shisler, *Axman.*

~~*Axman.*~~

Bradner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of T. 2 S., R. 23 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 9th day of August, 1907. ~~, 189~~

SEAL

Ward E. Pack Jr

Notary Public.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair, United States Surveyor General for Utah, bearing date of the 19th day of December, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivisional lines of T. 2 S. R. 23 E.,

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

Edgar F. Harmston
United States Deputy Surveyor

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th. day of August, 1907.

Jas. O. Hackney
CLERK, FOURTH JUDICIAL DISTRICT COURT,
UINTAH COUNTY, UTAH.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11, 1908.

The foregoing field notes of the survey of the Subdivisional lines in Township No. 2 South, Range No. 23 East of the Salt Lake Base and Meridian, Uta

executed by Edgar F. Harmston under his contract No. 235, dated December 19, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

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

_____
United States Surveyor General

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4—679.

BOOK A-339

FIELD NOTES

OF THE SURVEY OF THE

North Boundary

of

T. 3 S. – R. 22 E.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Adolphe Jessen and Edgar F. Harmston, United States Deputy Surveyor,

Under ~~this~~ Contract No. 235, dated December 19th, 1899

Survey commenced July 25th, 1900

Survey completed July 28th, 1900

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high	5.09.95
Low	13.75
Clear	9.05

5.03.70

NAMES AND DUTIES OF ASSISTANTS.

Charley Fox chainman

John Holmes "

Josiah Simons Moundsman

Albert Kone Axeman

Craig Harmston Flagman

For preliminary affidavits see book A Tp 3 S R 21 E

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BOOK A-339

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, ... 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

.....

North Boundary of T. 3 S. - R. 22 E.

Survey commenced July 25th 1900.

Beginning at the cor. to Tps. 2 & 3 S. Rgs 22 and 23 E. on the Ashley Guide Meridian in approximate Lat 40° 35' 38" N. Long 109° 23' 46" W. said corner being re-established in this survey I examine the adjustments of the transit carefully and then test the Solar apparatus by comparing the results of observations on the sine made during A.M and P.M. hours with a true Meridian determined by observations on Polaris, proceeding as follows:

July 25th 1900 - At 4 h. - P.M. - l.m.t I set of 40° 36.' N. on the lat. arc; 19° 37' N. on the decl. arc and determine with the Solar a true Meridian and mark a point thereof by pencil mark No 1 on a stake set firmly in the ground 5 chs. N. of cor. -

At 11 h. 13 m. P.M. l.m.t I observe Polaris at eastern elongation in accordance with instruction in the Manual and mark the line thus determined by a track driven in a wooden plug set in the ground five chs. N. of my station.

July 25th 1900:

July 26th 1900 - At 7 h. a.m. l.m.t I lay off the azimuth of Polaris 1° 36' to the west and mark the Meridian thus determined by making pencil mark No 2 on the stake set yesterday afternoon on which the true Meridian falls 0.25 ins. west of the mark determined by the Solar

At 7 h 30 m a.m. l.m.t I set off 40° 36.' N. on the lat. arc; 19° 29' N. on the decl. arc and determine with the Solar a true Meridian and mark a point thereof by making pencil mark No 3 on the stake already set 5 chs N. of my station. This mark falls 0.3 ins. W. of the true Meridian established by the Polaris observation. -

chs. The Solar apparatus by P. M. and A. M. observations defines positions for true Meridian respectively 0° 13" E and 0° 16" W of the true Meridian established by the Polaris observations, therefore I conclude the adjustments of the instrument are satisfactory. The magnetic bearing of the true Meridian at 7:30 a.m. is N. 15° 59' W. which reduced by the tables on page 100 of the Manual give the mean magnetic decl. 15° 53' East

Thence I run

West on a random line along the N. Bdy of T. 3 S. R. 22 E. setting temp 1/4 sec. and sec. cors at intervals of 40 chs. — At 483.70 chs I reach a point 9.05 chs. N. of the closing cor. of T. 3 S. — Rgs. 21 & 22 E. established in this survey.

Then, conforming to "Special Instructions" accompanying this contract, I abandon my random line and beginning at said closing cor run East on true line.

July 24th 1900 — At 7 h. a.m. L. m. t I set up 40° 36' N. on the lat. arc, 19° 16' N. on the decl. arc and determine with the Solar a true Meridian at the closing cor. to T. 3 S. — Rgs. 21 & 22 E. heretofore described

Thence I run

East on a true line
along the N. Bdy of sec. 6
and the S. Bdy of the Uintah Forest Reserve

In broad hollow drains N. 80° E.

3.00 Wash 15 lks. wide 5 ft. deep drains N. 80° E.:

14.00 leave hollow drains N.E. Run over small broken ridges bearing North into Main Hollow Enter scattering cedars

43.70 Set a white sandstone 20 x 18 x 5 ins. 15 ins. in the ground for 1/4 sec cor marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable

A cedar 8 ins. in diam. bears S. 80° 30' W. 60 lks. dist marked 1/4 S. 6 B.T.

66.00 Leave scattering cedars

79.00 Wash 30 lks. wide 6 ft deep drains S.E.

North Boundary of T. 3 S. R. 22 E.

chs.	
80.55	Cliff 40 ft. high bears N. & S.
81.20	Ridge 100 ft. high bears N. 10.00 chs and S. 2.00 chs.
83.70	Set a Gypsum stone 24 x 18 x 4 ins. 18 ins. in the ground for closing cor to secs. 5 & 6 on N. Bdy of Tp. marked C. C. on S. – U. F. R. (for Uintah Forest Reserve) on N. 5 grooves on E. and 1 on W. faces. and raised a mound of stone 2 ft. base 1½ ft. high S. of cor.
6770 / 7680	Pits impracticable
	Land hollow and broken N. slope
	Soil 3rd rate, rocky.
	Scattering cedar on 52.00 chs.
	Mountainous on E. 67.70 chs

East on a true line
along N. Bdy of sec. 5
and S. Bdy Uintah Forest Reserve

0.50	Cliff 40 ft. deep bears N. & S.
6.50	Wash 25 lks. wide 6 ft. deep drains N.E.
12.50	Same Wash drains S.E.
19.00	Ridge 40 ft high bears N.W. 10.00 chs. S.E. 2 chs.
32.00	Enter dense willow brush
32.60	Brush Creek 25 lks. wide 1 foot deep runs S.E.
38.00	Leave willow brush – Enter cultivated ground
40.00	Set a sandstone 18 x 10 x 5 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
40.25	Leave cultivated ground – Ascend S.W. slope
50.50	Road bears N. & S.
52.00	Ridge spur 100 ft. high bears S. 5.00 chs.
56.75	Hollow 75 ft. deep drains S.
59.50	Ridge spur 40 ft. high bears S.
65.00	Hollow 40 ft. deep drains S.
78.50	Ascend precipitous W. slope
80.00	Set a sandstone 24 x 16 x 3 ins. 18 ins. in the ground for closing cor. to secs. 4 & 5 marked C. C. on S. – U. F. R. on N. 4 grooves on E. and 2 on W. faces
7775 / 2.25	

chs

and raised a mound of stone 2 ft base 1½ ft. high S. of cor. – Pits impracticable –
Land broken ridges and Creek bottom
Soil 3rd and 1st class, rocky or alluvial
Dense willow undergrowth on 6.00 chs
Mountainous or dense undergrowth on 77.75 chs

July 27th 1900 – At this cor. I set off 19° 13' N. on the decl. arc and at 12 h. m. l. m. t observe the sun on the Meridian the resulting lat. is 40° 36' N.

East on a true line
on N. Bdy of sec. 4
and S. Bdy of the Uintah Forest Reserve

Ascend precipitous W. slope
0.75 Enter broken plateau 50 ft. high slopes south stream with large sandstone bowlders and pieces of petrified wood.
5.50 Sandstone column 20 ft. high on line
40.00 Falls on solid sandstone ledge – At the exact cor. point I mark a cross (+) for 1/4 sec. cor. – On N. side of said cross (+) I mark 1/4 and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
70.50 Precipitous Ravine 50 ft. deep drains S.
80.00 Falls on solid sandstone ledge – At the exact cor. point I make a cross (+) for closing cor. to sec. 3 & 4 and mark also 3 grooves on E. & W. sides of said cross while on N. side of cross I mark U.F.R for Uintah Forest Reservation and C.C. on S. side of same and raised a mound of stone 2 ft base 1½ ft. high S. of cor. Pits impracticable
Land high broken plateau
Soil 4th rate mostly sandstone ledges
Some scattering scrubby cedars
Mountainous on 80.00 chs

North Bdy. T. 3 S. R. 22 E.

chs.	
	East on true line on N. Bdy of sec. 3 and S. Bdy of the Uintah Forest Reserve
	Over broken sandstone ledges in scattering cedars which gradually become dense
35.00	Ravine 80 ft. deep drains S. 15° W.
40.00	Set a sandstone 24 x 14 x 3 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raised a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable A cedar 8 ins. diam. bears S. 12°45' E. 86 lks. dist. marked 1/4 T. 3 B.T.
75.50	Ravine 75 ft. deep drains S.
80.00	Set a limestone 13 x 10 x 8 ins. 9 ins. in the ground for closing cor. to secs. 2 & 3 marked C. C. on S., U. F. R. on N. – 2 grooves on E. and 4 grooves on W. faces and raised a mound of stone 2 ft. base 1½ ft. high S. of cor. – Pits impracticable A cedar 15 ins. diam bears S. 87° E. 92 lks. dist marked T. 3 S. R. 22 E. S. 2 B.T. A cedar 12 ins. diam bears S. 41°30' W. 80 lks. dist marked T. 3 S. R. 22 E. S. 3 B.T. Land high broken Plateau Soil 4th rate very rocky – Cedars scattering or dense on 80.00 chs Mountainous on 80.00 chs
	July 28th 1900 – At 7 h. a.m. – L. m. t. I set off 40°36' N. on the lat. arc, 19°03' on the decl. arc and determined with the Solar a true Meridian at the cor. to secs. 2 & 3 on N. Bdy. of Tp. Thence I run East on true line on N. Bdy of sec 2 and S. Bdy of the Uintah Forest Reserve
18.00	Ridge 150 ft. high bears N. & S.

[illegible]

[illegible]
[illegible] of Cottonwood [illegible] ft. [illegible]
[illegible] in the ground
[illegible]
[illegible]
[illegible]
[illegible] of Cottonwood [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] cedar post 3 ft. long 4 ins square 24 ins
in the ground for closing cor. to secs. 1 & 2 marked
[illegible] on S, M.T. [illegible]
on E, [illegible] on W. with 1 groove on S. and 5 on W.
faces; dug pits 24 x 18 x 12 ins. diagonally on each
line S.E.W. and N of post 3 ft. dist. and raised
a mound of earth 4 ft. base 2 ft. high N of cor.
[illegible] 113 [illegible]
[illegible] B.T.
[illegible]
[illegible]
[illegible] rocky.
[illegible]
[illegible]

[illegible]
[illegible] of sec. 1
[illegible] Forest Reserve

[illegible]
[illegible]
[illegible]
[illegible] in the ground
[illegible]
[illegible]

N. Bdy of T. 3 S. R. 22 E

Chs.	
	Pits impracticable
41.50	Road bears N.E. & S.W.
54.50	Little Brush Creek 10 lks. wide 3 ins. deep flows S.
58.00	Enter Mrs. Jones Lucerne field
63.00	Leave same – Fence bears N. & S.
68.50	Gully 8 ft. deep drains S.W.
70.50	Ascend W. slope – Enter cedars
80.00	Intersect the East Bdy of this Tp. which is part of the Ashley Guide Meridian 9.05 chs S. of the cor. to Tps. 2 & 3 S. Rs. 22 & 23 E established in this survey.
24.50 / 55.50	From said cor. I obliterate all marks pertaining to R. 22 E. and at point of intersection set a sandstone 20 x 12 x 10 ins. 15 ins. in the ground for NE. cor. of T. 3 S. R. 22 E. marked with 6 notches on S & W. edges together with U.F.R. on N.W. face
	from which
	A cedar 12 ins. diam bears S. 22° W. 58 lks. dist. marked T. 3 S. R. 22 E. S. 1 B.T.
	Land broken
	Soil 2nd rate rocky or sandy loam
	Dense cedars on 24.50 chs.

July 28th 1900

N. Bdy of T. 3 S. R. 22 E.

Boundaries of T. 3 S. R. 22 E.

Latitudes, Departures and closing errors

Line Designated	True Bearing	Distance Chs.	Latitude North chs.	Latitude South chs	Departure East chs	Departure West chs
East Bdy or Ashley Guide Mer	North	470.95	470.95			
North Bdy	West	483.70				483.70
West Bdy	South	470.93		470.93		
South Bdy	East	484.08			484.08	
Emergency						.62
			470.95	470.93	484.08	484.32
			470.93			484.08
	Error in Lat. =		0.02	Error in Dep		0.24

For general description see end of field notes of the subdivisions of this Tp.

Edgar F. Harmston
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 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.*

.....

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Hamilton, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General, for the District of Utah, bearing date of the 19th day of December, 1899, 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 District of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the East & West Bds. N. Bdy. Tp. 4 S. R. 22 E. East Bds. Tp. 4 S. R. 23 E. W. & S. Bds. Tp. 4 S. R. 24 E. fractional S. Bdy. Tp. 2 S. R. 23 E. & N. Bdy. Tp. 3 S. R. 22 E. of the Salt Lake Base & 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 District 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.

Edgar F. Hamilton
United States Deputy Surveyor.

Subscribed by said Edgar F. Hamilton and sworn to before me this 23 day of May 1901, ~~189~~

SEAL

Peter Hansen
County Clerk
Uintah Co. Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, 189

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

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

.....
United States Surveyor General

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

.....
United States Surveyor General

6—151

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Adolphe Jensen and Edgar F. Harmston, United States Deputy Surveyors, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 E.; E. & N. Bdys. T. 4 S. R. 23 E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac'l. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S. R. 22 E. of the Salt Lake Base and Meridian, Utah.

showing the respective capacities in which they

Charley Fox, *Chainman.*

John Holmes, *Chainman.*

Josiah Simms, *Moundman.*

, *Moundman.*

Albert Kane, *Axman.*

, *Axman.*

Craig Harmston, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Adolphe Jensen and Edgar F. Harmston, United States Deputy Surveyors, in surveying all those parts or portions of the

E. and N. Bdys. T. 3 S. R. 21 E.; N. Bdy. T. 4 S. R. 22 E.; E. & N. Bdys. T. 4 S. R. 23 E.; W. E. & S. Bdys. T. 3 S. R. 24 E.; frac'l. S. Bdy. T. 2 S. R. 23 E.; N. Bdy. T. 3 S. R. 22 E. of the Salt Lake Base and Meridian, Utah.

of the meridian, of, which are represented in the foregoing field notes as having been surveyed by ~~him~~ their and under ~~his~~ their 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

Charley Fox, *Chainman.*

John Holmes, *Chainman.*

Josiah Simms, *Moundman.*

, *Moundman.*

Albert Kane, *Axman.*

, *Axman.*

Craig Harmston, *Flagman.*

Subscribed and sworn to before me this 10th day of August, 1900

SEAL

O. F. Gable
Notary P.

MY COMMISSION EXPIRES FEB 23, 1903

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BOOK A-339

X.

FIELD NOTES

OF THE SURVEY OF THE

H.J.B.

SUBDIVISION LINES OF

TOWNSHIP 3 SOUTH

RANGE 22 EAST

Of the SALT LAKE BASE AND *Meridian,*

U T A H,

AS SURVEYED BY

Edgar F.Harmston, *United States Deputy Surveyor,*

Under his Contract No. 235, *dated* December 19th, 1899, ~~190~~

Survey commenced October 19th, *190*6.

Survey completed October 25th, *190*6.

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Sagebr 19.72 28 ✓
Com 4.77 86 ✓
Clay 19.94 ✓

44.70 16

NAMES AND DUTIES OF ASSISTANTS.

Charles L.Bailey	Chainman.
Craig Harmston,	Chainman.
Mellette Harmston,	Moundman.
Bert Shisler,	Axman,
Bradner Bailey,	Flagman.

Volume
#
R0339

BOOK A-339

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PRELIMINARY OATHS OF ASSISTANTS.

We, Charles L. Bailey and Craig Harmston, 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 the subdivision lines of T.3 S., R.22 E., S.L.B.& M., Utah.

Charles L. Bailey, Chainman.
Craig Harmston, Chainman.

Subscribed and sworn to before me this 10th. day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public.

~~We~~, I, Mellette Harmston, 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 the subdivision lines of T.3 S., R.22 E., S.L.B.& M., Utah.

Mellette Harmston, Moundman.
~~, Moundman.~~

Subscribed and sworn to before me this 10th. day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public.

~~We~~, I, Bert Shisler, 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~~ me to the best of ~~our~~ my skill and ability, in the survey of the subdivision lines of T.3 S., R.22 E., S.L.B.& M., Utah.

Bert Shisler, Axman.
~~, Axman.~~

Subscribed and sworn to before me this 10th. day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public.

I, Bradner Bailey, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the subdivision lines of T.3 S., R.22 E., S.L.B.& M., Utah.

Bradner Bailey, Flagman.

Subscribed and sworn to before me this 10th. day of August, 1906. ~~, 189~~

SEAL

Ward E. Pack Jr
Notary Public.

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SUBDIVISION OF T.3 S.R 22.E.

Chains

Survey commenced October,19th.1906,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 latitude and declination arcs.

I examine the adjustments of the transit,and find the levels and line of collimation in adjustment;then,to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.,hours with a meridian determined by observations on Polaris,I proceed as follows:-

At the cor.of secs.1,2,35,and 36,on the South Boundary of Tp.and previously described;in lat.40°30'25,N.;long. 109°24'54" W.

At 5h.38m.,a.m.,by my.watch,which is 3m.fast of l.m.t., I observe Polaris at western elongation in accordance with Manual of Instructions,and mark a point in the line thus determined,on a peg driven in the ground 5 chs.N.of my station.

October,19th: At 6h.0m.,a.m.,l.m.t., I lay off the azimuth of Polaris 1°34' to the east and mark the meridian thus determined,by driving a nail in a peg set 5 chs.N. of my station.

At 7h.45m.,a.m.,l.m.t., I set off 40°30' on lat.arc; 10°07' S.on decl.arc;and mark a point in the meridian determined with the solar,by a nail driven in the peg already set 5 chs.N.of my station;this mark falls 0.03 ins. east of the meridian established by Polaris observation.

The solar apparatus by a.m., observations defines positions for meridiansabout 0'1" east of the meriaian established by the Polaris observation;therefore,I con-

SUBDIVISION OF T.3 S.R 22 E.

Chains	
	-clude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 7h.45m.;a.m., is 15°45'W. the angle thus determined gives the mag.decl. 15°45'E.

	From the cor.of secs. 1,2,35,and 36,on S bdy.of Tp.heretofore described,I run
	N.0°1'W. bet.secs. 35,and 36.
	Descend over rolling lands.
4.50	Bottom of hollow,25 ft.below cor.drains NE.
	Ascend.
10.00	Top of ridge spur,25 ft.above hollow,projects NE.
	Descend.
20.00	Bottom of hollow,25 ft.below spur,drains SE.
	Ascend.
25.00	Top of ridge spur,20 ft.above hollow,projects E.
	Descend.
34.00	Bottom of hollow,25 ft.below spur,drains E.then SE.
40.00	Set a limestone 14x12x10 ins.9 ins.in the ground,for ¼ sec. cor.marked ¼ on W.face,and raise a mound of stone 2 ft. base,1½ ft.high W.of cor. Pits impracticable.
46.50	Top of ridge spur,30 ft.above hollow,projects E.
	Descend.
55.00	Bottom of hollow,25 ft.below spur,drains E.then SE.
64.00	Round clay hill,75 ft.high 2 chs.to E.
76.00	East end of clay hill 1 ch.to W.
80.00	Set a limestone 12x10x6 ins.8 ins.in the ground,for cor. of secs. 25,26,35,and 36,marked 1 notch on S;1 notch on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil,2d.rate;clay.
	No timber.
	Undergrowth,salt sage on 80.00 chs.

SUBDIVISION OF T 3 S.R 22 E.

Chains

East on a random line

bet.secs.25 and 36.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.05 Intersect E bdy.of Tp.12 lks.N of cor.of secs. 25,30,31, and 36,heretofore described.

Thence I run

N.89°55'W.on a true line

bet.secs. 25 and 36.

Over bench bears N and S.

In sage brush and shadscale.

5.00 Descend from bench.

8.00 Irrigation ditch,4 lks.wide,1 ft.deep,flows S.

12.00 Brush creek,30 lks.wide,2 ft.deep,sandy bottom,rapid current,banks 6 ft.high;flows S.

12.20 Enter alfalfa field.

31.00 Leave same.

Irrigation ditch 3 lks.wide,1 ft.deep,flows S.

Leave creek bottom;ascend.

33.50 Enter bench 25 ft.above creek bottom,bears N and S.

John Evans' house bears S.39°00'E. 39.50 chs.dist.

C.Showalter's house bears N.1° 45'E. 23.10 chs.dist.

40.02$\frac{1}{2}$ Set a sandstone 20x18x9 ins.15 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base,1$\frac{1}{2}$ ft.high N of cor.

Pits impracticable.

49.50 Road bears N and S.

52.75 Head of hollow,drains SE.

Ascend.

56.00 Top of ridge spur,20 ft.above bench,projects S.

Descend.

69.00 Bottom of hollow,30 ft.below spur,drains SE.

Ascend.

76.00 South point of ridge spur.

Descend.

SUBDIVISION OF T 3 S.R 22 E

Chains	
79.75	Bottom of hollow,15 ft.below point of spur,drains SE.
	Ascend.
80.05	The cor.of secs. 25,26,35,and 36.
	Land broken bench and creek bottom.
	Soil,3d.and 1st.rate,rocky and alluvial loam.
	No timber.
	Alfalfa on 18.80 chs.
	Sage brush and shadscale on 61.20 chs.

	N.0° 1'W.bet.secs. 25 and 26.
	Slight descent.
	Through salt sage.
1.00	Bottom of hollow 20 ft.below cor. drains SE.
	Ascend.
15.50	Top of ridge spur,25 ft.above hollow,projects SE.
	Descend.
20.50	Bottom of hollow,20 ft.below top of spur,drains SE.
	Ascend.
32.50	Top of ridge spur 20 ft.above hollow,projects SE.
	Descend.
40.00	Set a limestone 12x10x8 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor.
	Pits impracticable.
50.00	Hollow, drains SE.
61.50	Top of ridge, projects SE.

SUBDIVISION OF T.3 S. R.22 E.

Chains	
65.50	Head of hollow drains NE. Ascend.
74.50	Top of ridge spur,30 ft.above hollow projects NE. Descend.
80.00	Set a sandstone 15x8x5 ins.10 ins.in the ground,for cor. of secs.23,24,25,and 26,marked 2 notches on S;1 notch on E edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land rolling.
	Soil 2d.rate,clay.
	Salt sage.
	No timber.
	Mountainous land on 80.chs.

	S.89°55'E. on a random line bet.secs.24 and 25.
40.00	Set temp.¼ sec.cor.
80.20	Intersect E bdy.of Tp.9 lks.S of cor.of secs. 19,24,25, and 30, heretofore described.
	Thence I run
	N.89°59'W.on a true line bet.secs.24 and 25.
	Across bench bears N and S.
19.00	Leave bench;descend.
21.00	Enter Brush creek bottom.
28.00	Wash 20 lks.wide,6 ft.deep,drains SW.
31.75	Road bears N and S.
32.00	Enter willow and tag alder brush.
39.50	Brush creek 50 lks.wide,2 ft.deep,sandy bottom,banks 6 ft.high,current rapid,flows S.
39.75	Leave brush. Ascend.
40.10	Set a sandstone 12x10x8 ins.8 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
	Mrs. Caldwell's house bears N.18°00'E. 25.50 chs. dist.
45.00	Enter bench,25 ft.above creek bottom,bears N and S.
55.50	Top of ridge spur,25 ft.above bench,projects SE. Descend.
72.00	Bottom of hollow 30 ft.below spur,drains SE. Ascend.
76.50	Top of ridge spur,30 ft.above hollow,projects NE. Descend.
80.20	The cor.of secs.23,24,25,and 26.

Chains	
	Land broken and level.
	Soil,alluvial loam and gravelly clay;1st.and 3d.rate.
	Willows on creek;sage brush and salt sage.
	No timber.
	Mountainous land on 56.chs.

	October,19th.1906: I set off 9°51"S on the decl.arc,and at 11h.45m.,a.m.,l.m.t., observe the sun on the meridian and obtain on the lat.arc,the reading 40°32';which agrees with other data.
	Thence I run
	N.0° 1'W. bet secs.23 and 24.
	Descend,over broken land,in sage brush and shadscale.
2.00	Bottom of hollow 20 ft.below cor.drains NE. Ascend.
5.00	Top of ridge spur,20 ft.above hollow projects E. Descend.
8.00	Bottom of hollow 30 ft.below spur,drains E. Ascend.
13.00	Top of ridge spur,30 ft.above hollow,projects S 60° E. Descend.
19.50	Bottom of hollow 25 ft.below spur,drains SE. Ascend.
26.50	Top of ridge spur,30 ft.above hollow projects SE. Descend
31.00	Head of hollow drains SE. Ascend.
33.00	Top of ridge spur 100 ft.above head of hollow,projects E. Descend.
40.00	Set a limestone 14x12x10 ins.19 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
45.50	Bottom of hollow 100 ft.below spur,drains E. Ascend.
53.00	Top of ridge spur,150 ft.above hollow,projects E. Descend.
67.50	Enter Brush creek bottom,bears NW and SE.
71.00	Road bears NW and SE.
71.50	Enter cultivated ground.
80.00	Set a sandstone 15x12x8 ins.10 ins.in the ground,for cor. of secs. 13,14,23,and 24,marked 3 notches on S;1 notch on E edges,and dig pits 18x18x12 ins. in each sec.5½ ft. dist, ~~cor.stone~~,and raise a mound of earth 4 ft.base,2 ft.

67.50
12.50

SUBDIVISION OF T.3 S. R.22 E.

Chains

high W of cor.

Land broken and level.

Soil,alluvial and gravelly clay,1st.and 3d.rate.

Cultivated land on 8.50 chs., Sage brush and shadscale.
No timber.
Mountainous land on 67.50 chs.

S.89°59'E.on a random line bet.secs.13 and 24.

40.00 Set temp.$\frac{1}{4}$ sec.cor.

80.25 Intersect E bdy.of Tp.5 lks.N of cor.of secs.13,18,19,an 24, heretofore described.

Thence I run

N.89°57'W.on a true line bet.secs.13 and 24.

Descend.over broken land,in sage brush.

0.75 Bottom of hollow,15 ft.below cor.drains SW. Ascend.

3.00 S.point of bench spur,75 ft.above hollow. Descend.

7.15 Bottom of hollow,150 ft.below spur,drains NW. Ascend.

10.50 Top of ridge spur,125 ft.above hollow,projects NW. Descend.

15.24 Bottom of hollow 200 ft.below spur,drains S 10° W. Ascend.

25.48 Top of bench spur,300 ft.above bottom of hollow projects S.15° W. Descend to bench.

28.50 Bottom of hollow 50 ft.below spur,drains S. Ascend.

33.94 Old mail road bears NE and SW.

36.00 Top of spur,25 ft.above hollow,projects S.10° W. Descend.

40.12½ Set a sandstone 14x12x6 ins. 10 ins.in the ground,for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.

53.80 Bottom of hollow 75 ft.below spur,drains SW. Ascend.

58.60 Top of spur 100 ft.above hollow,projects SW. Descend.

68.00 Enter Brush creek bottom and willow brush.

70.95 Brush creek 34 lks.wide,15 ins.deep,gravelly bottom,banks 5 ft.high,rapid current,flows S.

71.36 Leave brush,enter cultivated ground.

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

Chains

Land broken and level.

Soil,alluvial loam and gravelly clay,1st.and 3d.rate.

Cultivated ground,8.89 chs. Sage brush;willows,3.36 chs.
No timber.
Mountainous land on 68.chs.

N.0° 1'W. bet.secs. 13 and 14.

Across cultivated ground,in creek bottom.

13.00 Ira Bryant's house bears N 82° W. 2.25 chs. dist.

17.00 Leave cultivated ground;enter willow brush.

17.25 Brush creek,30 lks.wide,2 ft.deep,sandy bottom,banks 5 ft.high,rapid current,flows S.70° E.

20.00 Leave brush;and Brush creek bottom;ascend precipitous slope.

26.00 Enter bench 150 ft.above creek bottom ,bears NE and SW.

40.00 Set a sandstone 14x12x6 ins.39 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

80.00 Set a sandstone 15x12x7 ins. 10 ins.in the ground,for cor. of secs. 11,12,13,and 14.marked 1 notch on E;4 notches on S edges;raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

Land level and broken.

Soil,alluvial loam and gravelly clay,1st.and 3d.rate.

Cultivated ground on 17 chs. Willow brush on 3 chs.
No timber.
Mountainous land on 54.chs.

S.89°57'E.on a random line bet.secs.12 and 13.

40.00 Set temp.¼ sec.cor.

80.10 Intersect E bdy.of Tp.5 lks.S of cor.of secs.7,12,13,and 18, heretofore described.

Thence I run

N.89° 59' W on a true line bet.secs. 12 and 13.

Across bench,in sage brush and shadscale.

2.50 Old mail road bears NE and SW.

11.00 Leave bench;descend precipitous W slope,200 ft.

SUBDIVISION OF T.3 S. R.22 E.

Chains	
25.00	Enter Little Brush creek bottom,bears NE and SW.
33.00	Little Brush creek,10 lks.wide,4 ins.deep,in channel 75 lks.wide,10 ft.deep,rocky bottom,flows S. Ascend 10 f .
36.00	Leave bottom;ascend precipitous E slope.
40.05	Set a sandstone 16x14x12 ins.11 ins.in the ground for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
43.50	Enter bench,200 ft.above creek bottom,bears NE and SW. Now across same.
80.10	The cor.of secs. 11,12,13,and 14.
69/11.10	Land level and broken. No timber. Soil,alluvial loam and gravelly clay,1st.and 3d.rate. Undergrowth,sage brush and shadscale. Mountainous land on 69.chs.

(October,19th.1906.

October,20th. At 7h. 45m.a.m.,l.m.t., I set off 40°35' on lat.arc;10°07' S.on decl.arc and determine a meridian wi h the solar at the cor.of secs.11,12,13,and 14.

Thence I run

N.0° 1'W. bet.secs. 11 and 12.

Over bench; in sagebrush and shadscale.

15.50	Leave bench;descend.
22.50	Head of hollow drains W. Ascend.
30.00	Top of bench spur,50 ft.above head of hollow,projects W. Descend.
40.00	Set a sandstone 14x8x4 ins.9 ins.in the ground,for ¼ sec cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
42.00	Bottom of hollow,100 ft.below spur,drains SW. Ascend.
47.00	Top of bench spur,30 ft.above hollow,projects SW. Descen .
51.50	Bottom of hollow 100 ft.below spur,drains SW,from N. Now,ascend gradually in W side of hollow.
69.50	Pass through gap in reef. Enter scattering cedars.
80.00	Set a sandstone 15x12x2 ins. 10 ins.in the ground,for cor. of secs.1,2,11,and 12,marked 1 notch on E;5 notches on S

SUBDIVISION OF T.3 S.,R.22 E.

Chains

edges, whence

A cedar 20 ins,diam.bears N.43°00'E. 152 lks. dist.marked T 3 S.R 22 E. S 1 B T.

A cedar 6 ins.diam.bears S.61°15'E.73 lks.dist.marked T 3 S.R 22 E.S 12 B T.

A cedar 6 ins.diam.bears S.61°30'W. 114 lks.dist.marked T 3 S.R 22 E. S 11 B T.

A cedar 8 ins.diam.bears N.40° 30'W. 89 lks.dist.marked T 3 S.R 22 E. S 2 B T.

Land broken.

Soilsandy loam and gravelly clay,1st.and 5d.rate.

Timber,cedars on N 10.50 chs. Sage brush and shadscale.

Mountainous land on 80.chs.

S.39°59'E.on a random line bet.secs.1 and 12.

40.00 Set temp.¼ sec.cor.

80.00 Intersect E bdy.of Tp.16 lks. N of cor.of secs. 1,6,7, and 12., heretofore described.

Thence I run

N.89°52'W on a true line bet.secs.1 and 12.

Across Little Brush creek bottom.

4.50 Little Brush creek,8 lks.wide,6 ins.deep,in channel 25 lks.wide,15 ft.deep,rocky bottom,flows S 20° W. Ascend 15 ft.

7.50 Leave bottom;ascend precipitous E slope.

13.00 Enter bench 150 ft.above bottom,bears NE and SW.

Now across bench.

31.50 Leave bench;descend;enter scattering cedars.

33.00 Bottom of hollow,20 ft.below bench,drains SW. Ascend.

40.00 Set a sandstone 20x10x4 ins. 15 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high E of cor. Pits impracticable. whence

A cedar 4 ins.diam.bears N 14°45'W. 68 lks.dist.marked ¼ S 1 B T. No other trees within limits.

46.00 Bottom of rocky gully,20 ft.below cor.drains S.

Chains	
	Now along rocky S slope of reef.
66.50	Top of reef,100 ft.above gully,bears N.20°E and S.20° W.
	Descend. Indications of coal.
77.50	Bottom of hollow 25 ft.below top of reef,drains S.
78.50	S point of ridge spur. Descend.
79.00	Bottom of hollow 15 ft.below point of spur,drains SE.
	Ascend.
80.00	The cor.of secs. 1,2,11,and 12.
	Land level and broken.
	Soil sandy loam and gravelly clay;1st.and 3d.rate.
	Timber,cedars on 48.50 chs.
	Undergrowth,sage brush.
	Mountainous land on 80.chs.

	N.0°1'W. on a random line bet.secs.1 and 2.
40.00	Set temp.¼ sec.cor.
70.91	Intersect N bdy.of Tp.at closing corner of secs.1 and 2, heretofore described. Thence I run
	S.0°1'E.on a true line bet.secs.1 and 2.
	Descend over rolling land.
11.00	Road bears NE and SW.
17.50	Bottom of hollow 50 ft. below cor.drains SW. Ascend.
27.50	Top of reef,75 ft.above hollow bears S.80° W and N 80°
	Descend.
30.75	Head of hollow drains SW. Ascend.
30.91	Set a limestone 12x10x5 ins. 8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
36.00	Enter bench 15 ft.above hollow,bears NE and SW.
50.00	Road to Diamond Mt. bears NE and SW.
64.00	Leave bench;descend. Enter cedars.
66.20	Bottom of hollow 25 ft.below bench drains S.
68.50	Leave hollow;ascend.
70.91	The cor.of secs. 1,2,11,and 12.
	Land rolling.

Chains	
	Soil mostly clay,2d.rate.
	Timber,cedars on 6.91 chs.
	Sage brush;some grass.
	Mountainous land on 70.91 chs.

	From the cor.of secs.2,3,34,and 35 on S bdy.of Tp. heretofore described, I run
	N.0° 2'W. bet.secs.34 and 35.
	Descend.over mountainous land.
3.50	Bottom of hollow 75 ft.below cor.drains S.75° E. Ascend.
7.50	Enter bench 75 ft.above hollow,bears NW and SE.
35.00	Leave bench;descend.
36.00	Bottom of hollow 35 ft.below bench,drains SE. Ascend.
40.00	Set a limestone 24x18x8 ins.18 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Top of ridge spur,30 ft.above hollow,projects SE.
	Descend.
48.50	Head of hollow drains SE. Ascend.
56.50	Top of ridge spur,75 ft.above head of hollow,projects SE.
	Descend.
65.00	Bottom of hollow 50 ft.below spur,drains SE. Ascend.
76.00	Top of ridge spur 150 ft.above hollow,projects SE.
	Descend precipitous slope.
80.00	Set a sandstone 14x10x6 ins.6 ins.in the ground,for cor. of secs.26,27,34,and 35,marked 1 notch on S;2 notches on E edges,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil stony,3d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.chs.

	October,20th.1906: I set off 10° 12'S on the decl.arc and

Chains	
	at 11h.45 m.,a.m.,l.m.t., observe the sun on the meridia and obtain on the lat.arc,the reading 40°31' which agrees with other data.
	Thence I run
	E on a random line bet.secs.26 and 35.
40.00	Set temp ¼ sec.cor.
80.10	Intersect N and S line 2 lks.N of cor.of secs.25,26,35, and 36.
	Thence I run
	N.89°59'W.on a true line bet.secs.26 and 35.
	Along N slope of clay hill. Descend,in salt sage.
16.00	Wash 8 lks.wide,3 ft.deep,drains S.20° E.
28.50	Wash 10 lks.wide,4 ft.deep,drains SE.
40.05	Set a sandstone 18x9x6 ins. 12 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
45.40	Same wash,drains NE. Ascend,in sage brush;leave salt sage.
65.35	Top of ridge spur 50 ft.above wash,projects NE. Descend.
75.00	Head of hollow drains NE.
80.10	The cor.of secs.26,27,34,and 35.
	Land rolling.
	Soil gravelly,2d.rate.
	No timber.
	Sage brush and salt sage.
	Mountainous land on 80.10 chs.

	N.0° 2'W.bet.secs. 26 and 27.
	Descend.over broken mountainous land in sage brush.
27.50	Bottom of hollow 50 ft.below cor. drains NE. Ascend.
29.00	Enter broken bench,bears NE and SW.
40.00	Set a sandstone 14x10x4 ins.9 ins.in the ground,for ¼ sec.cor.marked ¼ on W face and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
53.00	Descend from bench.
54.50	Bottom of hollow 25 ft.below bench,drains SE. Ascend.

SUBDIVISION OF T.3 S.,R.22 E.

Chains	
61.00	Top of ridge 30 ft.above hollow bears N 60° W. and S 60° E
	Descend.
80.00	Set a sandstone 18x10x10 ins.12 ins.in the ground,for cor.of secs.22,23,26,and 27,marked 2 notches on S;2 notche on E edges,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil rocky,3d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.chs.

	S.89°59'E on a random line bet.secs.23 and 26.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N and S line 7 lks.N of cor.of secs.23,24,25, and 26.
	Thence I run
	N.89°56'W on a true line bet.secs.23 and 26.
	Over mountainous land in sage brush.
1.00	Wash 10 lks.wide,3 ft.deep,drains NE. Ascend.
10.00	Top of ridge spur,50 ft.above wash,projects NE. Descend.
30.00	Bottom of cove in N slope. Ascend.
35.00	Top of ridge spur,75 ft.high;from SW;projects SE.
	Descend.
40.04	Set a limestone 14x12x4 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
47.50	Bottom of hollow 50 ft.below spur,drains NE. Ascend.
53.00	Enter bench,bears N and S.
66.50	Leave bench;descend;leave sage brush;enter salt sage.
70.50	Bottom of hollow,50 ft.below bench,drains SE. Ascend.
75.00	Top of ridge spur,25 ft.above hollow,projects N.
	Descend.
80.08	The cor.of secs. 22,23,26 and 27.
	Land rolling.
	Soil,clay 2d.rate.

SUBDIVISION OF T.3 S. R.22 E.

Chains

No timber.

Sage brush and salt sage.

Mountainous land on 80.08 chs.

N.0° 2'W.bet.secs.22 and 23. over mountainous land.
In salt sage.

0.50 Bottom of hollow 20 ft.below cor.drains N.80° E. Ascend.

4.50 Top of ridge spur 25 ft.above hollow projects E.

Descend;leave salt sage;enter sage brush.

8.50 Head of hollow drains SE. Ascend.

2.00 Top of ridge 30 ft.above hollow bears E and W. Descend.

6.50 Bottom of hollow 50 ft.below spur,drains E. Ascend.

2.50 Top of ridge spur,75 ft.above hollow,projects E. Descend.

7.00 Bottom of hollow 50 ft.below spur,drains SE. Ascend.

30.00 Enter bench bears E and W. Ascend.

38.00 Top of ridge spur,30 ft.above bench,projects E. Descend.

0.00 Set a sandstone 14x12x4 ins.10 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.

44.00 Bottom of hollow 50 ft.below spur,drains E. Ascend.

53.50 Top of ridge spur,75 ft.above hollow,projects E. Descend.

79.00 Bottom of hollow 100 ft.below spur,drains N.80° E. Ascend.

80.00 Set a limestone 14x12x10 ins.9 ins.in the ground,for cor. of secs.14,15,22,and 23,marked 2 notches on E;3 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft. high W of cor. Pits impracticable.

Land broken.

Soil,rocky,3d.rate.

No timber.

Sage brush and shadscale.

Mountainous land on 80.chs.

(October,20th.1906.

October,22d: At 7h.45m.,a.m.,l.m.t., I set off 40° 37'on lat.arc;10°50' S on decl.arc,and determine a meridian with the solar at the cor.of secs.14 15 22 and 23.

SUBDIVISION OF T.5 S.,R.22 E.

Chains

Thence I run

S.39°56'E on a random line bet.secs.14 and 23.

40.00 Set temp.¼ sec.cor.

79.92 Intersect N and S line 2 lks.S of cor.of secs.13,14,23, and 24.

Thence I run

N.89°57'W on a true line bet.secs.14 and 23.

Across cultivated ground.

5.00 Leave cultivated ground;enter sage brush and shadscale.

6.25 Old mail road bears NW and SE.

11.00 Leave flat;ascend.

13.00 Top of ridge spur 100 ft.above flat,projects N.10° E.

Descend.

29.50 Bottom of hollow 100 ft.below spur,drains NE.

Now ascend along N side of hollow.

39.96 Set a sandstone 14x8x3 ins.9½ ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.

57.00 Same hollow,drains S.70° E. Ascend.

70.00 Top of ridge spur,30 ft.above hollow,projects N.

Descend.

74.00 Bottom of hollow 30 ft.below spur,drains NE. Ascend.

79.92 The cor.of secs.14,15,22,and 23.

Land level and broken.

Soil,loam and rocky;1st.and 2d.rate.

Cultivated ground on 5 chs. Sage brush and shadscale.

No timber.

Mountainous land on 79.92 chs.

N.0° 2' W. bet.secs. 14,and 15.

Ascend,over broken land,in sage brush and shadscale.

3.50 Top of ridge spur,75 ft.above cor.projects E.

Descend.

5.50 Bottom of hollow 75 ft.below spur,drains E. Ascend.

20.50 Old mail road bears E and W. on top of ridge 100 ft.above

Chains	
	hollow;ridge bears E and W. Descend.
40.00	Set a sandstone 14x12x6 ins. 9 ins.in the ground,for ¼ sec. cor. marked ¼ on W face,and raise a mound of stone 2 ft. base 1½ ft.high W of cor. Pits impracticable.
49.50	Bend in bottom of hollow,from NE drains SE. 50 ft.below cor. Ascend.
60.00	E slope of clay hill 150 ft.above hollow. Descend.
69.00	Bottom of hollow 100 ft.below slope of hill,drains NW. Ascend.
76.00	Top of ridge spur,30 ft.above hollow,projects S.80° W. Descend.
79.00	Bottom of hollow 30 ft.below spur,drains W. Ascend precipitous clay slope.
80.00	Set a sandstone 14x10x8 ins. 9 ins.in the ground,for cor. of secs: 10,11;14,and 15,marked 2 notches on E;4 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land broken.
	Soil,rocky,3d.rate.
	No timber.
	Sage brush and salt sage.

	S.89°57'E. on a random line bet.secs. 11 and 14.
40.00	Set temp.¼ sec.cor.
80.05	Intersect N and S line 7 lks.S of cor.of secs.11,12,13, and 14.
	Thence I run
	West on a true line bet.secs.11 and 14.
	Across bench,in sage brush and shadscale.
14.50	Leave bench;descend precipitous W slope.
18.50	Enter Brush creek bottom,bears N and S. Leave sage brush.
20.35	Road to Diamond Mt.bears N and S.
26.00	Chris Knudtson's house on line.
27.00	Enter alfalfa field.
37.00	Leave same;enter brush.

SUBDIVISION OF T.3 S..R.22 E.

Chains	
38.25	Leave brush;re-enter alfalfa field.
40.02½	Set a sandstone 16x12x4 ins. 11 ins.in the ground for ¼ sec.cor.marked ¼ on N face,and dig pits 18x18x12 ins.E and W of stone 3 ft.dist.and raise a mound of earth 3½ ft. base 1½ ft.high N of cor.
42.00	Leave alfalfa field.
42.50	Brush creek,30 lks.wide,2 ft.deep,shale bottom,banks 3 ft.high,current rapid,flows S.15° E.
43.00	Foot of blue clay precipice,250 ft.high; ascend.
60.00	Top of round clay hill 500 ft.above Brush creek;descend.
80.05	The cor.of secs.10,11,14,and 15.
4-50	Land broken and level.
5-55	Soil loam and rocky;1st.and 3d.rate.
	No timber.
	Alfalfa on 13.75 chs. Brush on 1.25 chs. Salt Sage.
	Mountainous land on 55.50 chs.

	N.0° 2' W. bet.secs. 10 and 11.
	Ascend along broken W slope.
15.00	W slope of high clay hill;descend.
21.50	Head of hollow drains W. Ascend.
26.00	Top of spur from hill 75 ft.above hollow,projects NW.
33.00	Top of same spur,projects NE. Descend.
40.00	Set a limestone 16x12x8 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.
48.50	Brush creek 30 lks.wide,18 ins.deep,gravelly bottom,banks 15 ft.high,rapid current;flows in a general southeasterly course. Ascend precipitous SE slope of spur.
80.00	Set a limestone 20x7x4 ins. 15 ins.in the ground,for cor. of secs.2,3,10,and 11,marked 2 notches on E;5 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	On E slope of spur near top.
	Land mountainous.

Chains	
	Soil,rocky;3d.rate.
	No timber.
	Sage brush shadscale;and a few willows along Brush creek.
	Mountainous land on 80. chs.

	October,22,1906: I set off 10° 55'S on the decl.arc,and a 11h.45m.,a.m.,l.m.t., observe the sun on the meridian,an obtain on the lat.arc the reading 40°35',which agrees with other data.
	Thence I run
	East on a random line bet.secs.2 and 11.
40.00	Set temp.¼ sec.cor.
80.08	Intersect N and S line 12 lks. N of cor. of secs. 1,2,11, and 12.
	Thence I run
	N.89°55'W on a true line bet.secs.2 and 11.
	Ascend in cedars,over mountainous land.
12.00	Road to Diamond Mt. bears NE and SW.
30.00	Saddle in top of ridge;ridge 100 ft.above cor. bears SW and NE. Descend along NW slope.
40.04	Set a quartzite 30x6x6 ins. 15 ins.in the ground for ¼ sec.cor.marked ¼ on N face, whence
	A cedar 4 ins.diam.bears S.39°00'E. 12 lks.dist.marked ¼ S 11 B T.
	A cedar 8 ins.diam.bears N.0° 30'W. 24 lks.dist.marked ¼ S 2 B T.
	Leave cedars;enter sage brush and shadscale.
55.50	Bottom of hollow 100 ft.below saddle,drains SW. Ascend.
69.25	Top of ridge spur,75 ft.above hollow,projects S. Descend.
75.50	Bottom of hollow 100 ft.below spur,drains S. Ascend.
80.08	The cor.of secs. 2,3,10,and 11.
	Land mountainous.
	Soil,rocky;3d.rate.
	Cecars on E 40.04 chs.
	Sage brush and shadscale.
	Mountainous land on 80.08 chs.

SUBDIVISION OF T.3 S.,R.22 E.

Chains	
	N.0° 8'W. on a random line bet.secs. 2,and 3.
40.00	Set temp.¼ sec.cor.
70.85	Intersect N bdy.of Tp.23 lks.W.of closing cor.of,secs,2 and 3; heretofore described.
	Thence I run
	S.0°8'W on a true line bet.secs.2 and 3.
	Over flat,in sage brush.
9.00	Leave scattering cedars;enter sage brush and shadscale.
30.85	Set a sandstone 18x8x5 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and dig pits 18x18x12 ins.N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft.base 1½ ft.high W of cor.
39.50	Road to Diamond Mt.bears NE and SW.
53.00	Leave flat;ascend slope of spur.
57.00	Top of ridge spur,50 ft.above flat,projects S.
	Descend along E slope of spur.
70.85	The cor.of secs.2,3,10,and 11.
	Land level and rolling.
	Soil,sandy and rocky;2d.and 3d.rate.
	Timber,cedars on 9 chs.
	Sage brush and shadscale.
	Mountainous land on 70.85 chs.

	From the cor.of secs.22,23,26,and 27.
	I run
	West on a true line bet.secs.22 and 27.
	Descend.
	The land South of this line being mountainous and unfit for agriculture I do not survey same.
2.00	Bottom of hollow 35 ft.below cor. drains N 80° E. Ascend.
10.25	Top of ridge spur,30 ft.above hollow projects S.
	Descend.
18.50	Bottom of same hollow drains SE. Ascend. Enter cedars.
40.00	Set a sandstone 20x9x8 ins.15 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, whence

SUBDIVISION OF T.3 S. R.22 E.

Chains	
	A cedar 5 ins.diam.bears S 60°00'E 79 lks.dist.marked ¼ S 27 B T.
	A cedar 6 ins.dism.bears N 6° 30'W. 63 lks.dist.marked ¼ S 22 B T.
43.00	Top of ridge spur,75 ft.above bottom of hollow projects NE. Descend.
50.00	Bottom of hollow 50 ft.below spur,drains NE. Ascends.
57.00	Top of ridge spur,60 ft.above hollow,projects NE. Descend.
78.50	Bottom of hollow 75 ft.below spur,drains NE. Ascend.
80.00	Set a sandstone 14x8x6 ins.9 ins.in the ground,for cor. of secs.21,22,27,and 28,marked 2 notches on S;3 notches on E edges, whence
	A cedar 6 ins.diam.bears N.28°30'E. 36 lks.dist.marked T 3 S.R 22 E. S 22 B T.
	A cedar 10 ins.diam.bears S.21°30'E. 53 lks.dist.marked T 3 S.R 22 E. S 27 B T.
	A cedar 8 ins.diam.bears S.43°00'W. 81 lks.dist.marked T 3 S. R 22 E. S 28 B T.
	A cedar 8 ins.diam.bears N.55°30'W. 18 lks.dist.marked T 3 S.R 22 E. S 21 B T.
	Land very broken.
	Soil,rocky;3d.rate.
	Timber,cedars on 61.50 chs.
	Sage brush.
	Mountainous land on 80.chs.

	N.0° 2'W. bet.secs.21 and 22.
	Along broken E slope,in scattering cedars.
13.00	Bottom of ravine 30 ft.deep,drains E.
21.50	Bottom of rocky ravine 10 ft.deep,drains NE. Ascend.
27.50	Top of hill 200 ft.above cor. Descend.
38.50	Bottom of hollow 150 ft.below hill top drains NE. Ascend
40.00	Set a limestone 18x8x4 ins.12 ins.in the ground,for ¼ sec. cor.marked ¼ on W face, whence
	A cedar 6 ins.diam.bears S.40° 30'E. 8 lks.dist.marked

SUBDIVISION OF T.3 S. R.22 E.

Chains	
	¼ S 22 B T.
	A cedar 4 ins.diam.bears S.64°30'W. 19 lks.dist.marked ¼ S 21 B T.
45.00	Top of spur from high hill projects NE 200 ft.above hollow. Descend.
52.00	Bottom of hollow 50 ft.below spur,drains NE. Ascend.
56.00	Top of spur from hill 50 ft.above hollow,projects NE. Descend.
64.00	Bottom of hollow 300 ft.below spur,drains S 60° E.then NE Ascend.
80.00	Top of ridge spur,50 ft.above hollow,projects SE.
	Set a sandstone 13x10x10 ins.12 ins.in the ground,for cor. of secs.15,16,21,and 22,marked 3 notches on S;3 notches on E edges; 3 S on NE; 22 E on SE faces, and raise a mound of stone 2 ft.base 1½ ft.high W of cor. whence
	A cedar 4 ins.diam.bears S 56°30'W. 112 lks.dist.marked T 3 S R 22 E S 21 B T.
	A cedar 6 ins.diam.bears N 87°15'W 31 lks.dist.marked T 3 S R 22 E S 15 B T.
	No other trees within limits.
	Land mountainous.
	Soil,rocky;3d.rate.
	Timber,cedars on 80 chs.
	Mountainous land on 80.chs.
	(October,22d.1906.

	October 23d: At 7h.45m.,a.m.,l.m.t., I set off 40°33' on lat.arc;11°11' S on decl.arc,and determine a meridian with the solar at the cor.of secs.15,16,21,and 22.
	Thence I run
	East on a random line,bet.secs.15 and 22.
40.00	Set temp.¼ sec.cor.
80.10	Intersect N and S line 7 lks. S of cor.of secs.14,15,22, and 23.
	Thence I run

SUBDIVISION OF T.3 S. R.22 E.

Chains

S.89°57'W. on a true line bet.secs.15 and 22.

Ascend,over mountainous land in sage brush and shadscale

8.00 Top of ridge spur,75 ft.above cor.projects NE. Descend.

14.00 Bottom of hollow 100 ft.below spur,drains NE. Ascend.

20.00 Top of ridge spur,100 ft.above hollow projects NE.

Descend along N slope of spur.

40.05 Set a sandstone 17x12x6 ins.12 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,dig pits 18x18x12 ins. E and W of stone 3 ft.dist.and raise a mound of earth $3\frac{1}{2}$ ft.base $1\frac{1}{2}$ ft.high N of cor.

55.00 Bottom of cove in bend of spur, Ascend.

68.10 Top of same ridge spur,75 ft.above cove,projects SE.

Descend.

71.50 Bottom of hollow 50 ft.below spur,drains SE. Ascend.

80.10 The cor.of secs. 15,16,21,and 22,

On top of ridge spur,60 ft.above hollow projects SE.

Land broken.

Soil clay;2d.rate.

No timber.

Sage brush and shadscale.

Mountainous land on 80.10 chs.

N.0° 2'W. bet.secs.15,and 16.

Descend over mountainous land in sage brush and shadscale.

8.50 Bottom of hollow 30 ft.below cor.drains NE. Ascend.

19.50 E slope of hill; descend.

27.50 Bottom of hollow 100 ft.below slope from hill,drains S 75° E. Ascend.

33.00 Enter cedars;leave sage brush.

34.00 Top of ridge spur,250 ft.above hollow,projects S 70° E. from high hill. Descend.

37.00 Leave cedars;re-enter sage brush and shadscale.

40.00 Set a sandstone 18x6x4 ins. 12 ins.in the ground,for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on W face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high W of cor. Pits impracticable.

SUBDIVISION OF T.3 S.R 22 E.

Chains	
	Now descend over broken E slope.
69.70	Bottom of hollow 100 ft.below spur,drains E. Ascend.
76.00	Top of ridge spur,100 ft.above hollow,projects NE.
	Descend. Re-enter cedars.
79.00	Leave cedars.
80.00	Set a sandstone 16x12x4 ins. 11 ins.in the ground,for cor. of secs. 9,10,15,and 16,marked 3 notches on E;4 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable. whence
	A cedar 8 ins.diam.bears S 45°15'E. 93 lks.dist.marked T 3 S R 22 E S 15 B T.
	A cedar 4 ins.diam.bears S 10° 00' W. 125 lks.dist.marked T 3 S R 22 E S 16 B T.
	No other trees within limits.
	Land mountainous.
	Soil,rocky;3d.rate.
	Timber,cedars on 80.00 chs.
	Sage brush and shadscale. No grass.
	Mountainous land on 80 chs.

	N 89° 57'E on a random line bet.secs. 10 and 15.
40.00	Set temp.¼ sec.cor.
79.30	Intersect N and S line 23 lks.S of cor.of secs. 10,11,14, and 15.
	Thence I run
	S 89° 47'W on a true line bet.secs. 10 and 15.
	Descend over mountainous land,in sage brush and shadscale.
12.00	Bottom of hollow 75 ft.below cor.drains NW. Ascend.
17.70	Top of ridge spur,75 ft.above hollow,projects NE. Descend.
28.00	Bottom of hollow,75 ft.below spur,drains NE.
	Ascend gradually in N side of hollow.
39.90	Set a limestone 16x12x5 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on N face and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.
40.00	Same hollow drains S 80° E. Ascend.

[illegible] OF [illegible] .R 22 E.

Chains	
45.50	Top of ridge spur,75 ft.above hollow,projects NE. Descend.
51.00	Bottom of hollow 75 ft.below spur,drains N. Ascend.
58.00	N slope of hill 100 ft.above hollow. Descend.
66.30	Bend in hollow,from NW drains NE;hollow 100 ft.below slope of hill.
68.80	Old mail road bears NW and SE.
78.00	Top of ridge spur,75 ft.above hollow,projects NE. Descend.
79.80	The cor.of secs.9,10,15,and 16.
	Land broken.
	Soil,rocky;3d.rate.
	No timber.
	Sage brush and shadscale. No grass.
	Mountainous land on 79.80 chs.

	N 0° 2'W bet.secs. 9 and 10.
	Descend in scattering cedars,over mountainous land.
1.00	Bottom of hollow 100 ft,below cor.drains E. Ascend.
6.30	Top of ridge spur,100 ft.above hollow,projects E.
	Leave cedars;descend;enter sage brush.
12.36	Old mail road bears W and SE.
25.20	Bottom of hollow 150 ft.below spur,drains N 80° E. Ascend.
26.50	Re-enter cedars;leave sage brush.
36.27	Top of reef 300 ft.above hollow,bears N 70° E.and S 70° W.
	Indications of coal. Descend.
40.00	Set a sandstone 18x10x6 ins. 12 ins.in the ground,for ¼ sec.cor.marked ¼ on W face, whence
	A cedar 5 ins.diam.bears S 32°15'E. 16 lks.dist.marked ¼ S 10 B T.
	A cedar 8 ins.diam.bears S 28° 30'W 13 lks.dist.marked ¼ S 9 B T.
59.25	Bottom of hollow 300 ft.below reef,drains E. Ascend.

[illegible]

[illegible] Top of ridge spur, [illegible] ft. above hollow, projects [illegible].

Descend.

[illegible] Head of hollow [illegible] ft. below spur, drains [illegible]. Ascend.

[illegible] Top of ridge spur [illegible] ft. above hollow, projects [illegible].

Leave [illegible]; descend.

[illegible] Set a limestone [illegible] ins. 11 ins. in the ground, for cor. of secs. [illegible], 4, [illegible], and 10, marked [illegible] notches on [illegible] notches [illegible] edges, and raise a mound of stone [illegible] ft. base, 1½ ft. high [illegible] of cor. Pits impracticable.

Land mountainous.

Soil rocky [illegible].

Timber, [illegible] on 50.30 chs.

[illegible] brush and shadscale.

Mountainous land on 10. chs.

[illegible] on a random line bet. secs. [illegible] and 10.

[illegible] Set temp. [illegible] c. cor.

[illegible] Intersect N and S line 27 lks. N of cor. of secs. [illegible], [illegible], 10, and 11.

[illegible]

[illegible] on a true line bet. secs. [illegible] and 10.

[illegible] over mountainous land.

[illegible] Top of ridge spur, [illegible] ft. above cor. projects [illegible]. Descend.

[illegible] broken slope.

[illegible] Bottom of hollow [illegible] ft. below spur, drains [illegible]. Ascend.

[illegible] Top of ridge spur, [illegible] ft. above hollow, projects [illegible].

Descend.

[illegible]

[illegible] ins. [illegible] ins. in the ground, [illegible]

[illegible] pits [illegible] ins. [illegible]

[illegible] ft. [illegible] and raise a mound of earth

[illegible] ft. [illegible] of cor.

[illegible]

[illegible] ins. [illegible]

[illegible]

SUBDIVISION OF T.3 S.R 22 E.

Chains	
49.45	Leave brush.
58.22	Wire fence bears N and S. Leave bottom;ascend.
64.55	Top of ridge spur 100 ft.above bottom ,projects NE.
	Enter cedars;descend. Ed.Brian's house bears N 37°45'E. 10.50 chs.dist.
67.00	Leave cedars.
80.04	The cor.of secs. 3,4,9,and 10.
63 82 / 16 82	Land level and broken.
	Soil loam and rocky;1st.and 3d.rate.
	Timber,cedars on 2.45 chs.
	Sage brush. Willows on 9.45 chs.
	Mountainous land on 63.82 chs.

	October,23,1906: I set off 11° 16'S on the decl.arc,and at 11h 44m.31s. a.m.,l.m.t.,observe the sun on the meridian,and obtain on the lat.arc,the reading 40°35',which agrees with other data.
	Thence I run
	N.0° 2' W.on a random line bet.secs.3,and 4.
40.00	Set temp.¼ sec.cor.
70.88	Intersect N bdy.of Tp.14 lks.W.of closing cor.of,secs,3and and 4, heretofore described.
	Thence I run
	S 0° 4'W.on a true line bet.secs.3,and 4.
	Descend precipitous broken S slope over bare sandstone surface.
29.15	Cliff 100 ft.deep,bears NW and SE. Descend.
30.63	Brush creek,30 lks.wide,15 ins.deep,gravelly bottom,banks 3 ft.high,rapid current,flows SE.
	Enter dense willow brush.
30.83	Set a limestone 16x10x3 ins. 11 ins.in the ground,for ¼ sec.cor. marked ¼ on W face,and dig pits 18x18x12 ins. N and S of stone 3 ft.dist.and raise a mound of earth 3½ ft. base,1½ ft.high W of cor.
33.90	Leave bottom and dense brush;ascend precipitous slope.
34.00	Enter cedars.

Chains	
35.78	Top of ridge spur 150 ft.above Brush creek bottom projects E. Descend.
37.90	Bottom of hollow 100 ft.below spur,drains E. Ascend.
43.88	Leave cedars;enter sage brush and shdscale.
52.75	Enter bench 100 ft.above hollow,bears E and W.
55.00	Leave bench;descend.
55.90	Bottom of hollow 100 ft.below bench,drains E. Ascend.
60.15	Top of ridge spur,100 ft.above hollow,projects E. Descend
67.85	Road bears W and NE in small hollow,draining E.
70.88	The cor.of secs.3,4,9,and 10.
67.55 / 8.33	Land very broken.
	Soil sandy and stony;2d.and 3d.rate.
	Timber,cedars on 39.88 chs.
	Willows on 3.27 chs. Sage brush.and shadscale.
	Mountainous land on 67.55 chs.

From the cor.of secs.15,16,21,and 22.

I run

West on a true line bet.secs.16 and 21.

Descend.over mountainous land in sage brush and shdscale.

The land south of this line being broken mountains,unfit for agriculture,I do not survey same.

7.90	Bottom of hollow 50 ft.below cor.drains SE. Ascend.
12.00	Top of hill spur,50 ft.above hollow,projects SE. Descend.
18.50	Bottom of hollow 150 ft.below spur,drains S. Ascend.
20.50	Top of hill spur,100 ft.above hollow,projects S. Descend.
23.50	Bottom of hollow 100 ft.below spur,drains S. Ascend.
27.50	Top of hill spur,150 ft.above hollow,projects S. Descend.
40.00	Set a sandstone 14x12x6 ins.,9 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
40.60	Bottom of hollow 200 ft.below spur,drains S 60° E. Ascend.
44.50	N point of ridge spur,50 ft.above hollow. Descend.

SUBDIVISION OF T. 3 S.R 22 E.

Chains	
47.50	Bottom of same hollow,drains NE. Ascend.
65.00	Top of ridge 150 ft.above hollow,bears NW and SE. Descend.
78.00	Bottom of hollow 100 ft.below ridge drains SW. Ascend.
80.00	Set a sandstone 20x10x8 ins. 15 ins.in the ground,for cor. of secs. 16,17,20,and 21,marked 3 notches on S;4 notches on E edges,and raise a mound of stone 2 ft.base 1½ ft. high W of cor. Pits impracticable.
	Land broken.
	Soil stony;3d.rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80.chs.

	N.0° 3'W.bet.secs. 16 and 17.
	Ascend gradually in W side of hollow.
20.00	Enter cedars.
37.00	Leave cedars;enter sage brush and shdscale.
40.00	Set a sandstone 14x10x6 ins.19 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
60.00	On precipitous E slope of hill 200 ft.above ¼ sec.cor. Descend. Enter cedars.
68.00	Leave cedars;descend precipitous NE slope of hill.
77.00	Saddle between hill and ridge,250 ft.below hill top,bears NE and SW. Descend along W slope of ridge.
80.00	Set a limestone 16x12x6 ins.11 ins.in the ground,for cor. of secs.8,9,16,and 17,marked 4 notches on E;4 notches on S edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.
	Soil,stony;3d.rate.
	Timber,cedars on 17.chs.
	Sage brush;some grass.
	Mountainous land on 80.chs.

Chains	
	East on a random line bet.secs. 9,and 16.
40.00	Set temp.$\frac{1}{4}$ sec.cor.
80.00	Intersect N and S line 30 lks. S of cor.of secs. 9,10,15, and 16.
	Thence I run
	S 89° 47'W on a true line bet.secs.9 and 16.
	Descend,over mountainous land,in cedars.
1.50	Leave cedars;enter sage brush.
6.25	Bottom of hollow 25 ft.below cor.drains N 70° E.,Ascend.
11.60	Top of ridge spur,50 ft.above hollow,projects NE., Descend.
23.00	Bottom of hollow 50 ft.below spur,drains N. Ascend.
26.00	Enter cedars;leave sage brush.
31.65	Top of hill spur 75 ft.above hollow,projects N. Descend.
	Leave cedars;re-enter sage brush.
40.00	Set a limestone 15x8x6 ins. 10 ins.in the ground,for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on N face,and raise a mound of stone 2 ft.base,$1\frac{1}{2}$ ft.high N of cor. Pits impracticable.
42.50	Bottom of hollow 30 ft.below spur,drains NE. Ascend.
48.44	Top of ridge 60 ft.above hollow,bears NE and SW. Descend.
51.50	Enter broad hollow 60 ft.below ridge,drains NE.
53.45	Wash 6 lks.wide,3 ft.deep,drains NE.
67.50	Leave hollow;ascend.along N slope of spur. [illegible]
78.50	Top of ridge 200 ft.above hollow,bears N and S. Descend.
80.00	The cor.of secs. 8,9,16,and 17.
	Land broken.
	Soil,rocky;3d.rate.
	Timber,cedars on 7.15 chs.
	Sage brush and shadscale.
	Mountainous land on 80.chs.

(October,23d.1906.

October,24th: At 7h.44m.,a.m.,l.m.t., I set off 40° 30' on lat.arc;11°33'S on decl.arc,and determine a meridian with the solar at the cor.of secs.4,5,32,and 33 on S bdy.of Tp. heretofore described.

Thence I run

SUBDIVISION OF T.3 S.R 22 E.

Chains	
	N.0° 31'W. bet.secs.28 and 33.
	Descend,in cedars over broken land.
5.50	Bottom of hollow 50 ft.below cor. drains S.70° W. Ascend.
19.50	Top of ridge spur,100 ft.above hollow,projects S 70° W.
	Descend.
22.25	Bottom of hollow 50 ft.below spur,drains S 70° W. Ascend.
26.75	Top of ridge spur,50 ft.above hollow,projects W. Descend.
31.00	Bottom of hollow 100 ft.below spur,drains S 75° W. Ascend.
33.00	W point of ridge spur,25 ft.above hollow;descend.
33.70	Bottom of hollow 25 ft.below point of spur,drains SW.
	Ascend.
40.00	Set a limestone 18x12x4 ins. 12 ins.in the ground,for ¼
	sec.cor.marked ¼ on W face, whence
	A cedar 4 ins.diam.bears N 31° 45'E.86 lks. dist.marked
	¼ S 33 B T.
	A cedar 4 ins.diam.bears S 34° 30'W. 37 lks.dist.marked
	¼ S 32 B T.
42.50	Top of ridge spur,50 ft.above hollow,projects SW.
	Descend. Leave cedars;enter sage brush and shadscale.
52.00	Bottom of hollow 75 ft.below spur,drains SW. Ascend.
57.50	Enter bench 100 ft.above hollow,bears N and S.
	Enter cedars. Ascend gradually over bench in cedars.
	Leave sage brush and shadscale.
80.00	Set a limestone 18x10x4 ins.12 ins.in the ground,for cor.
	of secs.28,29,32,and 33,marked 1 notch on S;4 notches on
	E edges, whence
	A cedar 5 ins.diam.bears N 57° 15'E.27 lks.dist.marked
	T 3 S.R 22 E.S 28 B T.
	A cedar 9 ins. diam.bears S 36°00'E. 73 lks.dist.marked
	T 3 S.R 22 E.S 33 B T.
	A cedar 4 ins.diam.bears S 62°30'W. 52 lks.dist.marked
	T 3 S.R 22 E.S 32 B T.
	A cedar 10 ins.diam.bears N 72°00'W. 66 lks.dist.marked
	T 3 S.R 22 E S 29 B T.
	Land broken.
	Soil,rocky;3d.rate.

SUBDIVISION OF T 3 S R 22 E.

Chains	
	Timber, cedars on 65.00 chs. Sagebrush and shadscale.
	Mountainous land on 80 chs.
	On account of high broken mountains abandon survey north.

	From the cor. of secs. 5,6,31, and 32, on S bdy. of Tp. heretofore described.
	I run
	N. 0° 4' W. bet. secs. 31 and 32.
	Ascend gradually in hollow, in sage brush and shadscale.
14.50	Wash 30 lks. wide, 10 ft. deep, drains S 10° E.
36.50	Same wash, drains S 10° W.
40.00	Set a sandstone 16x12x6 ins. 11 ins. in the ground, for ¼ sec. cor. marked ¼ on W face, and raise a mound of stone 2 ft. base. 1½ ft. high W of cor. Pits impracticable.
42.00	Top of ridge spur, 75 ft. above hollow, projects SE.
	Descend.
57.00	Bottom of hollow 60 ft. below spur, drains S 20° E.
	Now ascend in hollow.
66.00	Leave hollow; ascend.
77.00	Top of ridge spur 40 ft. above hollow projects SW.
	Descend.
80.00	Set a limestone 18x12x8 ins. 12 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, marked 1 notch on S; 5 notches E edges, and raise a mound of stone 2 ft. base, 1½ ft. high W of cor. Pits impracticable.
	Land broken.
	Soil sandy and stony; 2d. and 3d. rate.
	No timber.
	Sage brush and shadscale.
	Mountainous land on 80. chs.

	East on a random line bet. secs. 29 and 32.
40.00	Set temp. ¼ sec. cor.
79.96	Intersect N and S line 5 lks. N of cor. of secs. 28, 29, 32 and 33.

Chains	
	Thence I run
	N 39° 58'W on a true line bet.secs. 29 and 32.
	Descend over bench in dense cedars.
3.30	Leave bench;descend precipitous slope. Leave cedars.
12.50	Bottom of hollow 150 ft.below bench drains SW. Ascend.
16.00	Top of bench spur,150 ft.above hollow,projects SW.
	Descend.
21.00	Enter bench,bears N and S. Descend gradually over same.
26.00	Wood road bears NE and SW.
39.98	Set a limestone 15x9x4 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
75.00	Wash 75 lks.wide,20 ft.deep,drains S 15° W. Ascend.
78.00	Top of ridge spur,40 ft.above wash,projects SW. Descend.
79.96	The cor.of secs. 29,30,31,and 32.
	Land broken and rolling.
	Soil sandy and rocky;2d.and 3d.rate.
	Timber,cedars on 3.30 chs.
	Sage brush;some grass.
	Mountainous land on 79.96 chs.
	Knowing that I will not strike the cor.of secs.25,30,31 and 36 within limits,I run
	West on a true line bet.secs. 30 and 31.
	Descend over broken mountainous country,in sage brush.
3.40	Bottom of hollow 40 ft.below cor. drains S. Ascend.
9.85	Wood road bears NE and SW.
15.00	Spur from hill 75 ft.above hollow,projects S 15° E.
	Descend.
16.00	Gully 20 ft.deep,drains S 2 chs.then SW. Ascend.
26.77	Top of hill spur,150 ft.above gully,projects SW. Descend.
29.40	Head of hollow,drains SW. Ascend.
35.00	Top of hill spur,75 ft.above head of hollow,projects S 60° W
	Descend.
40.00	Set a quartz 18x6x5 ins.12 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.base 1½ ft.high N of cor. Pits impracticable.

Chains	
64.50	Bottom of hollow 200 ft.below spur,drains S 10° W.
	Ascend.
70.00	Enter bench 75 ft.above hollow,bears NE and SW.
78.50	Leave bench;descend precipitous slope.
84.15	Intersect W bdy.of Tp.4.95 chs.N of cor.of secs. 25,30, 31,and 36,heretofore described.
	At intersection,set a quartzite 20x10x4 ins.15 ins.in the ground,for closing cor,of secs. 30 and 31,marked 1 groove on S;5 grooves on N,and C C on E face,and raise a mound of stone 3 ft.base 1½ ft.high E of cor. Pits impracticable.
	I destroy all marks on old cor.pertainong to secs.30 and 31.
	Land broken.
	Soil stony;3d.rate.
	No timber.
	Sage brush and shadscale. No grass.
	Mountainous land on 84.15 chs.

	October,24th.1906: I set off 11° 37' on the decl.arc,and at 11h.44m. a.m.,l.m.t., observe the sun on the meridian,and obtain on the lat.arc,the reading,40°31',which agrees with other data.
	Thence I run
	N 0° 4'W. bet.secs.29 and 30.
	Ascend along W slope of spur.
13.50	Top of ridge spur 25 ft.above cor.projects S 20° E.
	Descend.
18.75	Wood road bears NE and SW.
40.00	Set a limestone 14x7x4 ins. 9 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	At head of hollow draining S 10° E. Ascend.
47.00	Top of hill spur,100 ft.above head of hollow,projects SE.
	Descend.

SUBDIVISION. OF T.3 S.R 22 E.

Chains	
57.25	Bottom of hollow 100 ft.below spur,drains NW. Ascend.
61.55	Top of ridge spur,100 ft.above hollow,projects NW. Descend.
66.50	Bottom of hollow 75 ft.below spur,drains W. Ascend.
70.00	Top of ridge spur 100 ft.above hollow,projects W. Descend.
74.30	Bottom of hollow 200 ft.below top of spur,drains N 75° W. Ascend.
77.00	Top of ridge spur,150 ft.above hollow,projects W. Descend.
80.00	Set a limestone 12x10x8 ins.8 ins.in the ground,for cor.of s secs.19,20,29,and 30,marked 2 notches on S;5 notches on E, edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.
	Soil,stony;3d.rate.
	No timber. Sagebrush and shadscale.
	Mountainous land on 80 chs.
	On account of high broken mountains abandon survey east. Knowing that I will not strike the cor.of secs.19,24,25, and 30,on W bdy.of Tp.within limits
	I run
	West on a true line bet.secs. 19 and 30.
	Descend,over mountainous land,in white sage,
2.15	Bottom of hollow 50 ft.below cor.drains SW. Ascend.
8.00	SW point of bench spur,25 ft.above hollow;descend.
12.00	Enter flat hollow,drains N 70° W. Wash 5 lks.wide,2 ft. deep in hollow,drains SW.
19.50	Wash 15 lks.wide,8 ft.deep,drains N 75° W. Ascend.
30.00	Top of hill spur,75 ft.above hollow,projects N. Descend.
36.20	Bottom of hollow,60 ft.below spur,drains N. Ascend.
38.50	Top of hill spur,30 ft.above hollow,projects N. Descend.
40.00	Set a limestone 18x12x6 ins.12 ins.in the ground,for ¼ sec.cor. marked ¼ on N face,and raise a mound of stone 2 ft.base.1½ ft.high N of cor. Pits impracticable.
43.15	Bottom of hollow 60 ft.below spur,drains N. Ascend.

Chains

49.00 Top of hill spur,100 ft.above hollow,projects N. Descend.

50.00 Enter flat;now down S side of hollow,100 ft.below spur.

54.19 Intersect W bdy.of Tp.4.95 chs.N of cor.of secs. 19,24,25, and 30,heretofore described.

At intersection,set a sandstone 20x10x8 ins.16 ins.in the ground,for closing cor.of secs. 19 and 30,marked 2 grooves on S;4 grooves on N face;C C on E face,and raise a mound of stone 2 ft.base,1½ ft.high E of cor. Pits impracticable.

I destroy all marks on old cor.pertaining to secs. 19 and 30.

Land mountainous.

Soil stony;2d.rate.

No timber.

White sage;no grass.

Mountainous land on 54.19 chs.

N 0° 4'W.bet.secs. 19 and 20.

Descend.over mountainous land,in white sage.

1.15 Bottom of hollow 75 ft.below cor. drains SW. Ascend.

10.00 Top of bench spur,200 ft.above hollow,projects SW. Descend.

17.50 Enter bench,50 ft.below spur,bears NE and SW. Now across same;descending gradually;enter cedars.

35.00 Leave bench;descend. Leave cedars.

40.00 Set a limestone 14x9x4 ins. 9 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.

55.00 Bottom of hollow 150 ft.below bench,drains SW. Ascend.

60.34 Top of ridge spur,100 ft.above hollow,projects S 70° W. Descend.

65.00 Head of hollow drains SW. Ascend.

71.50 Top of ridge spur 50 ft.above head of hollow,projects NW. Descend.

75.00 Bottom of hollow 100 ft.below spur drains NW. Ascend.

SUBDIVISION OF T.3 S.R 22 E.

Chains	
80.00	Set a sandstone 18x14x6 ins.12 ins.in the ground,for cor. of secs.17,18,19,and 20,marked 3 notches on S;5 notches on E,edges,and raise a mound of stone 2 ft.base,1½ ft.high W of cor. Pits impracticable.
	Land mountainous.
	Soil stony;3d.rate.
	Timber,scrub cedars on 21.50chs.
	White sage;no grass.
	Mountainous land on 80.chs.

	East on a random line bet.secs. 17 and 20.
40.00	Set temp.¼ sec.cor.
80.09	Intersect N and S line 12 lks.N of cor.of secs. 16,17,20,a and 21.
	Thence I run
	N.89°55'W.on a true line bet.secs. 17 and 20!
	Ascend.over mountainous land;in sage brush and shadscale.
2.25	Top of hill spur,100 ft.above cor.projects S. Descend.
12.00	Bottom of hollow 200 ft.below spur,drains NW. Ascend.
17.50	N slope of spur,75 ft.above hollow;descend.
28.00	Bottom of hollow,80 ft.below slope of spur,drains SW. Ascend.
36.00	Top of hill spur,150 ft.above hollow,projects SW. Descend.
40.04½	Set a limestone 18x10x4 ins.12 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base.1½ ft.high N of cor. Pits impracticable.
56.00	Bottom of hollow 150 ft.below spur,drains S 20° W. Ascend.
65.00	Top of hill spur,150 ft.above hollow,projects S 15° W. Descend.
80.09	The cor.of secs. 17,18,19,and 20.
	Land mountainous.
	Soil clay and cobble;3d.rate.
	No timber.

SUBDIVISION OF T 3 S.R 22 E.

Chains	
	Sage brush and shadscale;no grass.
	Mountainous land on 80.09 chs.
	(October,24th.1906.

	October,25th.1906: At 7h.44m.,a.m.,l.m.t., I set off 40° 3 on lat.arc;11°53' S on decl.arc and determine a meridian wi the solar at the cor.of secs. 17,18,19,and 20.
	Knowing that I will not strike the cor.of secs.13,18,19, and 24,on W bdy.of Tp.within limits
	I run
	West on a true line bet.secs. 13 and 19.
	Descend.over mountainous land in white sage and sha[illegible].
2.20	Bottom of hollow 25 ft.below cor,drains NW. Ascend.
14.78	Top of ridge spur,100 ft.above hollow,projects NW.
	Descend.
20.50	Bottom of hollow 50 ft.below spur,drains NW. Ascend.
24.65	Top of ridge spur,50 ft.above hollow,projects NW.
	Descend.
40.00	Set a limestone 15x8x3 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
	In broad hollow draining NW. Ascend.
50.00	Top of round knoll 75 ft.above hollow;descend.
56.10	Bottom of hollow 100 ft.below top of knoll,drains S 20° W.
	Ascend.
63.00	Top of bench spur,100 ft.above hollow,projects S. Descend
66.00	Bottom of hollow 40 ft.below spur,drains SE. Ascend.
71.40	Enter bench,50 ft.above hollow,bears N and S.
	Now across same.
84.18	Intersect W bdy.of Tp.5.00 chs.N of cor.of secs.13,18,19 and 24,heretofore described.
	At intersection,set a sandstone 20x10x8 ins. 15 ins.in the ground,for closing cor.of secs.18 and 19,marked 3 grooves on S;3 grooves on N face;C C on E face,and raise a mound of stone 2 ft.base,1½ ft.high E of cor. Pits impracticable
	Land broken.

SUBDIVISION OF T.3 S.R .2 F.

Chains

Soil stony;3d.rate.

No timber.

White sage;no grass.

Mountainous land on 84.18 chs.

N.0° 4'W.bet.secs. 17 and 18.

Descend.over mountainous land in salt sage and white sage,

6.00 Bottom of hollow,20 ft.below cor.drains W. Ascend.

15.00 Top of hill spur,100 ft.above hollow,projects W. Descend.

23.45 Bottom of hollow 150 ft.below spur,drains W. Ascend.

34.29 Top of hill spur,150 ft.above hollow,projects W. Descend.

40.00 Set a limestone 12x10x4 ins.8 ins.in the ground,for ¼ sec.cor.marked ¼ on W face,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable.

41.50 Bottom of hollow 50 ft.below spur,drains NW. Ascend.

43.50 Top of hill spur,50 ft.above hollow,projects NW. Descend.

46.00 Bottom of hollow 75 ft.below spur,drains N 70° W. Ascend.

56.00 Top of hill spur,75 ft.above hollow,projects NW. Descend.

68.25 Bottom of hollow 100 ft.below spur,drains S 75° W. Ascend.

71.00 Old mail road bears E and W. Enter scattering cedars.

79.00 Top of ridge spur 100 ft.above hollow,projects SE. Descend.

80.00 Set a limestone 24x14x6 ins. 18 ins.in the ground,for cor. of secs. 7,8,17,and 18,marked 4 notches on S;5 notches on E edges,and raise a mound of stone 2 ft.base 1½ ft.high W of cor. Pits impracticable. Whence

A cedar 5 ins.diam.bears S.43°15'W. 16 lks.dist.marked T 3 S.R 22 E.S 18 B T.

A cedar 6 ins.diam.bears N 15°00'W. 63 lks.dist.marked T 3 S.R 22 E.S 7 B T.

No other trees within limits.

Land broken.

Soil stony;3d.rate.

Timber,cedars on 29.00 chs.

SUBDIVISION OF T.3 S.R 22 E.

Chains	
	Salt sage and white sage;no grass.
	Mountainous land on 80.chs.

	S.89°55'E.on a random line bet.secs.8 and 17
40.00	Set temp.¼ sec.cor.
80.00	Intersect N and S line 44 lks.S of cor.of secs. 8,9,16, and 17.
	Thence I run
	S.89°46'W on a true line bet.secs.8 and 17.
	Descend down S side of hollow,in sage brush and white sage
19.85	Bottom of hollow,75 ft.below cor.drains SW. Ascend.
26.00	Old mail road bears NE and SW.
37.50	Enter scattering cedars;leave sage.
38.00	Leave same. Re-enter sage brush.
40.00	Set a limestone 16x9x6 ins. 11 ins.in the ground,for ¼ sec.cor.marked ¼ on N face, whence
	A cedar 5 ins.diam.bears S 58°15'E. 215 lks.dist.marked ¼ S 17 B T.
	A cedar 10 ins.diam.bears N 69°30'E. 271 lks.dist.marked ¼ S 8 B T.
42.35	Top of ridge spur,75 ft.above hollow,projects SW. Descend
53.00	Wash 20 lks.wide,10 ft.deep,drains SW.
62.75	Same wash drains NW.
69.50	Same wash drains SW. Ascend.
74.00	SW point of ridge spur;descend;re-enter cedars.
76.25	Bottom of hollow 50 ft.below point of spur,drains S 10° W.
	Ascend 100 ft.to cor.
80.00	The cor.of secs. 7,8,17,and 18.
	Land rolling and broken.
	Soil clay and stony,3d.and 3d.rate.
	Timber,cedars on 6.50 chs.
	Sage brush and white sage.
	Mountainous land on 80.chs.

	October,25th.1906: I set off 11° 58'S.on the decl.arc;and

SUBDIVISION OF T 3 S.R 22 E.

Chains	
	at 11h.44m.15s.,a.m.,l.m.t., observe the sun on the meridian and obtain on the lat.arc,the reading 40°34' which agrees wi other data.
	The land north of this cor.being broken mountains unfit for agriculture,I do not survey it.
	Knowing that I will not strike the cor.of secs,7,12,13,and 18,on W bdy.of Tp.within limits
	I run
	West on a true line bet.secs.7 and 18.
1.00	Ascend along broken slope in cedars.
35.00	Top of reef 350 ft.above cor.bears N.70° E and S 70° W.
	Descend. Leave cedars;enter white sage.
40.00	Set a sandstone 14x10x5 ins. 10 ins.in the ground,for ¼ sec.cor.marked ¼ on N face,and raise a mound of stone 2 ft.base,1½ ft.high N of cor. Pits impracticable.
56.50	Enter flat,inSteinnackerDraw,bears NE and SW.
81.75	Road to saw mills bears NE and SW.
84.16	Intersect W bdy.of Tp.5.04 chs.N of cor.of secs. 7,12,13, and 18,heretofore described.
	At intersection,set a sandstone 18x12x8 ins.12 ins.in the ground,for closing cor.of secs. 7 and 18,marked 2 grooves on N;4 grooves on S;faces,C C on E face,and raise a mound of stone 2 ft.base,1½ ft.high E of cor.Destroy marks on the old cor.pertaining to secs.7 and 18.
	Land mountainous and level.
	Soil clay and stony,2d.and 3d.rate.
	Timber,cedars on E.35.chs.
	Salt sage;no grass.
	Mountainous land on 56.50 chs.
	(October,25th.1906.

GENERAL DESCRIPTION.

This township contains a variety of soils from sandy loam along the narrow bottoms along Brush creek in the Eastern part to clay and gravel in the broken,hilly portions in the south and west central part,and sand and sandstone ledge

and red clay in the northwestern portion.

The surface of this township is,for the most part,very bro ken;the eastern part is well watered by Brush creek,which flows the entire length of the township,entering it on N line of Sec.5,and flowing in a general southeasterly and e easterly direction and leaving the township near its south east corner.

The bottom along Brush creek is narrow,but easily irrigated,and a number of small farms are cultivated along it;the benches lying contiguous to this stream are too high above the stream bed to be irrigated at reasonable expense.

The following are the settlers in this township:

Ed.Brian is cultivating about 50 acres in SE¼ SW¼ Sec.3,and NE¼NW¼ Sec.10,his improvements consist of a two room log cabin, stables,corrals and wire fence around cultivated ground,value of his improvements, $800.

Chris Knudtson cultivates about 60 acres of land in S part of Sec.11 and N part of Sec.14,he has a log house, stable,corrals,orchard,and wire and pole fence around his cultivated ground,value of his improvements $1000.

Ira Bryant cultivates 50 acres of land immediately surrounding the cor.of secs. 13,14,23,and 24,he has a two room log house,stables,corrals,orchard,and wire fence around his cultivated ground,value of his improvements,$1200.

Mrs,Caldwell cultivates about 6 acres in alfalfa in SE¼ Sec.24,has a log hous,stable corrals,and fence around about 40 acres of land,value of her improvements,$400.

C.Showalter cultivates about 40 acres of land in SE¼ Sec.25,has two room log hous,stables,corrals,and wire fence around about 100 acres of land,value of his improvements, $1000.

John Evans cultivates about 40 acres of land in E ½ of Sec.36,has a log house,stables,corrals,and fence around about 100 acres of land value of improvements,$1000.

The remainder of the township is poorly watered and is of

SUBDIVISION OF T.3 S.R 22 E.

no value except for winter range for sheep.

Portions of the northen and central parts of the township are covered with cedars valuable only for fuel and fencing. There are indications of coal in secs.18,10 and 11,but the amount of developement work done thereon is not sufficient to determine its extent or value;however,surface indications justify the classification of the following legal subdivisions as coal lands:- NW$\frac{1}{4}$ and NW$\frac{1}{4}$ NE$\frac{1}{4}$ Sec.18;N $\frac{1}{2}$ SW$\frac{1}{4}$ and SW$\frac{1}{4}$ NE $\frac{1}{4}$ Sec.10; NW$\frac{1}{4}$ Sec.11.

There are no indications of gold,silver,cinnabar,lead, copper,iron,asphaltum,or th e salines in this township.

Edgar F Harmston

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 Edgar F. Harmston, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the subdivision lines of T. 3 S., R. 22 E., S.L.B.& M., Utah, showing the respective capacities in which they acted:

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Edgar F. Harmston, United States Deputy Surveyor, in surveying all those parts or portions of the subdivision lines of T. 3 S., R. 22 E. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Charles L. Bailey, *Chainman.*

Craig Harmston, *Chainman.*

Mellette Harmston, *Moundman.*

Moundman.

Bert Shisler, *Axman.*

Axman.

Bradner Bailey, *Flagman.*

Subscribed and sworn to before me this 9th day of August, 1907. ~~135~~

SEAL

Ward E. Pack Jr.

Notary Public.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Edgar F. Harmston, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob B. Blair United States Surveyor General for Utah, bearing date of the 19th day of December, 1899, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of subdivision lines of T. 3 S. R. 22 E. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Edgar F. Harmston
United States Deputy Surveyor.

Subscribed by said Edgar F. Harmston, and sworn to before me this 9th day of August, 1900.

SEAL

Jas. O. Hacking
Clerk of the 4th Dist. Court of Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 11 1908

The foregoing field notes of the survey of the subdivisional lines of Township No. 3 South, Range No. 22 East of the Salt Lake Base and Meridian, Utah executed by Edgar F. Harmston under his contract No. 235, dated December 11, 1899, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

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

United States Surveyor General.

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