Volume

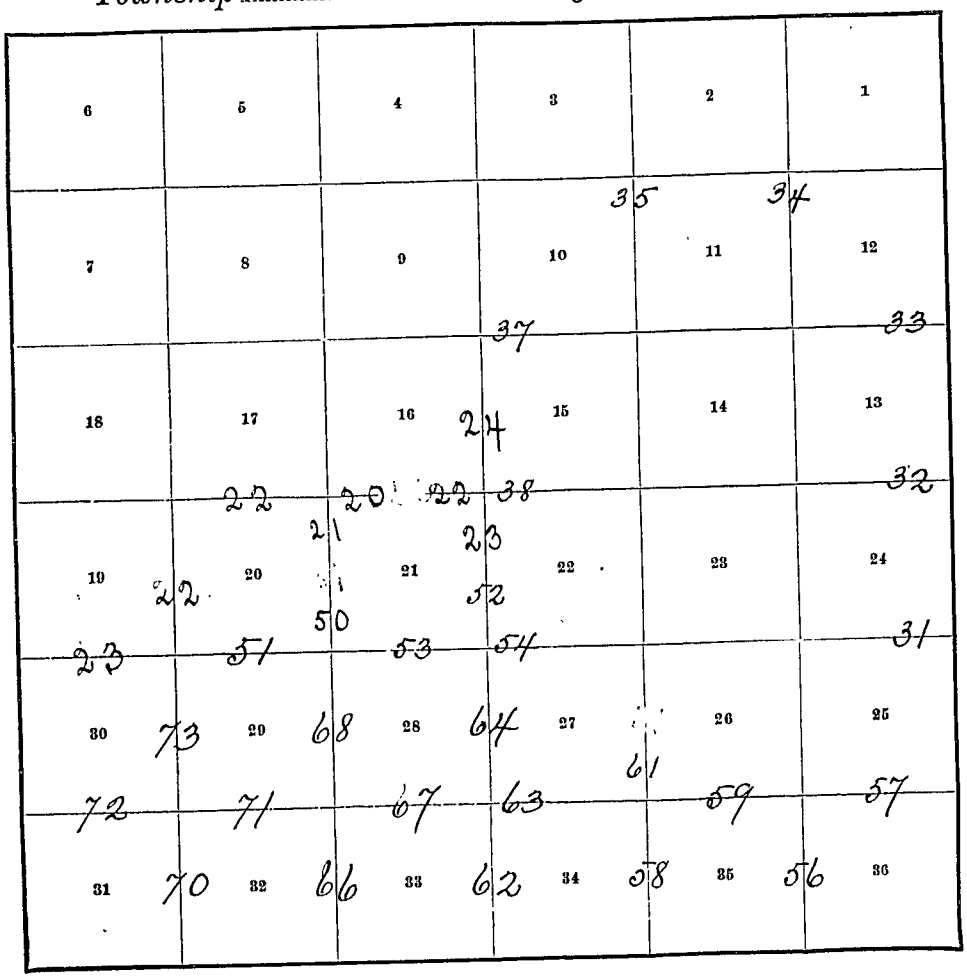
#

R0306

BOOK A-305

INDEX DIAGRAM.

Township 2 S., *Range* 1 E.



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Resurvey Ft. Du Chesne Mil. Res. ps. 24 to 30.

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

.....

BOOK A-305

INDEX DIAGRAM.

Township 2 S., *Range* 1 W.

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31	32	33	34	35	36

Meanders Page

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

SEAL

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

.....

....., *Axman.*

....., *Axman.*

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

SEAL

.....

.....

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

....., *Flagman.*

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

SEAL

.....

.....

BOOK A-306

INDEX DIAGRAM.

Township 1 S., *Range* 2 E.

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Meanders Page

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

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....., *Axman.*

....., *Axman.*

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

.....

SEAL

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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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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 plats 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
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Subscribed and sworn to before me this .....
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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
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..... *Moundman.*

..... *Moundman.*

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

.....

.....

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

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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 .....
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..... *Flagman.*

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

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BOOK A-306

INDEX DIAGRAM.

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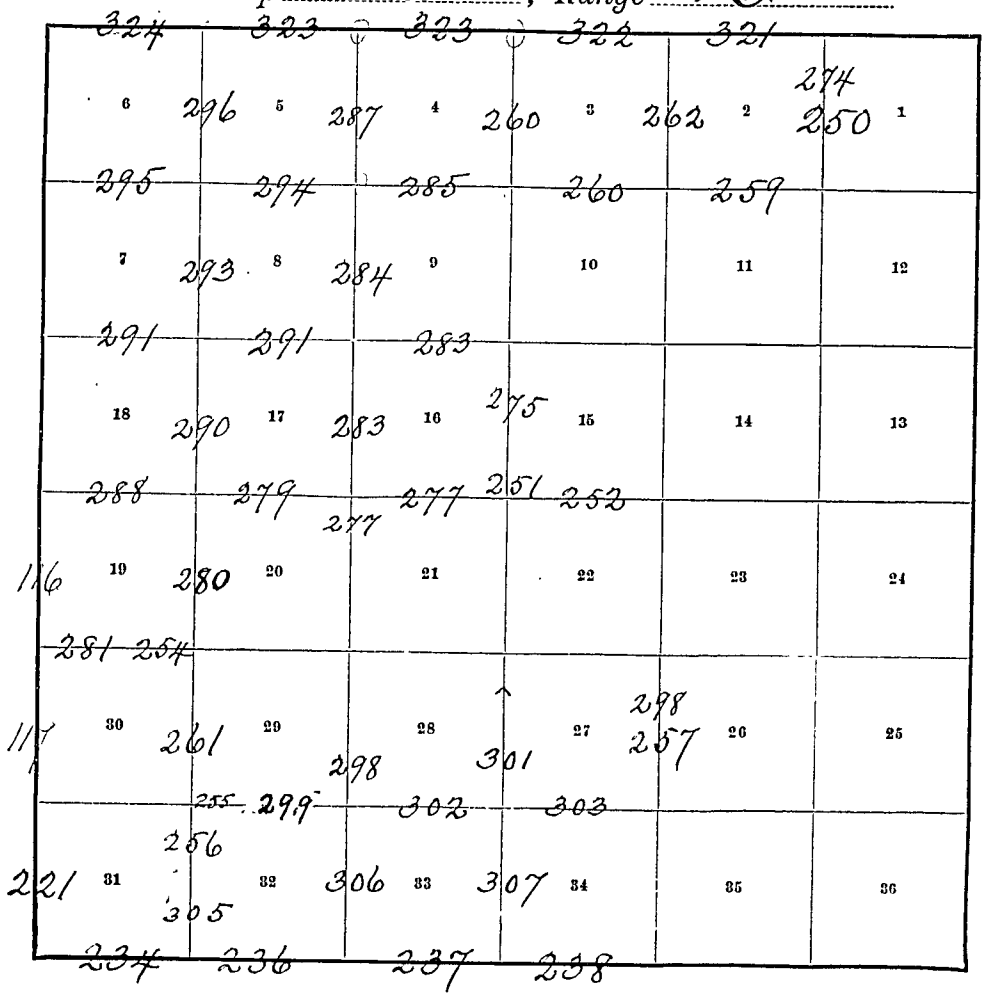

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Subscribed and sworn to before me this .....
day of ....., 189

.....

SEAL

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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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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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.....

....., *Chainman.*

....., *Chainman.*

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

SEAL

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

....., *Moundman.*

....., *Moundman.*

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

SEAL

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

....., *Axman.*

....., *Axman.*

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

SEAL

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

....., *Flagman.*

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

SEAL

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31	32	33	34	35	36

Meanders Page

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.....

..... *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

15

15

4—670.

A.

FILED

JAN 4 1904

BOOK A-306

L.H.

FIELD NOTES

OF THE SURVEY OF THE

Retracement and Resurvey of Subdivisional Lines

of

Township No. 2 South Range No. 1 East

and

Resurvey of the Boundaries

of the

Fort Duchesne Military Reservation

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robt. E. L. Collier and Harry Ragan, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 269, dated July 22, 1903 ~~189~~

Retracement and Resurvey ~~Survey~~ commenced Sept. 9th 1903 ~~189~~

Retracement and Resurvey ~~Survey~~ completed Sept. 13th 1903 ~~189~~

1—141

Lines of high	269.89 ✓	
" Low	1-11.00 ✓	
Retracement Lines		4 78 42 ✓
Closing "		4 37 79 ✓
Resurvey of Boundary of Bdy	10.01.18 ✓	

BOOK A-305

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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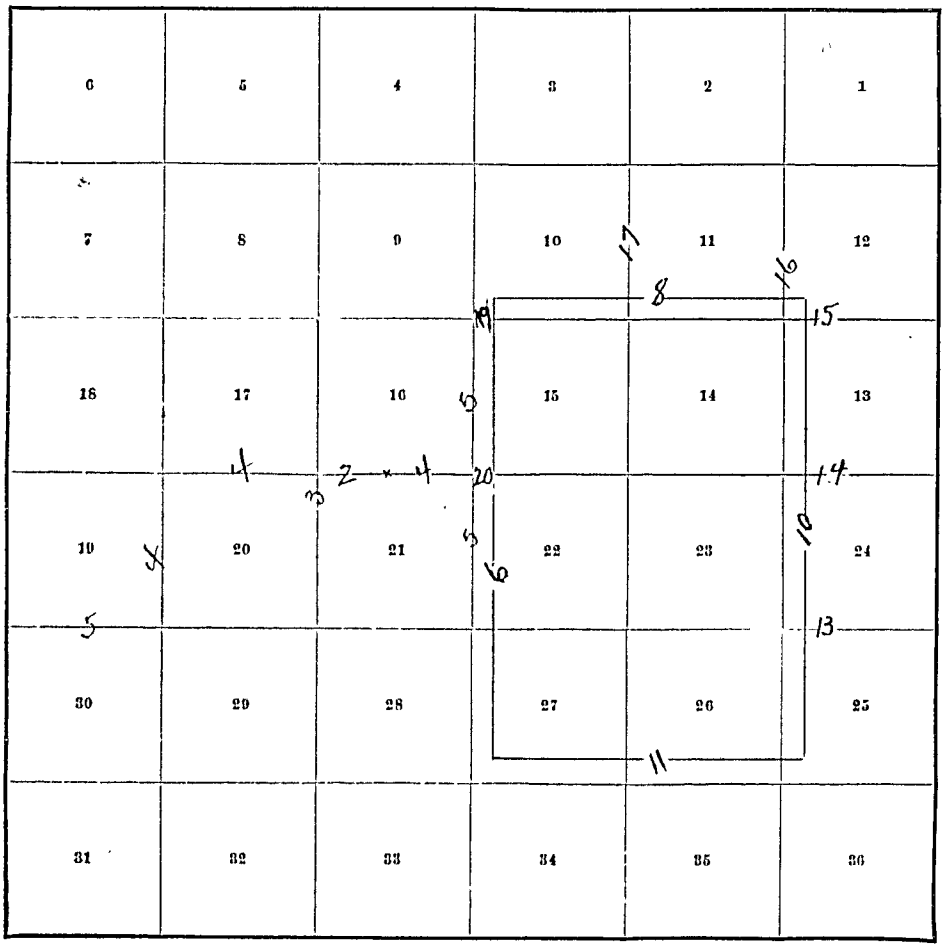
Volume
#
R0306

BOOK A-305

INDEX DIAGRAM.

Township 2 S, , *Range* 1 E,



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, A. B. Larson and Edward McKee 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~~ relocation and Resurvey of subdivisional Lines of T. 2 S. R. 16 E. Uintah Special Base and Meridian Resurvey of the Boundaries of the Fort Duchesne Military Reservation.

[signature], Chainman.

[signature], Chainman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. McAthurson
Notary Public

I ~~We~~, Robt Douglas ~~and~~ do solemnly swear that I ~~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 of~~ relocation and Resurvey of Subdivisional lines of T. 2 S. R. 16 E. Uintah Special Base and Meridian Utah, and Resurvey of the Boundaries of the Fort Duchesne Military Reservation.

[signature], Moundman.

[signature], Moundman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. McAthurson
Notary Public

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, C. E. Whiteman, 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~~ relocation and Resurvey of subdivisional lines of T. 2 S. R. 16 E. Uintah Special Base and Meridian Utah, and Resurvey of the Boundaries of the Fort Duchesne Military Reservation.

[signature], Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McAthurson
Notary Public

6—151

Resurveys and Retracements of T. 2 S. R. 1 E.
Chains

Survey commenced Sept. 9 1903 and executed with a W. and L. E. Gurley light mountain transit No number, with solar attachment. The horizontal limb is provided with double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers on the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah Sept 5 1903

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

At a point 40 chs South of the cor of secs. 16, 17, 20 and 21 latitude 40°18' N. longitude 109°56' W. I set off 40°18' N. on the lat. arc; 5°31' N. on the decl arc; and at 3h 00m p. m. l. m. t., determine with the solar a meridian and mark a point thereon on a stone firmly set in the ground, 5 chs. N. of my station

At 8h 14m p. m. by my watch which is 4m 00s slow 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 rock firmly set 5 chs. N. of my station

Sept 10 at 7h a. m. l. m. t. I lay off the azimuth of Polaris 1°35' to the

Resurveys and Retracements of T. 25 R. 16 E.

Chains

determined by cutting a small groove in the stone set Sept 9 on which the meridian falls 0.4 ins East.
at 8h 00m a.m. l.m.t., I set off 40°18' N. on the lat. arc; 5°16' N. 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. 0.5 ins. E. of the meridian
The solar apparatus defines the position for meridian, by p.m. and a.m. observations, respectively about 0'21" W. and 0'26" East of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory
The magnetic bearings of the true meridian, at 8h 30m a.m. is N. 16°12' W.; the angle thus determined gives the magnetic decl. 16°12' E.

At a point 40.00 chs S. of the cor of secs. 16, 17, 20 and 21 after a diligent search no trace of old 1/4 sec. cor could be found I retrace North and at 40.00 chs I found a sandstone 8x7x6 ins above ground but no marks visible I therefore retrace East and at 40.18 chs intersect 1/4 sec. cor. bet. secs. 16 and 21 which is a sandstone 10x6x5 ins. above ground marked and witnessed as described by the surveyor general thence I run West on a Resurvey line bet. secs. 16 and 21 ascend abruptly

Resurvey and Retracement of T. 2 S. R. 1 E.

Chains	
9.80	Top of steep ascent, thence gradual descent
20.08	Wire fence bears N. and S. Enter field
39.98	Canal 15 lks wide 6 ins deep drains S.
40.18	Intersect the sandstone 8×7×6 ins. above ground which agrees with the description given by the surveyor general, and the line between secs. 16 and 21 practically agrees with the notes of former survey. I therefore mark the stone with 3 notches on the South and 4 notches on the east edges; for cor of secs 16, 17, 20 & 21 dig pits 18×18×12 ins. in each sec. 5½ ft. dist.; and raise a mound of earth 4 ft. base 2 ft high W. of cor.
	Land, mountainous.
	Soil, rocky and sandy loam 4th and 2nd rates
	No timber
	Mountainous land on 40.18 chs.
	South on resurvey line bet. secs. 20 and 21 Over slightly descending ground along W. bank of canal drains S.
40.00	As no trace of old ¼ sec. cor. could be found I set a cobble-rock 14×8×6 ins. 9 ins. in the ground for re-established ¼ sec. cor. marked ¼ on W. face; dig pits 18×18×12 ins, N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high. W. of Cor.
	Land, mountainous
	Soil, loam 1st rate
	No timber
	Mountainous land on 40.00 chs.
	At this cor. I set off 5°11'N. on the decl. arc; and at 12h 00m l.m.t. observe the sun on the meridian; the resulting lat. is 40°18'N. or within 1' of the proper lat.

Resurvey and Retracements of T. 2 S. R. 1 E.

Chains	
	sec. 20 I begin at the cor. of secs. 19, 20, 29 and 30 which is a sandstone 6x12x8 ins. above ground, marked and witnessed as described by the surveyor general. Thence I run North on a retracement line bet. secs. 19 and 20
39.26	Fall 9 lks W. of the 1/4 sec. cor. which is a sandstone 5x8x6 ins. above ground marked and witnessed as described by the surveyor general
79.58	Fall 19 lks. W. of the cor. of secs. 17, 18, 19 and 20 which is a sandstone 5x8x8 ins above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N. 0° 08' E. and is 79.58 chs. in length.
	To complete the checking of closings of sec. 20 I begin at the cor. of secs. 17, 18, 19 and 20 heretofore described. Thence I run East on a retracement line bet. secs. 17 and 20
39.90	Fall 1 lk. S. of the 1/4 sec. cor. which is a sandstone 8x7x6 ins. above ground marked and witnessed as described by the surveyor general
79.80	I intersect the re-established cor. of secs. 16, 17, 20 and 21. The course of this line is therefore East and is 79.80 chs. in length.
	To be able to check the closings of Sec. 21 the west half of the North Bdy. having been previously resurveyed, I begin at the 1/4 sec. cor. bet. secs. 16 and 21 heretofore described. Thence I run East on a retracement line bet. sec. 16 and 21

Resurvey and Retracement of T. 2 S. R. 1 E.

Chains	
	which is a sandstone 5 x 11 x 5 ins. above ground marked and witnessed as described by the surveyor general The course of this line is therefore East and is 40.18 chs. in length
	To complete the checking of secs. 21 I begin at the cor. of secs. 15, 16, 21 and 22 heretofore described Thence I run S. on a retracement line bet. secs. 21 and 22
39,97	Fall in 1 lks. E. of the 1/4 sec. cor. bet. secs. 21 and 22 heretofore described The course of this line is therefore S. 0° 10' W. and is 39,97 chs. in length.
	To check the closings of the lines bet. secs. 19 and 30 and 30 and 31 on the Uintah Special Meridian I begin at the cor. of secs. 19, 20, 29 and 30 heretofore described Thence I run West on a true line bet. secs. 19 and 30
39.90	Intersect the 1/4 sec. cor. which is a sandstone 6 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general
79,20	Intersect the Uintah Special Meridian 1 lk. N. of the cor. of secs. 19, 24, 25 and 30 which is a sandstone 10 x 12 x 6 ins. above ground, marked and witnessed as described by the surveyor general The course of this line is therefore West and is 79,20 chs. in length.
	Knowing from previous retracements that the line bet secs. 15 and 16 is out of limit in course I begin at the cor. of secs. 15, 16, 21 and

Resurvey and Retracement of T. 2 S. R 1 E.

Chains	
	retracement line bet. secs. 15 and 16
39.99	Fall 27 lks. E. of the 1/4 sec. cor. which is a sandstone 6 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general
79.60	Fall 52 lks. East of the cor. of secs. 9, 10, 15 and 16 which is a sandstone 8 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general
	The course of this line is therefore N. 0° 22' W. and is 79.60 chs. in length.
	Sept 10 at the S. W. Cor. of the Fort Duchesne Military Reservation which is an iron post 30 x 6 x 6 ins. above ground marked U.S. M.R.S. W. Cor. on the N. and E. faces; I set off 40° 17' N. on the lat. arc; 5° 09' N. on the decl. arc; and at 3h 00m p.m. l. m. t. determine a meridian with the solar
	Thence I run
	North on a resurvey line on the W. Bdy of the Fort Duchesne Military Reservation over slightly descending ground through greasewood and shadscale undergrowth
2.50	Bottom of descent, begin gradual ascent bears E. and W.
13.50	Foot of rocky ridge bears E. and W. begin more abrupt ascent.
24.50	Top of steep ascent bears E. and W. 175 ft above beginning, thence over rolling bench
46.30	Begin steep descent into Battle Canon bears E. and W.
[illegible]	Bottom of Battle Canon drains E. 125 ft. below beginning of steep descent
49.50	New Stage Road, Price to Vernal bears E. and W.
51.25	Begin steep ascent bears E. and W.
54.10	Top of steep ascent bears N. 75° E. and W. thence along top of bench
83.35	Begin steep descent bears E. and W.
86.50	Bottom of steep descent begin gradual

Resurvey and Retracement of T. 2. S. R. 1 E.

Chains	
	descent
89.75	Bottom of canon drains E. Stream of drainage water 4 ft. wide 6 ins deep. drains E. ascend gradually
96.00	Begin steep and rocky ascent bears E and W.
100.35	Top of steep and rocky ascent 150 ft above beginning thence over rolling bench
113.00	Begin steep descent bears. S. E and W.
119.00	Bottom of gulch drains. N. 75° E. 75 ft below Beginning of steep descent. ascend
121.40	Top of spur projects E. thence along top of bench.
124.50	Begin abrupt descent bears. S. E and W.
128.80	Bottom of gulch drains E. 75 ft below beginning of abrupt descent. ascend
131.25	Top of spur projects E. 25 ft above gulch
134.90	Road bears. E. and W. descend
136.80	Bottom of gulch drains E. ascend
145.70	Wash 4 ft deep 10 ft wide drains S. E.
147.00	Top of ascent bears. N. W and S. E. thence along top of bench.
152.90	Road bears. N. 60° W. and S. E.
161.00	Begin steep descent bears N. 75° W and S. E.
166.40	Bottom of gulch drains E. begin abrupt ascent bears N. E and W.
169.00	Top of spur projects E. descend
170.00	Bottom of descent, ascend.
179.60	Begin abrupt descent bears. S. E and W.
182.50	Bottom of gulch drains E. begin steep ascent.
184.00	Top of bench bears E and W. 75 ft above gulch thence along top of same
208.40	Begin abrupt descent bears. E and W.
211.00	Old road bears. E and W.
211.40	Bottom of gulch drains E. 100 ft below beginning of abrupt descent; ascend.
214.00	Top of bench 100 ft above bottom of gulch bears. E and W. thence along

Resurvey and Retracement of T. 25 S. R. 1 E.

Chain

top of same.

22100 Begin descent bears N. W and S. E.

22900 Bottom of gulch drains S. E. stream of drainage water 5 lks wide 6 ins. deep course S. E. ascend

23900 Begin steep ascent bears N. W and S. E.

24028 Fall 90 lks W of the N. W. cor of the Fort DuChesne Military Reservation which is an iron post 30 x 6 x 6 ins above ground marked U. S. M. R. N. W. Cor on S. and E. faces; therefore the West bdy of the Fort DuChesne Military Reservation bears N. 0°13' E. and is 24028 chs. in length.

Land Mountainous

Soil rocky and stony 4th rate

No Timber; Greasewood and shadscale undergrowth on 24028 chs.

Mountainous land on 24028 chs.

Sept 10, 1903

Sept 11, 1903 at 7h.00m a. m. l. m. t., I set off 40°26' N. on the lat. arc, 4°56' N. on the decl. arc. and determine a meridian with the solar at the N. W. cor. Fort DuChesne Military Reservation

Thence I run

E on resurvey line on the N. bdy Fort DuChesne Military Reservation

Descend gradually through shadscale and greasewood

1180 Begin abrupt descent bears N and S.

2250 Begin gradual descent bears. N and S. 100 ft below beginning of abrupt descent

2750 Begin abrupt descent bears. N and S.

2875 Begin gradual descent 50 ft below beginning of abrupt descent

3180 Telephone line Fort DuChesne to White Rocks bears. N and S.

Resurvey and Retracement of T. 25 R. 1 E.

Chains	
37.00	Road to white Rocks bears N. and S.
42.20	Begin abrupt descent into river bed bears. N and S.
43.00	Begin gradual descent enter cottonwood timber and dense undergrowth N. and S.
43.10	Road bears N. E. and S. W.
57.00	Branch of the Mintah River 40 lks wide 14 ins. deep drains S.
68.75	Road bears N. and S.
81.00	Right Bank of the Mintah River 60 lks wide 12 ins. deep course S. 15° E.
81.60	Left Bank of the Mintah River
86.65	Branch of the Mintah River 30 lks wide 8 ins deep drains S. ascend
108.00	Leave cottonwood timber and dense undergrowth bears N and S.
111.00	Old road bears N. E. and S. W.
134.50	Old road bears N W and S. E.
138.00	Top of ridge bears N and S. 75 ft above Mintah River descend
139.00	Old Road bears N. 60° E and S.
160.37	Fall 38 lks N. of the N. E. Cor of the Fort Du Chesne Military Reservation which is an iron post 30 x 6 x 6 ins above ground marked U. S. M. R. N. E Cor. on S and W. faces; therefore the N. bdy of the Fort Du Chesne Military Reservation bears S. 89° 52' E and is 160.37 chs in length

Land mountainous

Soil, Rocky and stony 3rd and 4th rates

Timber; cottonwood timber and dense undergrowth on 65.00 chs. Shadscale and greasewood undergrowth on 43.00 chs. Mountainous land on 160.37 chs.

Sept 11. At this cor. I set off 4° 49' N. on the decl arc and at 11h 57m a.m. l. m. t. observe the sun on the meridian; the resulting lat is 40° 19' N. or within 1' of the

Resurvey and Retracement of T. 2 S. R. 1 E.

Chains	
	proper lat.
	South on resurvey line on the E. bdy. Fort Duchesne Military Reservation ascend through shadscale and greasewood undergrowth
3.75	Road to Deep Creek bears NE. and S.W.
17.50	Dry wash 6 ft wide 5 ft deep drains S. W.
44.30	Road bears N. W. and S. E.
91.00	Foot of ridge bears N. E and S. W.
93.00	Top of ridge bears N. E and S. W. 30 ft above foot descend
94.25	Foot of ridge thence over gradual descending ground
141.00	Old road bears N. E and S. W.
158.75	Telephone line Fort Duchesne to Vernal bears. N. 70° E and S. 70° W.
164.00	Road from Price to Vernal bears N. 70° E and S. 70° W.
169.90	Dry wash 10 ft wide 6 ft deep drains S. 60° W.
170.50	Foot of ridge bears N. 60° E and S. 60° W. ascend
173.00	Top of ridge bears. N. 60° E and S. 60° W. 30 ft above foot
178.50	Descend over S. slope of ridge
179.50	Bottom of gulch drains S.W. 25 ft below top of ridge, ascend
186.00	Top of ridge bears. E and W. 35 ft. above gulch thence along top of bench.
195.50	Begin descent N. E and S. W.
216.50	Dry run drains S. 60° W.
217.50	Old road bears N. E and S. W. thence along level land
240.24	Fall 124 lks E. of the S. E. Cor. Fort DuChesne Military Reservation

Resurvey and Retracement of T. 25 S. R. 16.

Chains	
	which is an iron post 30×6×6 ins above ground marked U.S.M.R.S.6 Cor. on N.W. face; therefore the East Bdy of the Fort Duchesne Military Reservation bears S. 0°18' W. and is 240.24 chs in length.
	Land mountainous.
	Soil, rocky and stony 3rd and 4th rates
	No Timber, Greasewood and shadscale undergrowth on 240.24 chs
	Mountainous land on 240.24 chs.
	Sept 11, 1903 At 4h 00m p.m. l.m.t. I set off 40°17' N. on the lat. arc; 4°46' N. on the decl. arc; and determine a meridian with the solar at the S.E. Cor. of the Fort Duchesne Military Reservation. Thence I run West on resurvey line on the South Bdy. Fort Duchesne Military Reservation.
	Ascent through shadscale undergrowth
20.00	Descend from rocky bluff bears N. and S.
21.25	Foot of bluff 25 ft below top thence gradual descent
23.00	Road bears N.E. and S.W.
27.50	Dry wash drains N.W.
30.00	Begin gradual ascent
32.75	Road to Ouray bears N. and S.
41.00	Foot of rocky bluff bears N and S. begin step ascent
46.00	Top of spur projects S. 75 ft above beginning of step ascent
48.50	Bottom of gulch drains S.E. 40 ft below top of spur
53.00	Top of ridge 200 ft above bottom of gulch ~~bears N. and S. thence~~ along

Resurvey and Retracement of T. 2 S. R 1 E.

Chains

bench, heavy shadscale and greasewood undergrowth

56.45 Begin precepitous descent N. and S.

58.20 Left Bank of Uintah River 90 lks wide 6 ins deep course S. 200 ft below top of bench

59.10 Right Bank of Uintah River enter cottonwood timber and dense undergrowth N and S. ascend

76.00 heavy cottonwood timber N and S. Enter shadscale and greasewood ~~undergrowth~~

85.00 Road from Price to Vernal bears N. and S.

87.80 Telephone line Fort DuChesne to Price bears N. 24° E and S. 24° W.

88.00 Ascend along E. slope of rocky spur

91.00 Top of rocky spur projects S. 50 ft high, descend

94.00 Foot of spur 40 ft below top ascend gently

108.00 Dry wash 10 ft wide 5 ft deep drains S. E.

160.29 Fall 61 lks S. of the S. W. Cor. Fort DuChesne Military Reservation heretofore described; therefore the South Bdy of the Fort Duchesne Military Reservation bears N. 89° 47' W and is 160.29 chs in length.

Land mountainous

soil rocky and sandy 3rd and 4th rates

Timber, Cottonwood and dense undergrowth on 16.90 chs.
Shadscale and greasewood undergrowth on 137.29 chs

Mountainous land on 160.29 chs.

Sept 11, 1903

Sept 12 at 8h 00m a.m. I set off 40°18' N on the lat. arc. 4°30' N. on the decl arc. and determine a meridian with the solar

Resurvey Retracement of T. 25 S. R. 16 E.

Chains	
	At a point 68.40 chs N. 0°18' E of the S. E. cor. of the Fort DuChesne Military Reservation, at which point the line running West bet. secs. 24 and 25 should intersect the East bdy of the Reservation, I run East on random resurvey line bet secs. 24 and 25.
6.20	Fall 20 lks N. of a sandstone 8 x 10 x 6 ins above ground, firmly set but no marks visible
26.20	Fall 20 lks N. of a sandstone 6 x 8 x 6 ins above ground, firmly set but no marks visible *
46.20	Fall 20 lks N. of a sandstone 6 x 10 x 6 ins above ground firmly set but no marks visible
66.20	Fall 20 lks N. of the cor of secs. 19, 24, 25 and 30 which is a sandstone 9 x 8 x 7 ins. above ground marked and witnessed as described by the surveyor general thence I run West on a true resurvey line bet secs. 24 and 25
20.00	I intersect the sandstone heretofore described which I remark 1/16 on N. face
40.00	I intersect the sandstone heretofore described which I remark 1/4 on N. face. for reestablished 1/4 sec cor; dig pits 18 x 18 x 12 ins., E and W. of stone, 3 ft. dist. and raised a mound of earth, 3½ ft. base 1½ ft high N. of cor.
60.00	I intersect the sandstone heretofore described which I remark 1/16 on N. face
66.20	I intersect the E. bdy of the Fort DuChesne Military Reservation at a point from which the S. E. Cor. bears S. 0°18' W. 68.20 chs. dist. Set a sandstone 16 x 12 x 3 ins. 11 ins

Resurvey and Retracement of T. 25 S. R. 16 E.
Chains

in the ground for closing cor. of frac'l secs. 24 and 25 marked C. C. with 1 groove on E. F. D. C. M. R. on W. and 2 grooves on S. faces; and raised a mound of stone 2 ft. base 1½ ft. high E. of cor. Pits impracticable
Land, level
Soil, sandy and rocky 3rd and 4th rates
No timber.

Sept. 12, 1903 At 10h 00m a. m. l. m. t I set off 40°19'N. on the lat. arc. 4°28' on the decl. arc; and determine a meridian with the solar at a point 92.00 chs. S. 0°18' W of the N. E. Cor. of the Fort Du Chesne Military Reservation thence I run East on a random resurvey line bet secs. 13 and 24

25.47 Fall 6 lks. N. of the ¼ sec cor. bet. secs. 13 and 24 which is a sandstone 8 x 10 x 8 ins above ground marked and witnessed as described by the surveyor general
Thence I run
West on a true resurvey line bet secs 13 and 24
Ascend thro shadscale and greasewood

24.50 Top of ridge bears N. E and S. W. 30 ft. above ¼ cor. descend

25.47 I intersect the E. bdy. of the Fort Duchesne Military Reservation at a point from which the N. E. Cor. bears N. 0°18' E. 92.06 chs. dist.
Set a sandstone 24 x 16 x 6 ins 18 ins in the ground for. closing cor of frac'l. secs. 13 and 24 marked C. C with 1 groove on E. F. D. C. M. R on W and 3 grooves on S. faces and raised a mound of stone 2 ft base 1½ ft

Resurvey & Retracement of T. 2 S. R. 1 E.

Chains	
	high E of cor. Pits impracticable hand mountainous Soil Rocky and sandy 4th rate Timber, scattering shadscale and greasewood on 25.47 ch. Mountainous land on 25.47 chs Sept 12-1903 At this cor. I set off 4°26' N on the decl. arc; and at 11h 57m a.m. l. m. t. observe the sun on the meridian, the resulting lat is 40°19' N. or within 1' of the proper lat.
	Sept 12, At 2h 00m p. m. l. m. t I set off 40°20' N on the lat. arc; 4°24' N. on the decl. arc; and determine a meridian with the solar at a point 12.06 chs. S. 0°18' W. of the N E Cor. of the Fort Duchesne Military Reservation at which point the line running West bet. secs. 12 and 13 should intersect the E. bdy. of the Reservation thence I run East on a random resurvey line bet. secs. 12 and 13.
24.80	Fall 18 lks. N. of the 1/4 sec cor. bet. secs. 12 and 13 which is a sandstone 8 x 10 x 8 ins above ground marked and witnessed as directed by the surveyor general Thence I run West on a true resurvey line bet secs. 12 and 13. Over level ground through scattering greasewood and shadscale
24.80	Intersect the E. bdy. of the Fort Duchesne Military Reservation at a point from which the N E Cor. of the Reservation bears N. 0°18' E. 12.24 chs. dist.

Resurvey and Retracement of T. 2 S. R. 16 E.

Chains	
	Set a sandstone 16 x 12 x 4 ins 11 ins in the ground for closing cor. of fract secs. 12 and 13 marked C. C. with 1 groove on E. F. D. C. M. R on W. and 4 grooves on S. face; dig pits crosswise on each line 30 x 24 x 12 ins. N. and S. 3 ft dist. and East of stone 7 ft. dist. and raised a mound of earth 4 ft base 2 ft. high E of cor.
	Land level
	Soil, sandy and clay 4th rate
	No Timber; Scattering greasewood and shadscale on 24.80 chs.
	Sept. 12. At 4h 00m p. m. l. m. t I set off 40°20' N. on the lat. arc; 4°23' N. on the decl. arc. and determine a meridian with the solar at a point N. 89°52' W. 15.20 chs from the N. E. Cor. of the Fort Du Chesne Military Reservation at which point the line running S. bet secs. 11 and 12 should intersect the N. bdy of the reservation I run North on a random resurvey line bet. secs. 11 and 12.
27.70	Fall 22 lks E of the 1/4 sec. cor bet. secs. 11 and 12 which is a sandstone 9 x 10 x 8 ins above ground marked and witnessed as described by the surveyor general
	Thence I run
	South on a true resurvey line bet secs. 11 and 12
	Ascend over stony country through shadscale and greasewood undergrowth
9.50	Top of ridge bears E. and W. descend
27.70	Intersect the N. bdy of the Fort Du Chesne Military Reservation at a point from which

Resurvey and Retracement of T. 25 S. R. 16 E.

Chains.

the N. E. Cor. bears S. 89°52' E. 15.42 chs. dist.
Set a sandstone 24x16x6 ins. 18 ins. in the ground for closing Cor. for frac. secs. 11 and 12 marked C.C. with 2 grooves on N. T. D. C. M. R. on S. and 1 groove on E. faces; and raised a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
Land, mountainous
Soil, rocky and stony 4th rate
No Timber; Greasewood and shadscale undergrowth on 27.70 chs.
Mountainous land on 27.70 chs.
Sept. 12, 1903

Sept 13, 1903 At 8h 00m a. m. l. m. t I set off 40°30' N. on the lat. arc; 4°07' N. on the decl. arc; and determine a meridian with the solar at a point S. 89°52' E 64.95 chs. dist. from the N. W. Cor. of the Fort Duchesne Military Reservation at which point the line running S. bet. secs. 10 and 11 should intersect the N. Bdy. of the reservation I run North on a random resurvey line bet secs. 10 and 11

27.68 Fail 8 lks. E. of a sandstone 10x6x6 ins above ground, firmly set but no marks visible therefore I continue North

67.68 Fail 8 lks East of the cor of secs. 2, 3 10 and 11 which is a cobble-rock 6x6x6 ins. above ground marked and witnessed as described by the surveyor general
Thence I run
S. on true resurvey line bet. secs. 10 and 11. through cottonwood timber and dense willow undergrowth

40.00 Intersect the sandstone heretofore

Resurvey and Retracement of T. 2. S. R. 1 E.

Chains	
	described which I remark 1/4 on W. face for reestablished 1/4 sec. cor. from which A cottonwood 4 ins diam bears N. 50° E. 14 lks dist., marked 1/4 S. 11. B. T. A cottonwood 5 ins diam. bears West 75 lks. dist. marked 1/4 S. 10 B. T.
67.68	Intersect the N. bdy of the Fort Duchesne Military Reservation at a point from which the N. W. cor. of the Reservation bears. N. 89°52' W. 64.87 Chs. dist Set a cobble-rock 16 x 8 x 8 ins 11 ins in the ground for closing cor. of frac. secs. 10 and 11 marked C. C. with 2 grooves on N. F. D. C. M. R on S. and 2 grooves on E. faces; and raised a mound of stone 2 ft base 1½ ft. high N. of cor. Pits impracticable Land level Soil, sandy loam 1st rate Timber, cottonwood timber and dense undergrowth on 67.68 Chs. at this cor. I set off 40°03' N. on the det arc and at 11h 56m a.m. l. m. t. observe the sun on the meridian the resulting lat is 40°20' N or within 1' of the proper lat.
	Sept. 13, 1903 at 2h 00m p. m. l. m. t. I set off 40°19' N on the lat. arc. 40°02' N, on the det. arc. and determine a meridian with the solar at a point S. 0°13' W. 12.47 chs. from the N. W. of the Fort Duchesne Military Reservation at which point the line running E. bet. secs. 10 and 15 should intersect the W. bdy of the Reservation I run. West on a random resurvey line bet secs.

Resurvey and Retracement of T. 2 S. R. 1 E.

Chains	
	10 and 15
14.80	Fall 24 lks N. of the cor. of secs. 9, 10, 15 and 16 which is a sandstone 8x8x6 ins above ground marked and witnessed as described by the surveyor general.
	Thence I run
	East on a true resurvey line bet secs. 10 and 15
	Descend over rocky bench through scattering shadscale and greasewood
12.00	Begin more abrupt descent N. W. and S. E.
14.25	Bottom of gulch drains S. E. 75 ft below top of bench. stream of drainage water 5 lks wide 6 ins deep drains S. E. ascend
14.80	Intersect the West bdy of the Fort DuChesne Military Reservation at a point from which the N. W. Cor. bears N. 0° 13' E. 12.71 chs. dist.
	Set a cobble rock 20x14x10 ins 15 ins in the ground for closing cor. of fract. secs. 10 and 15 marked C. C. with 3 grooves on W. T. D. C. M. R. on E and 4 grooves on S. faces; and raised a mound of stone 2 ft base 1½ ft. high W. of cor.
	Pits impracticable
	Land mountainous
	Soil rocky and stony 4th rate
	No Timber, Scattering Shadscale and greasewood undergrowth on 14.80 chs.
	Mountainous land on 14.80 chs.

Sept 13 at 4h 00m p. m. l. m. t I set off 40° 18' N. on the lat. arc; 40° 1' N. on the decl arc and determine a meridian with the solar at a point S. 0° 13' W. 92.71 chs. from the N. W. cor. of

Resurvey and Retracement of T. 25 S. R. 16 E.

Chains	
	the Fort Duchesne Military Reservation at which point the line running E. bet. secs. 15 and 22 should intersect the W. bdy of the reservation I run.
	West on a random resurvey line bet. secs. 15 & 22
14.06	Fall 42 lks. S. of the cor. of secs. 15, 16, 21 and 22 which is a sandstone 12 x 8 x 6 ins above ground marked and witnessed as described by the surveyor general thence I run
	East on a true resurvey line bet secs. 15 and 22
	Descend through shadscale and greasewood undergrowth.
10.00	Bottom of gulch 30 ft below cor. drains S. E. ascend
14.06	Intersect the W. bdy. of the Fort Duchesne Military Reservation at a point from which the N. E. cor. bears. N. 0°13' E. 92.29 chs. dist.
	Set a cobble-rock 18 x 10 x 8 ins 12 ins. in the ground for closing cor. of fract. secs. 15 and 22 marked C. C. with 3 grooves on W. F. D. C. M. R on E and 3 grooves on S. faces; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber; Scattering shadscale and greasewood undergrowth on 14.06 ch.
	Mountainous land on 14.06 chs.

For General Description see Notes of Subdivisions T. 25 S. R. 16.

Harry Rager
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 Harry Rogers, 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~~ Resurvey and Retracement of Subdivisional lines of T. 2 S. R. 16. of the Uintah Special Base and Meridian, and Recovery of the Boundaries of the Fort DuChesne Military Reservation showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*

Edward McGee, *Chainman.*

Robt. Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in ~~surveying~~ Resurveying & Retracing all those parts or portions of the Resurvey and Retracement of Subdivisional lines of T. 2 S. R. 1 E. & recovery of the Boundaries of the Fort DuChesne Military Reservation of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced & resurveyed 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.

A. B. Larson, *Chainman.*

Edward McGee, *Chainman.*

Robt Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, ~~189~~ 1903

Harry Rogers
U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Roger, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July 1903, 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, resurveyed & retraced all those parts or portions of Subdivisional Lines of T. 2 S. R. 1 E. and the Boundaries of the Fort Duchesne Military Reservation [illegible] of the Uintah Special Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been resurveyed & 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 resurveyed & retraced; 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.

Harry Roger
United States Deputy Surveyor.

Subscribed by said Harry Roger, and sworn to before me this 11th day of January 1904

Edward H. Anderson
U.S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1904, 189

The foregoing field notes of the ~~survey~~ retraced & resurveyed of the Subdivisional Lines of Township 2 South Range 1 East of the Uintah Special Base & Meridian, Utah, and of the Boundaries of the Fort Duchesne Military Reservation

executed by Robert E. Kedlin & Harry Roger under the contract No. 269, dated July 22 1903, 189 , 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-306

FILED

JAN 4 1904

L.H.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 2 South, Range No 1 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 1903

Survey commenced Sept. 14th, ~~189~~ 1903

Survey completed Sept. 20th, ~~189~~ 1903

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Sept 17 36 10

Clos

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BOOK A-306

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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#
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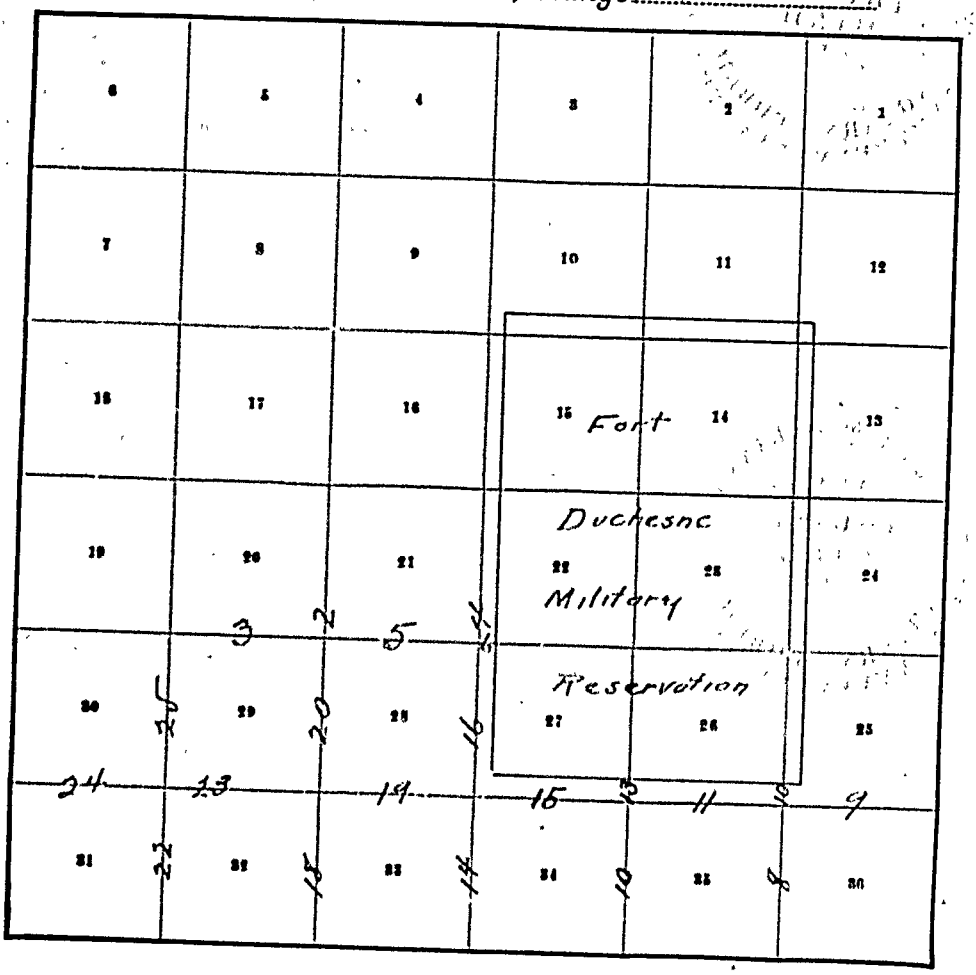
BOOK A-306

INDEX DIAGRAM.

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



Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee 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 Subdivision lines of T. 2 S. R. 1 E. Uintah Special Base and Meridian, Utah.

A B Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September, 1893.

Henry R. Atkinson
Notary Public

SEAL

~~WE,~~ I Robert Douglas ~~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 Subdivision lines of T. 2 S. R. 1 E. Uintah Special Base and Meridian Utah

Robt Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September, 1893.

Henry R. Atkinson
Notary Public

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, C. E. Whiteman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision lines of T. 2 S. R. 1 E. Uintah Special Base and Meridian, Utah.

C E Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1893.

Henry R. Atkinson
Notary Public

SEAL

6—151

Subdivisions of T. 23 S. R. 1 E.

Chains

Survey commenced Sept. 14 1903 and executed with a W. & L. E. Gurley light mountain transit (not numbered) with solar attachment. The horizontal limb is provided with double verniers placed opposite to each other reading to single minutes of arc which is also the least count of the verniers of the latitude and declination arcs.
The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah Sept. 5 1903.
I examine the adjustments of the transit and find the level and collimation correct, then to test the solar apparatus by comparing its indications resulting from solar observations made during a. m. and p. m. hours with a meridian determined by observations on Polaris I proceed as follows;
at the re-established 1/4 sec. cor. bet. secs. 20 and 21 latitude 40°18'N. longitude 109°56'W. I set off 40°18'N. on the lat. arc, 3°38' N. on the decl. arc; and at 3h 00m p. m. l. m. t. determine with a solar a meridian and mark a point thereon on the stone firmly set by me Sept. 9 5 chs. N. of my station on which the meridian established by Polaris observation taken Sept. 9 1903 falls 0.3 ins. East.
Sept. 15 1903 at 9h 00m a. m. l. m. t. I set off 40°18'N. on the lat. arc; 3°20' N. on the decl. arc; and mark a point in the meridian determined

Chains

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 position for meridian respectively about 0'16" west, and 0'21" east of the meridian established by the Polaris observations therefore I conclude that the adjustments of the instrument are satisfactory
The magnetic bearings of the true meridian at 9h 30m a. m. is N. 16°12' W, the angle thus determined gives the magnetic decl. 16°12' E.

From the re established 1/4 sec. cor. between secs. 20 and 21 I run South on a true line bet. secs. 20 and 21
Descend through dense willow undergrowth along W. bank of canal
20.00 Irrigation ditch 1 ft. wide, 6 ins deep drs. S. W.
40.00 Set temp cor. of secs. 20, 21, 28 and 29
Permanent cor. afterwards set at 39.40 Chs.
Land mountainous
Soil, sandy loam 1st rate
Dense willow undergrowth on 39.40 Chs
Mountainous land on 39.40 Chs.

From the temp. cor. to secs. 20, 21, 28 and 29 I run West on a random line bet. secs. 20 and 29.
40.00 Set temp. 1/4 sec. cor.
79.42 Fall 60 lks. S. of the old cor. of secs.

Subdivisions of T. 2 S. R. 1 E.

Chains	
	19, 20, 29 and 30 which is a sandstone 12 X 12 X 7 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general as this falling exceeds the limits prescribed by the manual, I abandon random line and begin at the old cor. of secs. 19, 20, 29 and 30 and run East on a true line bet. secs. 20 and 29
	over descending rolling country
25.50	Bottom of gulch drains S. 200 ft below sec. cor. Drainage stream from bench canal 6 lks wide 10 ins. deep drains S. ascend gradually
31.90	Foot of knoll, begin abrupt ascent over same.
34.15	Top of knoll 20 ft. high, descend
35.50	Bottom of descent 20 ft. below top of knoll thence gradual ascent
36.40	Begin abrupt ascent bears N. E. and S. W, over loose cobble-rock and sandstone ledges
39.42	Set a sandstone 18 X 10 X 6 ins. 12 ins. in the ground for 1/4 sec. cor, marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high. N. of cor. Pits impracticable
41.55	Cliff 30 ft high bears N. E. and S. W,
42.90	Top of abrupt ascent bears N. E. and S. W, 150 ft. above beginning of abrupt ascent. Thence along top of bench
59.50	Wire fence bears N. and S. enter field
65.40	Irrigation ditch 1 ft. wide 6 ins. deep drains S. W.
78.10	Irrigation ditch 1 ft. wide 6 in deep drains S.
79.42	Intersect N. and S. line bet secs. 20 and 21, 39.40 chs. S. of the 1/4 sec cor. at my point of intersection

Subdivisions of T. 25 S. R. 16 E.

Chains	
	I set a sandstone 12×12×8 ins. 8 ins in the ground for cor. of secs. 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E. edge; dig pits 18×18×12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, mountainous
	Soil, sandy loam and rocky 1st and 4th rate
	No timber
	Mountainous land on 79.42 chs.
	Sept 15 at this cor. I set off 3° 17' N. on the decl arc; and at 11h 56m a. m. t. observe the sun on the meridian; the resulting lat. is 40° 18' N. or within 1' of the proper lat.
	Sept 15 at 2h 00m p. m. a. m. t. I set off 40° 18' N. on the lat. arc; 3° 15' N on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor. between secs. 21 and 22 which is a sandstone 12×10×5 ins above ground, firmly set and marked and witnessed as discribed by the surveyor general
	Thence I run
	South on a true line bet. secs. 21 and 22 along rolling bench through scattering shadscale and greasewood,
15,20	Begin steep descent bears. N. W. and E.
18,40	Bottom of steep descent 100 ft below beginning
	Descend gradually
	Bottom of gulch drains East
	spring branch 1 ft wide 1 in deep drains E.

Subdivisions of T. 25 S. R. 16 E.

Chains	
	Begin steep asc. brs. S. W and E.
23.40	Top of steep ascent 100 ft. above beginning.
40.00	Set temp. cor. of secs. 21, 22, 27 and 28
...	Permanent cor. afterwards set at 39.47 ch.
	Land mountainous
	Soil, rocky and stony 4th rate
	Scattering shadscale and greasewood on 39.47 chs.
	Mountainous land on 39.47 chs.

	From the temp. cor of secs. 21, 22, 27 and 28. I run West on random line bet secs. 21 and 28
40.00	Set temp. cor 1/4 sec. cor
80.40	Fall 53 lks S. of the cor of secs. 20, 21, 28 and 29 heretofore described As this falling exceeds the limits prescribed by the manual I abandon random line and begin at the cor. of secs. 20, 21, 28 and 29 and run East on true line bet secs. 21 and 28
	Over slightly descending land
0.20	Canal 15 lks wide 6 ins. deep drains S.
11.75	Wire fence brs. N and S. leave cultivated land enter shadscale
19.30	Begin steep descent N and S.
32.50	Foot of steep descent 75 ft below beginning
	Thence gradual descent
40.20	Set a sandstone 16 x 12 x 6 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E and W. of stone 3 ft dist and raised a mound of earth 3 1/2 ft base 1 1/2 ft high N. of cor.
55.00	Bottom of descent begin gradual

Subdivisions of T 25 S. R. 16 E.

Chains	
	ascent.
64.00	Begin abrupt ascent N. W and S. E.
72.00	Top of abrupt ascent 100 ft. above beginning.
	Thence gradual ascent
80.40	Intersect N. and S. line bet secs. 21 and 22 39.47 chs S. of the 1/4 sec. cor. At my point of intersection I set a sandstone 14 x 12 x 8 ins; 10 ins in the ground for cor of secs. 21, 22, 27 and 28 marked with 2 notches on S. and 3 notches on E. edges; dig pits 18 x 18 x 12 ins., in each sec. 5 1/2 ft dist.; and raised a mound of earth, 4 ft base 2 ft. high W. of cor.
	Land. mountainous
	Soil. sandy loam and rocky 1st and 4th rates.
	Scattering shadscale on 68.65 chs.
	Mountainous land on 80.40 chs.
	Knowing that the line running East bet secs. 22 and 27 would intersect the West Boundry of the Fort Duchesne Military Reservation, from the Cor. of secs. 21, 22, 27 and 28 I run East on true line bet secs. 22 and 27.
	Over ascending bench through scattering shadscale
14.08	Intersect the West bdy of the Fort Duchesne Military Reservation N. 0° 13' E. 68.29 chs. from the S. W. Cor. which is an iron post 6 x 6 x 30 ins. above ground firmly set, marked U. S. M. R. S. W. Cor. on the N. W. faces. At my

Subdivisions of T. 2 S. R. 1 E.

Chains

point of intersection I set a cobble rock 14 x 10 x 8 ins. 9 ins in the ground for closing cor. of fracl. secs. 22 and 27, marked C. C. and 4 grooves on West. F. O. C. M. R. on East and 2 grooves on South, faces; dig pits crosswise on each line 24 x 18 x 12 ins. N. and S. 3 ft dist. and 24 x 18 x 12 ins.; W. of stone, 7 ft dist and raised a mound of earth 4 ft. base 2 ft high E. of cor.
Land, mountainous
Soil, rocky and stony 4th rate
No Timber, Scattering shadscale on 14.08 chs
Mountainous land on 14.08 chs.
Sept 15 1903

Sept 16 at 8h 00m a. m. l. m. t., I set off 40°16'N on the lat. arc; 2°58'N on the decl. arc, and determine a meridian with the solar at the cor of Tps. 2 and 3 S Rs. 1 and 2 E.; thence I run
N. 0° 09' W on E. bdy. T. 2 S. R. 1 E. and E. bdy. sec. 36 and at 39.97 chs. fall 7 lks. W. of the 1/4 sec. cor.; and at 80.00 chs fall 14 lks. W. of the cor. of secs. 25, 30, 31 and 36; therefore the line bears N. 0° 03' W.
From the Tp. cor I run west on the S. bdy of sec 36 at 40.00 chs. fall 1/2 lk S. of the 1/4 sec. cor.; and at 80.00 chs fall 1 lk S. of the cor. of secs. 1, 2, 35 and 36 on S. bdy. of the Tp. consequently the S. bdy of sec. 36 bears West.
Therefore the bearings and chaining practically agree with the field notes of the original survey.

Subdivisions of T. 25 S. R. 16 E.

Chains	
	I commence at the cor. of secs. 1, 2, 35 and 36 on the S. bdy of the Tp. which is a sandstone 8 x 6 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general
	Thence I run
	N. 0°04' W bet secs. 35 and 36
	Descend over sandstone ledges through scattering greasewood and shadscale
21.50	Dry Wash dra. W. ascend
22.50	Foot of rocky ledge brs. E and W.
23.35	Top of same 20 ft above foot thence gradual ascent
30.25	Foot of ledge brs. E and W. begin steep ascent over same
31.25	Top of ledge 50 ft high
40.00	Set a sandstone 14 x 10 x 8 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raised a mound of stone 2 ft base 1½ ft high W. of Cor. Pits impracticable
42.20	Top of ridge bears E and W. 15 ft above 1/4 sec. cor.
	Descend
75.75	Dry Creek - drains S. 75° W. Begin gradual ascent.
78.75	Foot of rocky bluff bears N. E. and S. W. Begin steep ascent
80.00	Set a sandstone 20 x 8 x 8 ins. 15 ins in the ground for cor. of secs. 25 26, 35 and 36 marked with 1 notch on S and 1 notch on E. edges; and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land Mountainous
	Soil Rocky and Stony 4th rate
	No Timber, Scattering shadscale and greasewood on 80.00 chs.
	Mountainous land on 80.00 chs.
	Sept 16 at this cor. I set off 2°54' N

Subdivisions of T. 25 S. R. 1 E.

Chains

on the decl. arc; and at 11.h 55 m l. m. t. observe the sun on the meridian; the resulting lat is 40°17'N or within 1' of the proper lat.

East on a random line bet. secs. 25 and 36

40.00 Set temp. 1/4 sec. cor.

79.96 I intersect E. bdy of Tp. 14 lks N. of the cor. of secs. 25, 30, 31 and 36 which is a sandstone 8x8x6 above ground marked and witnessed as described by the surveyor general.

Thence I run

N. 89°54' W. on true line bet secs 25 and 36

Descend gently

30.06 Horse Trail bears N. E and S. W.

33.35 Horse Trail bears N. E and S. W.

39.98 Set a sandstone 14x12x5 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins E and W. of stone 3 ft. dist; and raised a mound of earth 3½ ft base 1½ ft high N. of cor.

50.85 Dry wash 5 ft deep 8 ft wide drs. S. 60° W.

71.36 Dry wash drs S. W.

Ascend gradually

78.60 Begin steep ascent along E. slope of rocky and clifty ridge

79.96 The cor. of secs. 25, 26, 35 and 36

Land mountainous

Soil Rocky 4th rate

No Timber

Mountainous land on 79.96 chs.

10 50

Subdivisions of T. 25 S. R. 16 E.

Chains	
	N. 0° 4' W. bet. secs. 25 and 26
	Over ascending rocky bluff
1.80	Top of rocky ridge bears N. E and S. W.
	30 ft above sec. cor.
	Begin descent
11.60	Intersect S. bdy. of Fort Duchesne
	Military Reservation at a point
	from which the S. E. Cor. Post
	which is an iron post 30"x6"x6"
	above ground marked U. S. M. R.
	S. E Cor. on N. and W. faces
	bears S. 89° 47' E. 12.95 chs. dist.
	Set a sandstone 16 x 8 x 6 ins 11 ins
	in the ground for closing cor. of
	fract. secs. 25 and 26 Marked C.C.
	with 2 grooves on S. F. D. C. M. R
	on N. and one groove on E faces;
	dig pits crosswise on each line
	24 x 18 x 12 ins E and W. 3 ft., and
	24 x 18 x 12 ins., S of stone; 7 ft. dist
	and raised a mound of earth 4 ft.
	base 2 ft high S of cor.
	Land mountainous
	Soil rocky 4th rate
	No timber
	Mountainous land on 11.60 chs.

Sept. 16 At 3h 00m p. m. l. m. t I set off 40° 16' N. on the lat. arc, 2° 51' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on S. bdy of Tp. which is a sandstone 8 x 12 x 10 ins above ground marked and witnessed as described by the surveyor general

I run

N. 0° 5' W bet secs 34 and 35

Ascend gradually through shadscale

Subdivisions of T. 2 S. R. 1 E.

Chains	
23.00	Bottom of gulch 60 ft wide 15 ft deep drains S. E.
	Thence along E. slope of rocky and precipitous ridge
37.50	Top of stony and precipitous ridge bears N. 75° E and S. 75° W. 200 ft. above gulch.
	Begin gradual descent
39.50	Begin abrupt descent N. E and S. W.
40.00	Set a sandstone 20 x 16 x 6 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 1 1/2 ft high, W. of cor. Pits impracticable
49.50	Begin gradual descent N. E and S. W.
60.00	Wagon Road Price to Vernal N. 70° E and S. 70° W.
75.00	Small wash drs S. W.
	Ascend gently
80.00	Set a sandstone 20 x 8 x 6 ins 15 ins. in the ground for cor. of secs. 26, 27, 34 and 35. marked with 1 notch on S. and 2 notches on E. edges; dig pits, 18 x 18 x 12 ins. in each sec. 5 1/2 ft. dist.; and raised a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber; Shadscale on 80.00 chs.
	Mountainous land on 80.00 chs.
	Sept. 16, 1903

	Sept 17 at 9h 00m a.m. sky overcast obsn. impossible
	East on a random line bet secs. 26 and 35
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect N. and S. line 10 lks. N. of the cor of secs. 25, 26, 35 and 36
	Thence I run
	N. 89° 56' W. on a true line bet. secs. 26 and 35

Subdivisions of T. 2 S. R. 1 E.

Chains	
	Over steep ascending ledges through shadscale
0.55	Top of rocky ridge 20 ft above cor. bears N. and S. Descend abruptly
2.00	Begin gradual descent
10.00	Dry wash drains N.
	Thence gradual ascent.
19.80	Fort Duchesne and Ouray road bears N. E and S. W.
23.80	Road bears N. and S. W.
31.20	Foot of rocky bluff bears N and S. begin steep ascent
37.50	Top of bluff 170 ft high bears N. and S.
	Thence along top of bench
38.80	Begin steep descent over rocky bluff bears. N and S.
40.04	Set a sandstone 20×12×4 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
44.25	Bottom of steep descent 200 ft below beginning.
	Thence gentle descent.
44.50	Left Bank of Uintah River 60 lks wide 12 ins deep course S.
45.10	Right Bank of Uintah River Enter dense undergrowth and scattering timber bears N and S.
	Thence gradual ascent over old river bed.
63.00	Leave dense undergrowth and scattering cottonwood timber enter shadscale. Leave river bed.
64.50	Road from Fort Duchesne to Ouray bears. N and S.
64.90	Telephone line Fort Duchesne to Ouray bears. N and S.
72.10	Road from Price to Vernal bears N. and S.

Chains	
77.95	Wash 10 ft. wide 4 ft. deep drains S. E.
80.08	The cor. of secs. 26, 27, 34 and 35 Land mountainous Soil rocky and stony 4th rate No Timber; Dense undergrowth and scattering cottonwoods on 17.90 chs. shadscale on 62.18 chs. Mountainous land on 80.08 chs. Sept 17 At this cor I set off 2°31' N. on the decl. arc; and at 11h 55m l. m. t. observe the sun on the meridian the resulting lat is 40°17' N. or within 1' of the proper lat.
	N. 0°5' W. bet. secs. 26 and 27 Ascend gradually
1.06	Telephone line Fort Duchesne to Price bears. N. 35° E and S. 35° W.
5.80	Dry wash 4 ft wide 3 ft deep drains S. E.
10.80	Begin steep, rocky ascent over sandstone boulders
11.81	I intersect S. bdy Fort Duchesne Military Reservation at a point from which the S. W. Cor. Post which is an iron post 36"x6"x6" above ground marked U. S. M. R. S. W. Cor. on N and E faces. bears. N. 89°47' W 67.38 chs. dist. Set a sandstone 36x16x6 ins 27 ins in the ground in a mound of rock for closing cor. of fracl secs. 26 and 27 marked C. C with 3 grooves on S. F. D. C. M. R. and 2 grooves on E. faces and raised a mound of stone 2 ft. base 1½ ft. high

Subdivisions of T. 25 R 16 E.

Claims	
	S. of cor. Pits impracticable Land mountainous Soil rocky and sandy 4th rate No Timber Mountainous land on 11.81 chs.
	Sept 17, at 3h 00m p.m. l.m.t. I set off 40° 16' N. on the lat. arc; 2° 28' N. on the decl arc; and determine a meridian with the solar at the cor. of sec. 3, 4, 33 & 34 on S. bdy of Tp., which is a sandstone 8 x 7 x 4 ins above ground marked and witnessed as described by the surveyor general. Thence I run N. 0° 5' W. bet secs. 33 and 34 Ascend gradually through greasewood and shadscale
9.00	Foot of bluff brs. E and W ascend abruptly
10.50	Top of ascent bears E. and W. descend gently.
14.50	Top of sandstone ledge 15 ft high brs E and W. Thence descend abruptly over loose sandstone boulders.
20.00	Bottom of gulch brs. W. Begin precipitous asc. over sandstone ledges
25.70	Top of steep asc. 150 ft above beginning Thence gradual asc.
37.00	Top of ridge bears N. E and S. W. Descend
39.00	Small gulch brs. W. 25 ft. below top of ridge ascend
40.00	Set a sandstone 24 x 12 x 6 ins. 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 3 ft. base 1½ ft. high W. of cor. Pits impracticable

Subdivisions of T. 2 S. R. 1 E.

Chains	
49.10	Top of stony ridge brs. N. E and S. W. Descend gradually.
62.00	Bottom of descent ascend
67.00	Top of ridge bears. E and W. 50 ft above bottom of descent, descend gradually
71.00	Begin abrupt descent E and W.
75.00	Bottom of step descent. Descend gradually
80.00	Set a sandstone 15 x 10 x 8 ins 10 ins in the ground for cor. of secs. 27, 28, 33 and 34 marked with 1 notch on S and 3 notches on E edges; dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist., and raised a mound of Earth, 4 ft. base 2 ft. high W. of cor. Land mountainous Soil rocky and stony 4th rate No Timber; Greasewood and shadscale on 80.00 chs. Mountainous land on 80.00 chs. Sept 17, 1903 -
	Sept. 18 Sky was overcast and obsn. impossible East on a random line bet secs. 27 and 34
40.00	Set temp 1/4 sec. cor.
79.96	Intersect N and S. line, 23.48 chs N. of th cor. of secs. 26, 27, 34 and 35 Thence I run. N. 89°50' W. on true line bet secs. 27 and 34. Ascend over sandy land through shadscale and greasewood
0.50	Telephone line Fort Duchesne to Price bears N. 35° E and S. 35° W.
10.00	Dry wash drains S. E.
27.00	Foot of rocky bluff bears N and S. Begin steep ascent
32.00	Top of steep ascent 60 ft above beginning Thence gradual ascent
39.98	Set a sandstone 16 x 8 x 6 ins 11 ins in

Chains

the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E and N. of stone 3 ft dist.; and raised a mound of earth 3½ ft base 1½ ft. high. N. of cor.

47.50 Begin precipitous descent N.E and S.W.

50.00 Bottom of gulch drains N.E. 40 ft below beginning of precipitous descent

51.00 Begin steep ascent along N. side of gulch.

56.50 Leave gulch, continue steep and rocky ascent

60.10 Top of rocky ridge bears N and S. 100 ft above gulch
Thence steep descent

61.00 Bottom of steep descent 20 ft below top of ridge thence gradual asc.

68.00 Begin steep ascent N and S.

74.00 Top of ridge brs. N. and S. descend

79.96 The cor of secs. 27, 28, 33 and 34
Land mountainous
Soil, sandy and rocky 4th rate
No Timber; shadscale and greasewood on 79.96 chs.
Mountainous land on 79.96 chs.
Sept 15 1903 At this cor I set off 2° 07' N on the decl. arc; and at 11 h 55 m. h. m. t. observe the sun on the meridian; the resulting lat is 40° 17' N or within 1' of the proper lat.

Being able to see the cor of secs 21, 22, 27 and 28 the angle exceeding 21' of arc I run N. 0° 5' W. bet secs. 27 and 28 On true line Descend through shadscale and rabbit brush.

18.50 Foot of sandstone ledge bears N.E. 4 chs. and S.W. 2 chs. ascend abruptly over same

19.10 Top of ledge 25 ft high descend

Subdivisions of T. 25. R. 16 E.

Chains	
25.50	Foot of ledge bears E and W. 30 ft. below top thence steep ascent over loose rocks and boulders
26.60	Ledge 50 ft high bears. E and W. continue rocky ascent
33.00	Top of ridge bears E and W. 100 ft above beginning of steep ascent.
39.60	Bottom of gulch, 40 ft. below top of ridge, drains W. Begin steep ascent.
40.00	Set a sandstone 16 x 12 x 6 ins. 11 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
42.50	Top of ascent, 80 ft. above 1/4 cor., bears N. W and E. thence over rolling bench.
52.50	Begin steep descent bears E and W.
55.00	Begin more gradual descent
59.10	Stage road Price to Vernal bears E. and W.
61.75	Bottom of Bottle Canon 175 ft below beginning of steep descent; Dry wash 8 ft wide 4 ft. deep drains E. ascend
63.00	Begin steep ascent E. and W.
66.40	Top of steep ascent bears East and West 2 chs thence North Thence over rolling bench.
80.00	Fall 107 lks. E of the cor of secs. 21, 22, 27 and 28 as this falling exceeds the limits prescribed in the manual at my point of intersection set a cobble-rock 14 x 8 x 6 ins 10 ins in the ground for closing cor. of secs. 27 and 28 marked C. C. with 2 grooves on S. and 3 grooves on E faces; dig pits 24 x 18 x 12 ins. crosswise on each line, E. & W. 3 ft.; and S. of stone 7 ft dist. and raise a mound of earth 4 ft. base 2 ft. high S. of cor. and destroyed

15

Subdivisions of T. 25 R. 16.

Chains

all marks pertaining to secs. 27 and 28 on the old cor. of secs. 21, 22, 27 and 28
Land mountainous
Soil, rocky and stone 4th rate
Non Timber; shadscale and rabbit brush on 80.00 chs.
Mountainous land on 80.00 chs.

Sept 18 at 3h 00m p.m. l.m.t. I set off 40°16'N on the lat. arc; 2°04'N on the decl. arc; and determine a meridian with the solar at the cor of secs. 4, 5, 32 and 33, on the South bdy. of the Tp. which is a sandstone 12×8×6 ins above ground marked and witnessed as described by the surveyor general
N. 0°6'W. bet secs. 32 and 33
Ascend over rough and broken country
23.70 Top of stony ridge bears E and W. 200 ft above cor. begin abrupt descent
27.70 Top of ledge brs. E and W. 20 ft high
28.30 Foot of same.
38.70 Begin gradual descent.
40.00 Set a sandstone 14×12×5 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
64.70 Dry Wash 25 ft wide 8 ft deep drains W. 150 ft below top of ridge. ascend gradually over broken country.
78.60 New Stage road Price to Vernal bears N. E and S. 75° W.
78.80 Begin abrupt ascent
80.00 Set a sandstone 22×12×5 ins 16 ins in the ground for cor of secs. 28, 29, 32 and 33 marked with 1 notch on S.

Chains	
	and 4 notches on E. edges; and raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable Land mountainous Soil sandy and rocky 4th rate No timber Mountainous land on 80.00 chs Sept. 18 1903
	Sept. 19: At 8h 00m a. m. L. m. t. I set off 40°17' N. on the lat. arc; 1°49' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33 thence I run East on a random line bet secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
79.81	I intersect N and S. line 25 lks N of the cor of secs. 27, 28, 33 and 34 Thence I run N. 89°49' W on a true line bet secs. 28 and 33 Descend thro greasewood and rabbit brush
19.50	Begin more abrupt descent N.E and S.W.
29.00	Bottom of gulch drs. S.W. 75 ft below beginning an abrupt descent thence gradual ascent
39.00	Top of small ridge bears N and S. descend
39.90	Set a sandstone 14 x 8 x 6 ins 10 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 W. of cor. Pits impracticable
44.50	Foot of bluff. bears N. 75° E and S. W. begin steep ascent over loose rock, sandstone boulders and ledges
47.75	Top of rocky ridge bears N and S. 75 ft above foot. descend over sandstone cliffs and boulders

Subdivisions of T. 2 S. R. 16.

Chains	
51.70	Foot of ridge bears N and S. 50 ft below top thence ascent over cliffs
52.50	Cliff 35 ft high bears N. and S. thence abrupt ascent.
53.50	Begin gradual ascent N.E and S.W.
63.00	Top of bluff bears N. and S.E.
64.50	Foot of bluff 35 ft below top thence more gentle descent
67.40	Dry wash 25 ft wide 8 ft deep drs. S. ascend
73.25	New Stage road Price to Vernal bears N.E and S.W.
76.00	Top of rocky ledge descend
76.70	Bottom of descent, begin steep ascent.
78.00	Top of ledge thence along S. slope of same
79.00	Begin steep descent from ledge
79.81	The cor. of secs. 28, 29, 32 and 33.
	Land mountainous
	Soil, rocky and stony 4th rate
	No Timber; Greasewood and rabbit brush on 79.81 chs.
	Mountainous land on 79.81 chs.

Knowing from previous survey that a closing cor. would be necessary on S. bdy sec 21 I run N. 0° 6' W on true line bet secs. 28 and 29 ascend abruptly over loose sandstone boulders and ledges

1.70	Top of rocky point bears E and W. 75 ft above cor. thence gradual ascent over boulders and ledges
6.80	Stream of waste water from canal on bench 10 lks wide 8 ins deep course S. W. for 4 chs thence S. 30° E.
8.50	Same stream course S. 5° E.
13.70	Same stream course S. 5° W.

Subdivisions of T. 2. S. R. 16.

Chains	
15.60	Foot of ledge brs. E and W. begin precipitous ascent
16.95	Top of ledge 100 ft high thence gradual ascent.
18.70	Foot of ledge brs. E + W.
18.85	Top of ledge 15 ft high
25.50	Stream of waste water from canal on bench 10 lks wide 10 ins deep course S. 30° E. thence steep ascent.
27.30	Top of ascent 250 ft above sec. cor. thence over rolling bench through shadscale
40.00	set a cobble rock 14 x 8 x 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; and dig pits 18 x 18 x 12 ins., N and S. of stone 3 ft dist. and raised a mound of earth 3 1/2 ft base 1 1/2 ft. high W. of cor.
52.50	Wire fence bears E and W. enter field
79.90	Irrigation ditch bears E and W.
80.00	Intersect E and W. line 147 lks. East of the cor. of secs. 20, 21, 28 and 29. As this falling exceeds the limits prescribed in the manual at my point of intersection I set a sandstone 18 x 8 x 6 ins. 12 ins in the ground for closing cor of secs. 28 and 29 marked C. C. with 2 grooves on S. and 4 grooves on E. faces dig pits 24 x 18 x 12 ins. crosswise on each line E. and W. 3 ft. and S. of stone 7 ft dist and raise a mound of earth 4 ft base 3 ft high S. of cor. and destroyed all marks pertaining to secs. 28 and 29 on the old cor of secs. 20, 21, 28 and 29

Land mountainous

Soil. rocky and stony 4th rate for the first 30 chs.
Sandy loam 1st rate for the last 50 chs.

No Timber; Shadscale undergrowth

Chains	
	on 52.70 chs. Mountainous land on 80.00 chs. Sept. 19: At this cor. I set off 1°44' N on the decl arc; and, at 11h 54m a. m. t. observe the sun on the meridian; the resulting lat is 40°17'50" N. or within 1' of the proper lat.
	Sept. 19 at 2h 00m p. m. l. m. t., I set off 40°16' N, on the lat. arc; 1°42' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 & 32 on the N. Bdy of Tp. which is a sandstone 6 x 11 x 6 ins. above ground marked and witnessed as described by the surveyor general
	Thence I run
	N. 0° 7' W. bet secs. 31 and 32
	Ascend gradually
23.15	Horse trail bears N. E and S. W.
31.15	New Stage Road Price to Vernal bears N. 60° E and S. 60° W
40.00	Set a sandstone 18 x 10 x 4 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
40.35	Foot of sandstone bluff bears E and W. begin steep ascent over loose boulders.
43.50	Top of ridge bears E and W. 75 ft above foot descend
48.00	Bottom of gulch drains E. 40 ft below top of ridge; ascend
54.40	Top of sandstone ledge 50 ft high descend
68.50	Bottom of descent bears E & W. begin rough and rocky ascent.
77.75	Top of rocky spur proj W. 150 ft

Subdivisions of T. 2. S. R. 16.

Chains	
	above bottom of descent, begin steep and rocky descent
80.00	Set a sandstone 36 x 12 x 8 ins 27 ins in the ground for cor. of secs. 29, 30, 31 and 32 marked with 1 notch on S. and 5 notches on E edges and raised a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land mountainous
	Soil, sandy and rocky 4th rate
	No timber
	Mountainous land on 80.00 chs.
	East on a random line bet secs. 29 & 32.
40.00	Set temp ¼ sec cor.
80.04	Intersect N and S. line 10 lks N of the cor. of secs. 28, 29, 32 and 33
	Thence I run
	N. 89° 56' W. on a true line bet secs. 29 & 32
	Descend along S. slope of sandstone ridge
2.00	Stream of waste water from canal on bench 30 lks wide 8 ins deep course S. W. thence over rolling land
18.80	Dry wash 3 ft deep 15 lks wide drains S.
28.90	Dry wash 10 lks wide 3 ft deep drains S.
40.02	Set a sandstone 24 x 8 x 8 ins. 18 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
48.50	Begin steep ascent over sandstone boulders and ledges.
62.00	Top of ridge bears N. E and S. W.

Subdivisions of T. 25 S. R. 16 E.

Chains	
	200 ft above foot
71.50	Begin steep and rocky descent along N. slope of spur projects W.
80.04	The cor. of secs. 29, 30, 31 and 32
	Land mountainous
	Soil, rocky and sandy 4th rate
	No timber
	Mountainous land on 80.04 ch.

	West on a random line bet. secs. 30 and 31
40.00	Set temp 1/4 sec. cor.
80.07	Intersect the West bdy 30.14 lks S. of the cor. of secs. 25, 30, 31 and 36 which is a sandstone 10×12×6 ins above ground marked and witnessed as described by the surveyor general
	Thence I run
	S. 89°47' E. on true line bet secs. 30 and 31
	Ascend
14.25	Top of ridge bears N. and S. 100 ft. above cor. descend
21.50	Foot of ridge thence gradual descent
40.07	Set a sandstone 18×7×5 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pits 18×18×12 ins E and W. of stone 3 ft. dist.; and raised a mound of earth 3½ ft base 1½ ft high N. of cor.
59.50	Dry wash drains S. 60° E.
72.40	Bottom of canon drains S. W. Stream of drainage water from canal 5 lks wide 6 ins deep course S. W. Ascend gradually
77.50	Begin steep ascent over sandstone boulders
80.07	The cor. of secs. 29, 30, 31 and 32
	Land mountainous
	Soil, rocky and stony 4th rate
	No timber

Subdivisions of T. 25 S. R. 1 E.

Chains	
	Mountainous land on 80.07 Chs. Sept 19, 1903
	Sept 20: at 8h 00m a. m. l. m. t. I set off 40°17' N. on the lat. arc; 1°25' N. on the decl. arc; and determine a meridian with the solar at the cor of secs. 29, 30, 31 and 32.
	Knowing from previous survey that a closing cor. would be necessary on S. Bdy. sec. 30 I run N. 0°7' W. on true line bet secs. 29 and 30
	Descend over loose sandstone boulders.
1.00	Foot of rough descent thence more gentle descent
19.50	Bottom of cañon drains S. 30° W. Stream of drainage water from canal 4 lks wide 6 ins deep course S. 30° W. ascend gently
24.20	Horse Trail N. E and S. W.
29.00	Horse Trail N. E and S. W.
40.00	Set a sandstone 24 x 8 x 6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable
53.00	Dry wash drains S. 60° E.
66.00	Foot of ridge bears N. E and S. W. begin steep ascent
69.00	Top of steep ascent 60 ft above beginning thence over rolling bench
73.30	Begin steep descent bears E and W.
76.00	Bottom of steep descent 50 ft below beginning; thence gentle descent
78.40	Horse trail bears E and W.
78.70	Begin gradual ascent.
80.00	Intersect E. and W. line 87 lks E. of the cor. of secs. 19, 20, 29 and 30

Subdivisions of T. 25 R. 16.

Chains

As this falling exceeds the limits prescribed in the manual at my point of intersection I set a sandstone 24 x 8 x 8 ins 18 ins in the ground for closing cor. of secs. 29 and 30. marked C. C. with 2 grooves on S. and 5 grooves on E faces; and raised a mound of stone 2 ft. base 1½ ft high S. of cor. Pits impracticable
Land mountainous
Soil, Rocky and stony 4th rate
No timber
Mountainous land on 80.00 chs.

Sept 20 1903

Destroyed marks on old corner pertaining to secs 29 x 30

General Description

This portion of this township is nearly all rough and mountainous and contains practically nothing but 4th rate soil
The ground is very dry and nothing but a scrub growth of greasewood, shadscale and rabbit brush grows upon it except along the Malad River, where cotton wood timber can be found,
There are no settlers on this portion of the township except one in the southern portions of secs. 20 and 21 and northern portion of secs. 28 and 29 name unknown
There are no minerals in this portion of the township and no water except waste water from the canals which are supplied with water from the Duchesne River

Harry Roger
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 Harry Roger, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision lines of T. 2 S. R. 1 E. Uintah Special Base and Meridian Utah, showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Roger, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of T. 2 S. R. 1 E. of the Uintah Special 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.

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, ~~189~~ 1903

SEAL

Harry Roger
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from Edward H. Anderson
United States Surveyor General for Utah, bearing date of th
22 day of July, ~~189~~ 1903, I have well, faithfully, and truly, in my ow
proper person, and in strict conformity with the instructions furnished by the United States Surveyo
General for Utah, the Manual of Surveying Instructions, and the laws of th
United States, surveyed all those parts or portions of Subdivision lines
of T. 2 S. R. 1 E.

of the Uintah Special
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 suff
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Harry Rager
United States Deputy Survey

Subscribed by said Harry Rager, and sworn to before me
this 4th day of January 1904

Edward H Anderson
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 30 1904, ~~189~~

The foregoing field notes of the survey of the Subdivision lines of
Township 2 South Range 1 East of the Uintah Special
Base & Meridian Utah

executed by Robert E. Collier & Harry Rager
under ~~his~~ the contract No. 269, dated July 22 1903, 189 , 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 offic

United States Surveyor Gene

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BOOK A-306

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JAN 4 1904

W.A. H.F.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines

of

Township No. 2 South Range No. 1 West

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rager, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, 1903 ~~189~~

Survey commenced Sept 20, 1903 ~~189~~

Survey completed Sept 21, 1903 ~~189~~

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Sight 1-00-10

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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Volume

#

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BOOK A-306

INDEX DIAGRAM.

Township No 25, *Range* N. 1 W.

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee 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 Subdivision Lines of T. 2 S. R. 1 W. of the Uintah Special Base and Meridian Utah.

A. B. Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September, 1893.

SEAL

Henry R. Atkinson
Notary Public

~~WE,~~ I Robert Douglas ~~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 Subdivision Lines in T. 2 S. R. 1 W. of the Uintah Special Base and Meridian, Utah.

Robt Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September, 1893.

SEAL

Henry R. Atkinson
Notary Public

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, C. E. Whiteman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision Lines in T. 2 S. R. 1 W. of the Uintah Special Base and Meridian Utah.

C. E. Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1893.

SEAL

Henry R. Atkinson
Notary Public

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Subdivisions of T. 25 S. R. 1 W.

Chains		
		Survey commenced Sept 20 1903 and executed with a W. and L. E. Gurley light mountain Transit (Not numbered) with solar attachment. The horizontal limb is provided with double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah Sept. 5 1903 I examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m hours, with a meridian determined by observations on Polaris I proceed as follows At the cor. of secs. 1, 2, 11 and 12 latitude 40° 20' N. longitude 109° 59' W. I set off 40° 20' N. on the lat. arc; 1° 18' N. on the decl. arc; and at 4h 00m 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 my station. At 7h 30m p. m. by my watch which is 4m 00s slow 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.

Subdivisions of T. 2 S. R. 1 W.

Chains

Sept 21: at 7 a.m. l.m.t., I lay off the azimuth of Polaris, 1°35' to the west and mark the meridian thus determined by cutting a small groove in the stone set Sept. 20 on which the meridian falls 0.2 ins. west of the mark determined by the solar.

At 8h 00m a.m. l.m.t I set off 40°20' N. on the lat. arc; 11°02' N. 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. west 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' 11" east and 0' 16" west of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory

The magnetic bearings of the true meridian at 9h 00m a.m. is N. 16°12' W.; the angle thus determined gives the mag. decl. 16°12' E.

From the Cor. of secs. 1, 2, 11 and 12 which is a sandstone 6 x 9 x 5 ins. above ground marked and witnessed as described by the surveyor general

Thence I run N. 0°01' W. on random line bet. Secs. 1 & 2

40.00 Set temp. 1/4 sec. cor.

80.10 Intersect the North Bdy. of the Township 8 chs. E of the cor. of secs. 1, 2, 35 and 36 which is a sandstone 6 x 10 x 8 ins above ground marked and witnessed as described by the surveyor general.

As this falling exceeds the limits

Subdivisions of T. 2. S. R. 1 W.

Chains	
	prescribed in the manual at my point of intersection I set a Cobblestone 16 x 10 x 6 ins 11 ins. in the ground, for closing cor. of secs. 1 and 2 marked C.C. on S. with 1 groove on E. and 5 grooves on W. faces; dug pits, 24 x 18 x 12 ins. crosswise on each line E and W. 3 ft. and S. of stone 7 ft. dist.; and raised a mound of Earth, 4 ft. base 2 ft. high S. of cor.
	Thence I run
	S. 0° 01' E on true line bet. secs. 1 and 2,
	Descend gently over rolling bench,
8.00	Begin more abrupt descent E. and W.
11.00	Bottom of gulch, 50 ft below top of bench, drains E, begin steep ascent
13.50	Begin more gradual ascent.
15.25	Top of ridge bears E and W. 60 ft. above bottom of gulch, descend
21.00	Bottom of gulch drains W. 50 ft below top of ridge ascend
23.00	Top of spur proj. W. 75 ft above bottom of gulch, begin steep and rocky descent
24.50	Bottom of gulch drains W. 125 ft below top of spur begin abrupt and tempestuous ascent.
30.25	Top of steep ascent bears N. E and S. W. 175 ft above bottom of gulch thence gentle descent along top of bench.
40.10	Set a sandstone 14 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raised a mound of stone 2 ft base 1½ ft. high, W. of cor. Pits impracticable.
40.25	Begin more abrupt descent bears N E and S. W.
44.00	Bottom of gulch drains E. 50 ft below top of bench begin abrupt ascent
47.50	Top of steep ascent bears S. E and W. 60 ft. above bottom of gulch thence

Subdivisions of T. 2. S. R. 1 W.

Chains	
	gentle descent over top of bench
58.00	Begin steep descent over sandstone ledges. bears N. 25° E and S. 25° W.
61.80	Cliff 50 ft high bears. N.W and S.E.
62.35	Top of cliff 40 ft high bears E and W.
62.40	Foot of same.
65.50	Bottom of abrupt descent bears. N.W and S.E. 300 ft below top. thence gentle descent
74.60	Bottom of gulch drains W. ascend
80.10	The cor of secs. 1, 2, 11 and 12. 50 ft above bottom of gulch.

Land mountainous
Soil rocky and stony 4th rate
No timber
Mountainous land on 80.10 chs.
Sept. 21 At this cor. I set off 0°57' N. on the diel arc. and at 12h 00m l.m.t. observe the sun on the meridian; the resulting lat. is 40°20' N or within 1' of the proper lat.
Sept. 21 1903

General Description

This portion of the township is mountainous The soil is all 4th rate and is covered with loose cobble rocks, Nothing grows upon it and the ground is very dry having no water upon it.
No timber is found upon it and no signs of any mineral.
There are no settlers upon this portion of the township.

Harry Roger
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision Lines of T. 2 S. R. 1 W. of the Uintah Special Base and Meridian, Utah, showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision Lines of T. 2 S. R. 1 W. of the Uintah Special 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

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, ~~189~~ 1903

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Roger, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, ~~189~~ 1903, 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. 2 S. R. 1 W.

of the Uintah Special 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.

Harry Roger
United States Deputy Surveyor.

Subscribed by said Harry Roger, and sworn to before me this 4th day of January 1904

Edward H. Anderson
U. S. Surveyor-General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 30 1904, 189

The foregoing field notes of the survey of the subdivisional lines of Township 2 South Range 1 West of the Uintah Special Base & Meridian Utah

executed by Robert E. L. Collier and Harry Roger under ~~his~~ the contract No. 269, dated July 22, 1903, 189 , 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-306

FIELD NOTES

R.3.B.

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 1 South Range No. 2 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert Ch. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, 1903 ~~189~~

Survey commenced Sept 21, 1903 ~~189~~

Survey completed Sept 23, 1903 ~~189~~

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Trees high 5 49.99

" low 1 14.15

Clearing 17.49

NAMES AND DUTIES OF ASSISTANTS.

A B Larson	Chainman
Edward McKee	Chainman
Robt Douglas	Moundman
C E Whiteman	Flagman

6—151

Volume
#
R0306

BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

We, A B Larson and Edward McKee 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 Subdivision lines of T 1 S R 2 E of the Uintah Special Base and Meridian in the State of Utah

A B Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September, 1903

Henry M. Atkinson
Notary Public

SEAL

We, Robt Douglas 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 Subdivision lines of T. 1 S R 2 E. of the Uintah Special Base and Meridian in the State of Utah

, Moundman.

Robt Douglas, Moundman.

Subscribed and sworn to before me this 4th day of September, 1903

Henry M. Atkinson
Notary Public

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, C E Whitman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision lines of T 1 S R 2 E. of the Uintah Special Base and meridian in the State of Utah

C E Whitman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

Henry M. Atkinson
Notary Public

SEAL

6—11

Subdivisions of T. 1 S R 2 E.

Chains

Survey commenced Sept 21 1903 and executed with a W and L. E. Gurley light mountain transit (not numbered) with solar attachment, for a description of which See Notes of Retracement and Resurvey of Subdivisions of T. 2 S R 1 E, Book "A" I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris I proceed as follows;

At the cor. of secs. 8, 9, 16 and 17 which is a sandstone 6 x 6 x 6 ins above ground marked and witnessed as described by the surveyor general in latitude 40°25' N. longitude 109°49'13" W I set off 40°25' N. on the lat. arc; 0°55' N. on the decl. arc; and at 3h 00m 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 corner.

At 7h 27m p.m. by my watch, which is 4m 00s slow 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.

Sept 21, 1903

Sept 22 at 7h 30m a.m. l.m.t. I lay off the azimuth of Polaris 1°35' to the west, and mark the meridian thus determined

Subdivisions of T 15 R 26,

Chains

by cutting a small groove in the stone set Sept 21 on which the meridian falls 0.4 ins. east of the mark determined by the solar.
at 9h 00m a. m. l. m. t. I set off 40° 25' N, on the lat. arc; 0° 38' N, 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 defines positions for meridian respectively about 0' 21" west and 0' 16" east of the meridian established by the Polaris observations therefore I conclude that the adjustments of the instrument are satisfactory
The magnetic bearing of the true meridian at 9h 30m a.m. is N. 15° 50' W.; the angle thus determined gives the mag. decl. 15° 50' E.

From the cor. of secs. 5, 9, 16 and 17 heretofore described in this book I run
N. 0° 1' W. on a true line bet secs. 8 and 9
Descend gradually
20,00 Intersect a sandstone 8 x 6 x 6 ins. above ground marked 1/16 on W. face
21,50 Wagon Road bears E and W.
21,75 Dry wash drains S. W.
24.85 Wagon Road bears E and W.
28.60 Deep Creek 5 lks. wide 6 ins deep drains S. W. ascend
40,00 Set a sandstone 18 x 12 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins N and

Subdivisions of T 1 S R 2 E.

Chains	
	S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of Cor.
43,00	Begin steep ascent bears N. W and S. E.
48,50	Top of ascent 200 ft. above Deep Creek bears N. W. and S. E. descend
80,00	Set a cobble-rock 18 x 12 x 6 ins., 12 ins. in the ground for cor. of secs. 4, 5, 8 and 9 marked with 5 notches on S and 4 notches on E. edges; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 80,00 chs.
	East on a true line bet. secs. 4 and 9
	Descend gradually
2,00	Begin steep descent bears N and S.
10,50	Bottom of steep descent bears N. and S. descend gently.
20,40	Deep Creek 5 lks. wide 12 ins. deep drains S. ascend
23,80	Wagon Road bears N. and S.
28,20	Dry wash drains S. W. begin abrupt ascent
40,00	Top of steep ascent bears N. and S. ascend gradually
	Set a cobble rock 18 x 10 x 10 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
45,00	Top of ridge bears N and S. descend
47,12	Intersect the East Bdy of the Uintah Indian Reservation.
	Set a sandstone 20 x 12 x 6 ins. 15 ins. in the ground for closing cor. of fract. secs.

Subdivision Lines of T. 1 S. R 2 E.

Chains	
	4 and 9 marked C C J/R with 3 grooves on W. 5 grooves on S and P.L. on E. faces and raised a mound of stone 2 ft. base 1½ ft. high W. of Cor. Pits impracticable
	From this closing cor. the 24 mile cor. E. bdy. Uintah Indian Res. as established by Deputies A H & F M. Brown bears N. 11° W. 12.91 chs. dist.
	Thence I continue East on blank line
80.00	Set temp cor. of secs. 3, 4, 9 and 10.
	Land mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous Land on N. 1½ chs.
	From the temp. cor. of secs. 3, 4, 9 and 10 I run
	North on a blank line bet secs. 3 and 4
47.56	Intersect the East Boundary of the Uintah Indian Reservation
	Set a sandstone 18 x 10 x 8 ins 12 ins in the ground for closing cor. of secs. 3 and 4 marked C C J/R with 1 groove on N. 3 grooves on W. and P.L. on S. faces and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
	From this closing cor. the ½ mile cor. bet the 24 and 25 mile cor. E. bdy. Uintah Indian Reservation as established by Deputies A H & F M Brown bears N. 18° E 3.32 chs. dist.
	Thence I continue North on a true line bet secs. 3 and 4
	Ascend gently along W. slope of ridge
80.50	Intersect the Uintah Special Base line 0.41 chs West of the cor. of secs. 33 and 34 of T. 1 N. R. 2 E. which is a

Subdivisions of T. 15 R 2 E.

Chains	
	sandstone 5 X 8 X 6 ins above ground marked and witnessed as described by J. H. Martineau, contract No. 265.
	Set a sandstone 18 X 8 X 6 ins. 12 ins. in the ground for closing cor. of secs. 3 and 4 marked C C on S with 3 grooves on E. and W. faces and raise a mound of stone 2 ft. base 1½ ft. high S. of Cor. Pits impracticable
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 32.94 chs
	Sept 12 at 12h 00m m. l. m. t. sky was overcast and observation impossible
	From the cor. of secs. 4, 5, 8 and 9 I run
	N. 0°01' W. on a true line bet. secs. 4 and 5
	Descend abruptly along N. E. slope of ridge
34.00	Bottom of abrupt descent bears N. W. and S. E. descend gradually.
34.20	Enter dense willow undergrowth bears N. W. and S. E.
35.00	Deep creek 5 lks. wide 6 ins. deep course S. E. ascend
40.00	Set a sandstone 16 X 10 X 4 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
40.50	Leave dense willow undergrowth bears N. W. and S. E.
60.30	Wagon road bears N. W and S. E.
73.25	Begin more gradual ascent bears N. W. and S. E.
80.54	Intersect the Montana Special Base line 0.47 chs West of the cor. of secs 32 and 33 of T. 1 N R 2 E. which is a sandstone 9 X 9 X 8 ins above ground marked and witnessed as described by

Subdivisions of T. 15 R 2 E.

Chain

J. H. Martineau, contract No 265
Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for closing cor. of secs. 4 and 5 marked C.C. on S. with 4 grooves on E. and 2 grooves on W. faces and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable
Land mountainous
Soil, sandy and rocky 3rd and 4th rates
No timber
Dense willow undergrowth on 6.20 chs.
Mountainous land on 80.54 chs.
Sept 22 1903

Sept 23-03 at 8h 10m a.m. I set off 40°25' on the lat arc. 0°16'N on the decl. arc; and determine a meridian with the solar at the ¼ sec. cor. bet secs 7 and 8 which is a sandstone 5 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general
Thence I run
N 0° 2' W on a true line bet. secs. 7 and 8
Ascend over rolling country, sloping S.W.
30.15 Begin more abrupt ascent bears E and W.
33.10 Top of ridge spur projects W. descend
34.10 Ledge 15 ft. high bears E and W.
35.50 Bottom of ravine drains W. ascend
40.00 Set temp cor. of secs. 5, 6, 7 and 8
Permanent cor. afterwards set at 40.00 chs, see basis between secs 6 & 7.
Land, mountainous
Soil, rocky and clay 4th rate
No timber
Mountainous land on 9.85 chs.

Subdivisions of T. 15 R 2 E.

Chains	
	West on a random line bet. secs. 6 and 7
40.00	Set temp. 1/4 sec. cor.
79.30	Intersect W. Bdy of the township at the cor. of secs. 1, 6, 7 and 12 which is a sandstone 6 x 6 x 6 ins above ground marked and witnessed as described by the surveyor general
	Thence I run
	East on a true line bet. secs. 6 and 7
	Ascend gently over rolling flat.
3.10	Dry wash drains S. W.
36.80	Dry wash drains S. W.
39.30	Set a cobble rock 24 x 14 x 14 ins, 18 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of Cor. Pits impracticable
64.00	Small spur projects S. W. descend
67.15	Dry wash drains S. W. ascend
79.30	The temp. cor. of secs. 5, 6, 7 and 8
	Set a cobble rock 24 x 12 x 10 ins, 18 ins in the ground for cor. of secs. 5, 6, 7 and 8 marked with 5 notches on S. and E. edges and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor. Pits impracticable
	Land, rolling ~~mountainous~~
	Soil, rocky and sandy at a rate
	No timber
	Mountainous land on 15.30 chs.
	East on a random line bet. secs. 5 and 8
40.00	Set temp. 1/4 sec. cor.
79.80	Intersect N. and S. line 8 chs. S. of the cor. of secs. 4, 5, 8 and 9
	Thence I run
	S. 89° 57' W. on a true line bet. secs. 5 and 8
	Ascend gently
3.00	Top of ridge bears N and S. Descend

Subdivisions of T 1 S R 2 E,

Chains	
4,80	Begin abrupt descent bears N. and S.
13,15	Bottom of gulch drains S.E. ascend
39,90	Set a cobble-rock 18 x 14 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
54,50	Top of ridge bears N and S.E. 200 ft above bottom of gulch descend,
79,80	The cor. of secs. 5, 6, 7 and 8
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 79,80 chs,
	N. 0° 2' W. on a true line bet. secs. 5 and 6 Ascend gradually along rough and broken W. slope of ridge
8,00	Top of spur projects W. descend
17,00	Bottom of ravine drains W. ascend
34,40	Top of ascent bears E and W. descend
40,00	Set a cobble rock 18 x 10 x 8 ins, 12 ins, in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
55,60	Bottom of ravine drains W. ascend
80,44	Intersect the Uintah Special Base line 0.44 chs West. of the cor. of secs. 31 and 32 of T 1 N R 2 E, which is a sandstone 7 x 9 x 6 ins. above ground. marked and witnessed as described by J. H. Martineau contract No. 265. Set a sandstone 20 x 12 x 6 ins 15 ins, in the ground for closing cor. of secs, of secs. 5 and 6 marked C C on S. with 5 grooves on E. and 1 groove on W, faces and raise a mound of stone 2 ft base 1½ ft high S. of Cor

Subdivisions of T. 1 S. R 2 E

Chains	
	Pits impracticable Land mountainous Soil, sandy, rocky, and stony 4th rate No timber Mountainous land on 80.44 chs. At this cor. I set off 0° 11' N. on the deck arc, and at 12h 00 m m. l. mt. observe the sun on the meridian, the resulting lat is 40° 26' N. or within 1' of the proper lat. Sept 23, 1903

General Description

This fractional township is very dry and barren having no vegitation upon it except along Bear creek which runs through a portion of it where in place bunches of dense willows grow. The soil is all sandy, rocky and stony of the 4th rate There are no indications of mineral upon it and no settlers.

Harry Rogers
U.S. Deputy Surveyor.

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BOOK A-306

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, an marking the lines and corners described in the foregoing field notes of the survey of Subdivision lines of T. 15 S. R. 2 E. of the Utah Special Base and Meridian, the State of Utah showing the respective capacities in which they acted:

A B Larson, Chainman
Edward McKee, Chainman
Robert Douglas, Moundman
, Moundman
, Axman.
, Axman.
C E Whiteman, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying a those parts or portions of the Subdivision lines of T 15 S R 2 E of the Utah Special Base and meridian, State of Utah, which are represente in the foregoing field notes as having been surveyed by him and under his direction; and that said surve has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and tl corner monuments established, according to the instructions furnished by the United States Surveyo General for Utah

A B Larson, Chainman.
Edward McKee, Chainman.
Robt Douglas, Moundman
, Moundman
, Axman.
, Axman.
C E Whiteman, Flagman.

Subscribed and sworn to before me this 22nd day of October 1903, 189

Harry Rogers
U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, 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 Township No 1 South Range No 2 East

of the Uintah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 27th day of May 1904 189

Edward H Anderson
U.S. Surveyor General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 30 1904, 189

The foregoing field notes of the survey of the subdivisional lines of Township 1 South Range 2 East of the Uintah Special Base & Meridian, Utah

executed by Robert E. L. Collier and Harry Rager under the contract No. 269, dated July 22 1903, 189 , 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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Ex. H.H.A.

4—679.

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BOOK A-306

FILED

JAN 28 1904

FIELD NOTES

K.J.B.

OF THE SURVEY OF THE

Mintah Special Meridian

through

Township No. 3 South

Of the Mintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robt E. L. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, ~~189~~ 1903

Survey commenced Sept. 24th, ~~189~~ 190

Survey completed Sept 25th, ~~189~~ 190

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Weigh 1 42.72

BOOK A-306

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Chas. T. Nye	Chainman
Stephen Adams	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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BOOK A-306

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

We, A. B. Larson, Edward McKee and Chas. T. Nye and Stephen Adams 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 Uintah Special Meridian through Tps. 3 S. of the Uintah Special Base & Meridian, Utah

A. B. Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September, 1903

Chas T Nye chainman

Stephen Adams chainman

SEAL

Henry R. McKeown
Notary Public

~~We,~~ I Robert Douglas ~~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 Uintah Special Base & Meridian, Utah

Robert Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McKeown
Notary Public

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, C. E. Whiteman, 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 Uintah Special Meridian through Tps. 3 S. of the Uintah Special Base & Meridian, Utah

C. E. Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McKeown
Notary Public

Chains

Mintah Special Meridian through Tps. 3. S.

Survey commenced Sept 24-1903 and executed with a W and L. E. Gurley light mountain transit with solar attachment for a description of which see Notes of Retracement and Recovery Lines of T. 2. S. R. 1 E. in Book A
I examine the adjustments of the transit, which I found to be correct and as the declination of the sun was so small that the solar observations by p. m and a. m. observations would not check with a meridian determined by observations on Polaris.
I begin at the 1/4 sec cor bet. secs 25 and 30. on the Mintah Special meridian between Tps. 3 S. Rs. 1 E and 1 W. Lat 40° 12' N, Long, 107° 58' 15" W.
at this corner, at 7h 15m p.m. by my watch which is 4 m slow of l. m. t. I observe Polaris at eastern elongation in accordance with instructions in the manual, and mark a point in the line thus determined by a tack driven in a wooden peg firmly set in the ground 10.00 chs. north of my station
Sept. 25 At 7h 30m a. m. I lay off the azimuth of polaris 1° 35' to the west, and mark the meridian thus determined by a nail driven in a stake firmly set in the ground 10.00 chs N. of my station.
The magnetic bearing of the true meridian is N. 16° 12' W which gives the magnetic declination 16° 12' E
Thence I run
North on a random line on the Mintah Special Meridian bet Tps. 3 S.

Muntak Special Meridian through T. 35.

Chains

	Difference between measurement of distance from 1/4 sec cor. bet secs. 25 and 30 and the cor. of secs 13, 18, 19 and 24 is 24 lks. position of middle point By 1st set, 122.60 By 2nd set, 122.84 the mean of which is
122.72	Fall 97 lks. W. of the cor. of secs. 13, 18, 19 and 24 which is a sandstone 9x8x6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general thence from the cor. of secs. 13, 18, 19 and 24 I run S. 0°27' W. on the Muntak Special Meridian bet secs. 19 and 24 ascend steep N. slope of ridge
1.20	Top of ridge bears E. and W. 50 ft above corner, begin gradual descent
6.20	Begin steep descent bears S. W and E.
7.20	Bottom of gulch drains S. E. 40 ft. below beginning of steep descent. ascend
9.00	Top of spur projects S. E. 25 ft above bottom of gulch thence steep descent
14.00	Bottom of ravine drains S. E. 75 ft below top of spur ascend
16.75	Top of spur proj. E. 30 ft above bottom of ravine descend
19.20	Bottom of gulch drains S. 30° E 35 ft below top of spur. ascend
26.00	Top of ridge bears N. 30° W. and S. 30° E. 30 ft above bottom of gulch. descend
28.00	Bottom of gulch drains E. 15 ft. below top of ridge ascend
29.25	Top of small ridge bears E. and W. 15 ft above bottom of gulch descend
31.60	Bottom of ravine 25 ft. deep drains E. ascend
37.25	Top of small spur projects E. 20 ft above bottom of ravine descend
38.50	Bottom of small ravine drains E. 20 ft below top of spur ascend

Uintah Special Meridian through Tps. 3 S.

Chains	
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 10 lks; position of middle point By 1st set 39.95 By 2nd set 40.05; the mean of which is
40.00	Set a sandstone 16x8x8 ins 11 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
46.60	Begin steep descent bears. N.W and S.E.
53.25	Bottom of gulch drains S.E. 60 ft below beginning of steep descent. ascend
66.70	Top of spur projects. E. 125 ft above bottom of gulch descend
73.00	Bottom of gulch 100 ft. below top of spur, drains S. 65° W. ascend
75.40	Top of ridge 70 ft above bottom of gulch bears N. 6° and S.W. descend
	Difference bet. measurements of 80.00 chs., by two sets of chainman, is 26 lks; position of middle point By 1st set 79.87 chs. By 2nd set 80.13 chs. the mean of which is
80.00	Set a sandstone 20x10x8 ins 15 ins in the ground for cor. of secs. 19, 24, 25 and 30 marked with 4 notches on N. and 2 notches on S. edges and raised a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable Land mountainous Soil, Rocky and clay 4th rate No Timber Mountainous land on 80.00 chs.
	S. 0°27' W. on the Uintah Special Meridian bet secs. 25 and 30. Descend

Uintah Special Meridian through T. 3 S.

Chains	
3.65	Begin steep descent N. E and S. W.
4.50	Head of gulch drains W. 50 ft. below beginning of steep descent. ascend
5.75	Top of spur projects W. 25 ft. above head of gulch, descend
6.60	Bottom of gulch drains W. 25 ft below top of spur ascend
7.80	Top of small bench 25 ft above bottom of gulch descend gently
21.00	Begin abrupt descent bears E. and W.
36.00	Bottom of abrupt descent 75 ft below beginning. thence gradual descent
37.50	Dry Wash 15 lks wide 3 ft deep drains S. 60° E.
	Difference bet. measurements of 42.72 chs., by two chainmen, is 14 lks; position of middle point by 1st set 42.65 by 2nd set 42.79 the mean of which is
42.72	Intersect the 1/4 sec. cor. bet. secs. 25 and 30 which is a sandstone 6 x 9 x 7 ins. above ground marked and witnessed as described by the surveyor general.
	Land, mountainous
	Soil, Rocky and clay 4th rate.
	No timber
	Mountainous land on 42.72 chs.
	Sept. 25, 1903

For General Description See Notes of Subdivisions of T. 3 S., R. 1 W.

Harry Roger
U. S. Deputy Surveyor

BOOK A-306

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harry Rager, United States Deputy Surveyor, to assist in running, measuring, a marking the lines and corners described in the foregoing field notes of the survey of Uintah Special Meridian through Tps. 3 S. of the Uintah Special Base & Meridian, Utah showing the respective capacities in which they acted:

A. B. Larson, Chainman
Edward McKee, Chainman
Robert Douglas, Moundman
Chas. T. Nye, ~~Moundman~~ Chainman
Stephen Adams, ~~Axman.~~ Chainman
, Axman.
A. E. Whitman, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rager, United States Deputy Surveyor, in surveying those parts or portions of the Uintah Special Meridian through Tps. 3 South of the Uintah Special Base and Meridian, State of Utah, which are represent in the foregoing field notes as having been surveyed by him and under his direction; and that said surv has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and t corner monuments established, according to the instructions furnished by the United States Survey General for Utah

A B Larson, Chainman
Edward McKee, Chainman
Robt Douglas, Moundman
Chas T Nye, ~~Moundman~~ Chainman
Stephen Adams, ~~Axman.~~ Chainman
, Axman.
A E Whitman, Flagman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rager
U. S. Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Roger, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, 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 Uintah Special Meridian through Tps. 3 South

of the Uintah Special 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.

Harry Roger
United States Deputy Surveyor.

Subscribed by said Harry Roger, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah June 30 1904, 189

The foregoing field notes of the survey of the Uintah Special Meridian through Township 3 South, between Range 1 East & 1 West of the Uintah Special Base & Meridian Utah

executed by Wm. E. Collier & Harry Roger under the contract No. 269, dated July 22 1903, 189, 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-306

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Resurvey and Retracement

of the

South Boundary

of

Township No 3 South Range No 1 West

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Ragen, United States Deputy Survey

Under ~~his~~ their Contract No. 269, dated July 22 190 ~~18~~

Re Survey commenced Sept 25, 190 ~~18~~

Re Survey completed Sept 26 190 ~~18~~

6—151

Resurvey high - 3 79 24

Retracement low 1 78 28

BOOK A-306

NAMES AND DUTIES OF ASSISTANTS.

Chas T. Nye	Chainman
Stephen Adams	Chainman
Albert Pace	Moundsman
Leon Smith	Flagman

BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Chas. T. Nye and Stephen Adams 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~~ Resurvey and Retracement of the S. Bdy. of T. 3 S R 1 W. of the Uintah Special Base and Meridian, State of Utah

Chas T. Nye, Chainman.

Stephen Adams, Chainman.

Subscribed and sworn to before me this 22nd day of September, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

I ~~WE~~, Albert Pace and ~~and~~ do solemnly swear that ~~we~~ I 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 of~~ Resurvey and Retracement of the S. Bdy. of T. 3 S R 1 W of the Uintah Special Base and Meridian in the State of Utah

Albert Pace, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of September, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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, Leon Smith, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey of~~ Resurvey and Retracement of S. Bdy. of T. 3 S R 1 W of the Uintah Special Base and Meridian, State of Utah

Leon Smith, Flagman.

Subscribed and sworn to before me this 22nd day of September, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

6—151

Retracement and Resurvey of South Bdy. of T 3 S R 1

Chains

Survey commenced Sept. 25 1903 and executed with a Buff & Buff light mountain transit (not numbered) the horizontal limb being provided with two opposite verniers reading to single minutes of arc;

At the cor. of Tps. 3 and 4 S. Rs 1 E and 1 W. on the Utah Special meridian which is a sandstone 10x12x6 ins. above ground marked and witnessed as described by the surveyor general in latitude 40°11'N, longitude 109°58'15"W. at 7h 13m p.m. by my watch which is 2m 00s slow of l.m.t; I observe Polaris at Eastern elongation in accordance with Manual of Instructions and mark the line thus determined, by a tack drawn in a wooden peg set in the ground 5 chs. N. of my station

Sept 26 1903 At 7 a.m. I turn off the azimuth of Polaris 10°35' to the west, and mark the meridian thus determined by cutting a mark on a stone firmly set in the ground, west of the mark established last night; the magnetic bearing of said true meridian is N, 16°25'W. the angle thus determined gives the mag. decl 16°25' E.

Knowing that the South Boundary of this township was not within limits and to be able to check the closings of secs. in Tps 3 and 4 South Rs 1 W. I run

S. 89°54'W. on a random retracement line on the South Boundary turning an angle of 90°06' from the meridian from North to West.

40.00 Qed 1/4 sec. cor. found laying loose upon the ground

80.00 No trace of old cor. of secs. 1, 2, 35 and 36 could

Retracement and Resurvey of South Boundary of T. 3 S R 1 W,

Chains	
	be found in the radius of 5 chs. Set temp. cor. of secs. 1, 2, 35 and 36
12,00	No trace of the old 1/4 sec. cor. but secs. 2 and 35 could be found in the radius of 5 chs. Set temp. 1/4 sec. cor.
16,00	No trace of old cor. of secs. 2, 3, 34 and 35 could be found in the radius of 5 chs. Set temp. cor. of secs. 2, 3, 34 and 35.
20,00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs. Set temp 1/4 sec. cor.
24,00	Old cor. of secs. 3, 4, 33 and 34 found laying loose upon the ground, nothing to identify its location
28,00	No trace of old 1/4 sec. cor. but secs. 33 and 4 could be found in the radius of 5 chs. Set temp. 1/4 sec. cor.
31,95	Fall 2.89 chs. S. of the cor. of secs. 4, 5, 32 and 33 which is a sandstone 14 x 8 x 8 ins. above ground firmly set and marked and witnessed as described by the surveyor general Thence I run S. 89° 35' E. on a true resurvey line bet. secs. 4 and 33 Descend
0,20	Bottom of gulch drains N. W. 5 ft. below cor thence abr. asc.
4,45	Top of ascent bears N. W. and S. E. 100 ft. above bottom of gulch thence nearly level along top of bench through shadscale undergrowth.
32,25	Begin abrupt descent bears N. E. and S. W. over sandstone boulders
34,51	Horse trail bears N. E. and S. W.
34,92	Bottom of gulch drains N. E. 100 ft. below beginning of abr. desc. asc.
36,60	Top of spur projects N. 75 ft. above bottom of gulch, descend
39,90½	Set a sandstone 24 x 16 x 3 ins. 18 ins. in the ground for reestablished 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	Bottom of gulch drains N. W. 75 ft. below top of spur, begin rough and broken ascent over loose cobble rocks and sandstone boulders and ledges
42,65	Top of cliff 20 ft. high bears N. W. and S. E.
44,50	Top of bench bears N. W. and S. E. 150 ft above bottom of gulch thence level
52,30	Horse trail bears N. E. and S. W.
60,65	Begin descent bears N. W. and S. E.
63,60	Bottom of gulch drains N. 75 ft. below beginning of descent thence gradual ascent
70,80	Bottom of gulch drains N. 15° W. 4 chs. to junction thence N. W. 25 ft. above bottom of last gulch,
75,00	Bottom of swine drains N. W. 25 ft. above bottom of last gulch asc. abruptly

Resurvey and Retracement of S. Bdy. of T. 3 S. R. 1 W.

Chains	
77.25	Top of abrupt ascent bears N. and S. 50 ft. above bottom of ravine thence nearly level.
79.81	At this point I reset the old cor. of secs. 3, 4, 33 and 34 which is a sandstone 20 x 8 x 3 ins, marked as described by the surveyor general which I set 15 ins. in the ground; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft base 2 ft high N. of cor.
	Land mountainous
	Soil, rocky and stony 4th rate
	No Timber, shadscale undergrowth on 75.36 chs.
	Mountainous land on 79.81 chs.
	S. 89° 35' E. on a true resurvey line bet. secs. 3 and 34.
	Along top of rolling flat through shadscale undergrowth
13.50	Begin descent bears N. and S.
16.40	Bottom of gulch drains N. 75 ft below beginning of descent, ascend abruptly.
17.65	Top of abrupt ascent bears N. and S. 75 ft. above bottom of gulch, ascend gently
22.80	Top of ridge bears N. E. and S. W. descend
26.30	Bottom of ravine drains N. W. 75 ft. below top of ridge, ascend
38.80	Top of ridge bears N. W and S. E. 100 ft above bottom of ravine, descend
39.90½	Set a sandstone 14 x 8 x 6 ins 9 ins. in the ground for re-established 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

Resurvey and Retracement of South Bdy. of T.3 S.R.1 W.

43.55	Bottom of ravine drains N. 30° W. 50 ft. below top of ridge, ascend
45.10	Top of spur projects N. 30 ft above bottom of ravine, descend
47.00	Bottom of ravine drains N. 30 ft below top of spur, ascend abruptly
48.30	Top of abrupt ascent bears N.E. and S.W. ascend gently, 40 ft. above bottom of ravine
50.00	Top of ridge bears N.E. and S.W. descend
55.30	Bottom of ravine drains N.E. 50 ft below top of ridge ascend
57.80	Top of ridge bears N. 30° E. and S. 30° W. 40 ft above bottom of ravine, descend
60.80	Bottom of ravine drains N. 75 ft. below top of ridge, ascend abruptly.
69.40	Top of steep ascent bears N. and S. 100 ft above bottom of ravine, ascend gently
74.50	Top of ridge bears N. and S. 60° W. descend abruptly
79.30	Begin steep descent over sandstone cliffs.
79.81	Set a sandstone 24 x 15 x 6 ins 18 ins. in the ground for reestablished cor of secs. 2, 3, 34 and 35 marked with 2 notches on E. and 4 on W. edges, and raise a mound of stone 2 ft base 1½ ft. high N. of cor. Pits impracticable. This corner is set at the foot of a sandstone ledge 25 ft high and is 150 ft. below top of ridge
	Land, mountainous
	Soil, rocky, sandy and stony 4th rate
	McTimber; shadscale undergrowth on 79.81 chs
	Mountainous land on 79.81 chs.
	Oct. 25, 1903

S. 89° 35' E. on a true resurvey line bet. secs. 2 and 35

Descend over rough broken country and

Resurvey & Retracement of South Bdy. of T. 3 S. R. 1 W.

Chains	
	sandstone boulders
1.00	Bottom of rough and broken descent bears N. and S. thence gradual descent.
17.00	Wagon Road Fort Duchesne to Parette Mine bears N 30° E. and S. 30° W.
21.00	Horse trail bears N. and S.
21.90	Horse trail bears N. and S.
24.50	Horse trail bears N. and S.
33.50.	Dry wash drains N. W. begin gradual ascent.
39.90.	Set a sandstone 14 x 8 x 8 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
60.00	Top of spur projects S. thence ascend along S. slope of ridge
77.00	Top of ascent bears N. and S. descend
79.81	Set a cobblerock 18 x 8 x 6 ins. 12 ins. in the ground for re-established cor. of secs. 1, 2, 35 and 36 marked with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable Land, mountainous Soil, sand and clay 4th rate No timber Mountainous land on 79.81 chs.
	S. 89°35' E. on a true resurvey line bet. secs. 1 and 36
	Descend
9.00	Bottom of descent bears N.E. and S.W. ascend
13.80	Top of spur projects S. 40 ft. above bottom of descent descend
21.00	Bottom of descent bears N. and S. 20 ft. below top of spur ascend
30.00	Top of spur projects S. 40 ft. above

Resurvey and Retracement of South bdy. of T. 3 S. R. 1 W.

Chains	
	bottom of descent. descend
31.50	Bottom of dry wash drains S. 40 ft below top of spur ascend gently
36.50	Dry wash drains S. E.
40.00	at this point I reset old 1/4 sec. cor which is a sandstone 16 x 10 x 6 ins. marked as described by the surveyor general which I set 10 ins. in the ground for reestablished 1/4 sec. cor; and raise a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable
41.50	Dry wash drains S. E.
59.50	Dry wash drains N.
60.50	Begin rough and rocky ascent bears N. and S.
79.81	Intersect the cor. of tps 3 and 4 S R 16 and 1 W. heretofore described
	Land, mountainous
	Soil, Clay and rocky 4th rate
	No timber
	Mountainous land on 79.81 chs.

	S. 89°54' W. on a random retracement line bet. secs. 5 and 32
35.87	Fall 125 lks. S. of the 1/4 sec cor. which is a sandstone 12 x 6 x 4 ins. set in a mound of stone marked and witnessed as described by the surveyor general
78.91	Fall 113 lks. S. of the cor. of secs. 5, 6, 31 and 32. which is a sandstone 8 x 6 x 4 ins. above ground marked and witnessed as described by the surveyor general
	Thence I run N. 89° 43' E. on a true retracement line bet. secs. 5 and 32
	Descend gently
2.90	Dry wash drains N. E. ascend gradually
26.40	Begin more abrupt ascent bears N. and S.

Resurvey and Retracement of South Bdy, of T. 35 R. 1 W.

Chains	
31.15	Top of spur projects N. 50 ft above beginning of more abrupt ascent, descend
35.40	Bottom of ravine drains N. 30° E 50 ft. below top of spur
40.60	Dry wash drains N. ascend
43.04	Intersect the 1/4 sec. cor. heretofore described
	Thence I run
	S. 88° 06' E. on a true retracement line bet. secs. 5 and 32
	ascend
44.55	Begin steep ascent bears N. and S.
50.15	Top of clay spur projects S. 50 ft. above beginning of steep ascent descend
56.00	Bottom of gulch drains N. W. 20 ft. below spur
56.20	Horse trail bears N. and S.
58.40	Dry wash drains N. W. ascend gradually
60.30	Horse trail bears N. E. and S. W.
60.50	Begin more abrupt ascent bears N. and S.
65.90	Top of spur projects N. 25 ft above dry wash, descend
67.60	Horse trail bears N. and S.
68.40	Bottom of ravine drains N. 15°E. 25 ft, below top of spur ascend abruptly over sandstone ledges, boulders and loose cobble-rocks
73.10	Ledge 15 ft, high bears N. and S.
73.20	Top of spur projects N. 75 ft. above bottom of ravine, descend abruptly over sandstone ledges, boulders and loose cobblerocks
78.91	The cor. of secs. 4, 5, 32 and 33
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 78.91 chs.
	S. 89° 54' W. on a random line bet. secs 6 and 31

Resurvey and Retracement of South Bdy. of T. 3 S R 1 W.

Chains

41.29 Fall 77 lks. S. of the old 1/4 sec. cor. which is a sandstone 10 x 6 x 4 ins. above ground marked and witnessed as described by the surveyor general

79.30 Fall 155 lks. N. of the cor. of Secs. 5 and 32, Rgs. 1 and 2 W which is a sandstone 18 x 12 x 4 ins. above ground in a mound of stone marked and witnessed as described by the surveyor general,

Thence I run

N. 86° 25' E. on a true line bet. secs. 6 and 31 over level sandy land through shadscale and greasewood undergrowth

24.45 Horse trail bears N. 10° W. and S. 10° E.

38.08 Intersect the 1/4 sec. cor. heretofore described

Thence I run

S. 89° 02' E. on a true retracement line

63.55 Horse trail bears N. 10° E. and S. 10° W.

79.37 The cor. of secs. 5, 6, 31 and 32

Land, level

Soil, sandy 4th rate

No Timber, shadscale and greasewood undergrowth on 79.37 lks.

Sept. 26-1903

For general Description see Note of Subdivisions lines of T. 3 S R 1 W. in Book "I"

Robert E. L. Collier
U.S. Deputy Surveyor.

BOOK A-306

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Robert E. L. Collier, 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~~ Resurvey and Retracement of the South Boundary of T. 3 S R 1 W. of the Uintah Special Base and Meridian, State of Utah showing the respective capacities in which they acted:

Chas. T. Nye, *Chainman.*
Stephen Adams, *Chainman.*
Albert Pace, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Robert E. L. Collier, United States Deputy Surveyor, in surveying all those parts or portions of the Resurvey and Retracement of the South Boundary of T. 3 S R 1 W. of the Uintah Special 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.

Chas. T. Nye, *Chainman.*
Stephen Adams, *Chainman.*
[illegible], *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

Subscribed and sworn to before me this 7th day of December 1903

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Robert E. L. Collier, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July, 1903, 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 Resurvey and Retracement of South Boundary of T. 3 S R. 1 W.

of the Uintah Special 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.

Robert E. L. Collier
United States Deputy Surveyor.

Subscribed by said Robert E. L. Collier, and sworn to before me this 28th day of January 1904, 189

Edward H. Anderson
U.S. Surveyor General
Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the survey, retracement of the South Boundary of Township 3 South Range 1 West of the Uintah Special Base & Meridian Utah

executed by Robert E. L. Collier and Barney Rager under his contract No. 269, dated July 22 1903, 189, 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-306

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Treatment + Resurvey of Subdivision Lines

of

Township No 3 South Range 1 West

Of the Utah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rager, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 1903

Survey commenced Sept 25th, ~~189~~ 1903

Survey completed Sept 27th, ~~189~~ 1903

6—151

high 4,26.55

low 1-73.40

BOOK A-306

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

6—151

BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee

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~~ resurvey and of [illegible] of Subdivision lines of T. 3 S. R. 1 W. of the Mentah Special Base & Meridian Utah

A. B. Larson, Chainman.

[illegible], Chainman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McAtkinson
Notary Public

~~We~~ I, Robert Douglas ~~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~~ resurvey of [illegible] of Subdivision lines of T. 3 S. R. 1 W. of the Mentah Special Base & Meridian Utah

Robt Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McAtkinson
Notary Public

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, C. E. Whiteman, 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~~ resurvey and [illegible] of Subdivision lines of T. 3 S. R. 1 W. of the Mentah Special Base & Meridian Utah

C. E. Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. McAtkinson
Notary Public

Resurvey of Subdivisions of T. 35 S. R. 15 W.
Claire

Survey commenced Sept. 25 1903 and executed with a W and L. E. Gurley light mountain transit with solar attachment for a description of which see Notes of Retracement and Resurvey of Subdivisions of T. 25. R 16. in Book A
I examined the adjustments of the transit, which I found to be correct and as the declination of the sun was so small that the solar observations by p. m. and a. m. observations would not check with a meridian determined by observations on Polaris.
I begin at the cor. of secs. 25, 30, 31 and 36 on the Mintah Special Meridian which is the nearest firmly set cor. to the 1/16 sec cor. on the south half mile bet secs. 25 and 26 from which point a part of the subdivisions were to begin, This cor. I found to be marked 1/16 on W. face instead of 5 notches on N and 1 notch on S. as described by the Surveyor General, Latitude 40°11'34" N, Longitude 109°58' W.
At this cor., at 7h 11m p. m by my watch which is 4 m 00s slow of l. m. t. I observe Polaris at eastern elongation in accordance with instructions in the Manual and mark a point in the line thus determined by a nail driven in a wooden peg firmly set in the ground 5.00 Chs. N. of my station Sept 25, 1903
Sept. 26, 1903 At 7h 30m a. m. I lay off the azimuth of Polaris 0°35' to the West and mark the meridian thus determined by a flag set on a ridge 60.00 Chs N. of my station

Resurvey of Subdivisions of T. 3. S. R 1 W.

Chains	
	The magnetic bearing of the true meridian is N. 16° 15' W., which gives the magnetic declination 16° 15' E.
	From the corner of secs. 25, 30, 31 and 36 on the Uintah Special Meridian which is a sandstone 8 x 7 x 6 above ground marked 1/16 as heretofore described therefore to ascertain if this corner was not improperly marked I retrace North on a true line bet. secs. 25 and 30 using the flag set by Polaris observations as a foresight.
	Descend gently through shadscale and greasewood undergrowth.
14.00	Leave shadscale and greasewood undergrowth enter scattering cottonwoods and dense willow undergrowth
28.50	Right Bank of the Duchesne River course N. E.
30.00	Left Bank of the Duchesne River begin gradual ascent.
38.00	Leave scattering cottonwood timber and dense willow undergrowth N.E. and S.W.
40.00	Intersect the 1/4 sec. cor. which is a sandstone 6 x 9 x 7 ins. above ground marked and witnessed as described by the surveyor general
	As the course and distance of this line agrees with the notes of old survey and shows that the cor. of secs. 25, 30, 31 and 36 is not properly marked I return to the cor. of secs. 25, 30, 31 and 36 and mark the same with 5 notches on N and 1 notch on S. edges.
	Thence I run.
	West on a random resurvey line bet secs. 25 and 36 turning

Resurvey of Subdivisions of T. 35 S. R. 1 W.

Chains	
	an angle of 90° 00' to the left from the flag set by Polaris Observations
40.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs.
80.00	No trace of old cor. of secs 25, 26, 35 and 36 could be found therefore I continue West on a random resurvey line bet. secs. 26 and 35
40.00	No trace of old 1/4 cor. could be found
79.60	Fall 32 lks. S. of the cor of secs. 26, 27, 34 and 35 which is a cottonwood post 24 x 4 x 4 ins above ground marked but being badly decayed I destroyed same and set a cobble-rock 14 x 8 x 6 ins - 9 ins in the ground for re-established cor. of secs, 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches on E. edges from which: A. cottonwood 18 ins diam brs. N. 40° E 3.76 lks dist. marked T. 35 S. R 1 W. S. 26 B.T. No other trees available therefore I dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist.; and raised a mound of earth, 4 ft. base 2 ft high W. of cor. Thence I run S. 89° 53' E. on true line bet secs, 26 and 35. Over gradually descending ground through scattering cottonwoods and rabbit-brush
18.00	Leave rabbit-brush enter dense willow undergrowth N. W and S. E
27.00	Right Bank of the DuChesne River Course S. E.
28.70	Left Bank of the DuChesne River
37.50	Left Bank of the DuChesne River course N. E.
39.75	Right Bank of the DuChesne River

Resurvey of Subdivisions of T. 3 S. R. 1 W.

Chains

39.90 Set a cottonwood post, 3 ft long 4 ins square 24 ins in the ground, with marked stone for 1/4 sec. cor. marked 1/4. S. 26 on N. face 35 on S. face; dig pits 18 x 18 x 12 ins., E. and W. of post 3 ft dist.; and raise a mound of earth, 3 1/2 ft base 1 1/2 ft. high, N. of cor.

No suitable bearing trees within limits

79.80 Set a cottonwood post 3 ft long 4 ins square 24 ins in the ground for cor. of secs. 25, 26, 35 and 36 marked
T. 3 S. S. 25 on N. E.
R. 1 W. S 36 on S. E.
S. 35 on S. W. and
S. 26 on N. W. face with 1 notch on S. and E. edges from which
A cottonwood 16 ins diam., bears N. 10° E. 126 lks dist., marked T. 3 S. R. 1 W. S. 25 B. T.
A cottonwood 14 ins. diam., bears S. 25° E. 185 lks dist., marked T. 3 S. R. 1 W. S. 36 B. T.
A cottonwood 12 ins. diam., bears S. 5° W. 107 lks. dist., marked T. 3 S. R 1 W S. 35 B. T.
A cottonwood 14 ins diam. bears N. 50° W. 292 lks dist., marked T. 3 S. R 1 W S. 26 B. T.
Land, level
Soil, loam 1st rate
Timber; Scattering cottonwoods on 79.80 chs.
Rabbit-brush undergrowth on 18.00 chs.
Dense willow undergrowth on 61.80 chs.

S. 89° 53' E on a true line bet secs. 25 and 36
Through dense willow undergrowth and scattering cottonwood timber
27.80 Leave scattering cottonwood timber
31.20 Leave dense willow undergrowth bears N. E and S. W. enter shadscale undergrowth
39.90 Set a sandstone 21 x 10 x 6 ins 15 ins

Resurvey of Subdivisions of T. 2 S. R. 1 W.

Chains	
	in the ground, for 1/4 sec. cor. marked 1/4 on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raised a mound of earth 3½ ft base 1½ ft. high N. of cor.
42.80	Right Bank of the Duchesne River course S. E.
44.80	Left Bank of the Duchesne River
52.60	Left Bank of the Duchesne River course N. E.
54.40	Right Bank of the Duchesne River
56.55	Wire fence bears N. W and S. E.
61.65	Wire fence bears N. E and S. W.
62.80	Dry wash 10 lks. wide 4 ft. deep drains N. E.
66.05	Irrigation ditch 1 ft wide 6 ins deep drains N. E.
76.00	Dry wash 10 lks. wide 4 ft deep drains N. 30° E. ascend.
79.80	The cor. of secs. 25, 30, 31 and 36
31.20 / 48.60	Land, level Soil, sandy loam and clay 2nd rate Timber; scattering cottonwood on 27.80 chs. Dense willow undergrowth on 31.20 chs. Shadscale undergrowth on 48.60 chs.

Transposed

Sept 26 at the 1/16 Sec. cor. on the North half mile bet. secs 33 and 34, which is the nearest firmly set and properly marked cor. to the 1/16. cor. on the South half mile bet. secs. 27 and 28 at which corner part of the subdivisions of this township are to begin, Longitude 110°01' 39." W, Latitude. 40°11' N,

Resurvey of Subdivisions of T. 35 S. R. 1 W.

Chains

At this corner at $7^h 07^m$ p.m. by my watch which is $4^m 00^s$ slow of l. m. t., I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the point in the line thus determined by a stake driven in a wooden peg set in the ground, 5.00 chs. N. of my station

Sept 26 1903

Sept 27 at $7^h 00^m$ a. m. I lay off the azimuth of Polaris 1° 35' to the West and mark the Meridian thus determined by a flag set on a ~~ridge~~ about 40.00 chs South of my station. Thence I run North on resurvey line of the Northerly 1/4 mile of the line bet. secs. 33 and 34

I use the flag set 40.00 chs. S. of my station as a back sight.

Descend gently.

13.65 Dry wash 10 lks wide 3 ft deep drains N. E.

20.05 Fall 12 lks. W. of a sandstone 8 x 11 x 7 ins. above ground firmly set but no marks visible therefon I conclude that this is the cor. of secs. 27, 28, 33 and 34 as the notes of old survey and the description of cor. agree with my notes therefore I mark the stone with 1 notch on S. and 3 notches on E. edges; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.; and raised a mound of earth, 4 ft. base 2 ft. high, W. of cor.

Land, level

Soil, Clay 3rd rate

Resurvey of Subdivisions of T. 3 S. R. 1 W.

Chains	
	No timber.
	The course of this line is therefore N. 2° 21' E.
	North on resurvey line bet secs 27 and 28 using the flag set on the Meridian bet. secs 33 and 34 as a back sight.
0.10	Road from DuChesne Bridge to Fort Du Chesne bears E. and W.
2.95	Dry Wash 15 lks wide 6 ins deep drains E.
6.65	Right Bank of the DuChesne River course S. 80° E.
8.00	Left Bank of the DuChesne River Enter Dense undergrowth and scattering cottonwood timber
20.00	Set a sandstone 18 X 12 X 5 ins. 12 ins. in the ground for 1/16 sec. cor. marked 1/16 on W. face; dig pits 18 X 18 X 12 ins N. and S. of stone 3 ft. dist.; and raised a mound of earth 3½ ft base 1½ ft. high W. of cor. as no signs of the old 1/16 cor could be found in the radius of 5 chs.
	Land, level
	Soil, sandy loam and rocky crust bottom 2nd and 4th rate
	Dense undergrowth on 12.00 chs.
	Timber, scattering cottonwoods on 12. chs.
	From the re-established cor. of secs. 25, 26, 35 and 36 I run North on a resurvey line bet secs. 25 and 26 Through dense willow undergrowth and scattering cottonwood.
	Descend gently
20.00	No trace of old cor. could be

Resurvey of Subdivisions of T. 3 S. R. 1 W.

Chains

found in the radius of 5 chs.
therefore I set,
a cottonwood post 3 ft. long, 4 ins.
square 24 ins. in the ground
for 1/16 sec. cor. marked 16 S. 26 on
W. face and 25 on E. face; from which
a cottonwood 14 ins. diam. bears N. 20° E.
2.96 chs dist. marked 1/16 S. 25 B. T.
a cottonwood 14 ins diam. bears N. 60° W.
2.39 chs dist. marked 1/16 S. 26 B. T.
Land, level
Soil, Rocky and stony 3rd and 4th rates
Dense willow undergrowth on 20.00 chs.
Timber, scattering cottonwoods
on 20.00 chs.

To ascertain if the cor. of secs. 1, 2, 35 and
36 as resestablished in the Resurvey
of S Bdy. of T. 3 S. R 1 W, and described in notes of Book "F"
on the South
Bdy of this township is in the proper
place I begin at the resestablished
cor. of secs. 1, 2, 35 and 36 as described in
notes of Resurvey of S Bdy. T. 3 S. R 1 W in Book "F" Thence I run
N. 0° 1' W. on a random line bet secs. 35 and 36
20.00 No trace of old 1/16 cor. could be found
Set temp. 1/16 cor.
40.00 No trace of old 1/4 sec. cor. could be found
60.00 No trace of old 1/16 cor. could be found
80.40 Intersect the resestablished cor. of secs.
25, 26, 35 and 36 heretofore described
Thence I run
S. 0° 1' E. on a true resurvey line
bet. secs. 35 and 36
Over gradually ascending land through
dense willow undergrowth and scattering
cottonwood timber
19.00 Leave dense willow undergrowth and

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	scattering cottonwood timber E. and W. enter greasewood and shadscale undergrowth
20.12	Set a sandstone 16 x 8 x 6 ins, 11 ins. in the ground for 1/4 sec. cor, marked 1/4 on W. face dig pits 18 x 18 x 12 ins, N. and S. of stone 3 ft. dist, and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor,
24.65	Wire fence bears N. W. and S. E.
26.40	Wagon road, Fort DuChesne to DuChesne Bridge bears N. W. and S. E.
40.40	Set a cobblestone 15 x 7 x 6 ins, 10 ins. in the ground for 1/4 sec. cor, marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S, of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor,
45.70	Dry wash 25 ft. wide 3 ft. deep drains N. E.
48.50	Leave greasewood bears E. and W.
60.30	Set a sandstone 16 x 10 x 8 ins, 11 ins in the ground for 1/16 sec. cor. marked 1/16 on W. face; dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor,
63.50	Foot of spur bears E. and W. begin more abrupt ascent,
66.00	Top of spur projects W. 75 ft. above foot, descend
68.50	Bottom of ravine drains W. 40 ft. below top of ridge ascend
72.50	Top of spur projects W. 40 ft. above bottom of ravine descend
75.25	Bottom of ravine drains W. 30 ft. below top of spur, ascend
79.00	Top of spur projects E. 20 ft. above bottom of ravine
80.40	The cor. of secs. 1, 2, 35 and 36
	Land, mountainous
	Soil, sandy and clay 4th rate
	Greasewood and shadscale undergrowth on 29.50 chs. shadscale undergrowth on 61.40 chs.

Resurvey of Subdivisions of T. 3 S. R. 1 W.

Dense willow undergrowth on 19.00 chs.
Scattering cottonwood
timber on 19.00 chs.
Mountainous land on 80.40 chs.

To ascertain if the cor. of secs. 2, 3, 34 and 35 on the South Bdy of this township is in the proper place as re-established by me and described in the Notes of S. Bdy. of T. 4 S. R. 1 W. in Book "F."
I begin at the re-established cor of secs. 2, 3, 34 and 35
Thence I run
N. 0° 2' W. on a random line bet. secs. 34 and 35
20.00 No trace of old 1/16 sec. cor. could be found. Set temp 1/16 sec. cor.
40.00 No trace of old 1/4 sec. cor. could be found Set temp 1/4 sec. cor.
60.00 Intersect a sandstone 16 x 10 x 3 ins. above ground but no marks visible and no bearing trees the same as described in the note of old survey
79.90 Intersect the cor. of secs. 26, 27, 34 and 35 which was re-established by me
Thence I run
S. 0° 2' E. on a true line bet. secs. 34 and 35
ascend gently through greasewood undergrowth and scattering cotton wood timber
16.10 Pass scattering cottonwood timber bears E. and W.
19.90 Intersect the sandstone 16 x 10 x 3 above ground which I mark 1/16 on W. face for re-established 1/16 sec. cor. from which a cottonwood 5 ins. diam bears N. 70° E. 3.80 chs. dist, marked 1/16 S. 35 B.T.
No other tree available therefore I dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high

Resurvey of Subdivisions of T. 3 S. R. 1 W.

Chains	
	W. of cor.
20.10	Wagon Road Fort DuChesne to DuChesne Bridge bears East and West.
39.95	Set a cobble-rock 14 x 9 x 8 ins. 9 ins. in the ground for reestablished 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable
40.50	Begin more abrupt ascent bears E. and W.
59.92	As no trace of old 1/16 cor. could be found in the radius of 5 chs. I set a cobble-rock 18 x 8 x 6 ins. 12 ins. in the ground for 1/16 sec. cor. marked 1/16 on W. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable.
63.50	Top of ridge bears N. E. and S. W. 200 ft. above beginning of more abrupt ascent descend along E. slope of ridge
76.50	Bottom of descent bears N. E. and S. W. 150 ft below top of ridge, begin gentle ascent over rough sandstone ledges and boulders
79.90	The cor. of secs. 2, 3, 34 and 35
	Land, mountainous
	Soil, rocky and stony 4th rate
	Greasewood and rabbit brush undergrowth on 79.90 chs.
	Scattering cottonwood timber on 16.00 chs.
	Mountainous land on 79.90 chs.
	To ascertain if the cor. of secs. 3, 4, 33 and 34 on the S. bdy of this tp is in the proper place as reestablished by us and described in the notes of S. Bdy of T. 3 S. R. 1 W. in Book "F" I run N. 0° 2' W. from the cor. of secs. 3, 4, 33 and 34 on a random line bet secs. 33 and 34
41.25	Full 14 lks W. of the 1/4 sec. cor. which is a sandstone 8 x 9 x 7 ins. above ground marked

Resurvey of Subdivisions of T. 35 S. R 1 W.

Chain

and witnessed as described by the surveyor general.

Thence I run

S. 0° 10' W. on a true line bet secs. 33 and 34

ascend gradually through shadscale undergrowth

6.75 Dry wash drain E.

9.25 Begin abrupt ascent bears E. and W.

16.55 Top of clay spur projects E. 50 ft. above beginning of abrupt ascent, descend

19.25 Bottom of ravine drain N. E. 30 ft. below top of spur, ascend abruptly.

24.25 Top of steep ascent bears E. and W. 100 ft. above bottom of ravine thence along top of rolling flat.

41.25 The cor. of secs. 3, 4, 33 and 34

Land, mountainous

soil, rocky and stony 4th rate

No Timber; Shadscale undergrowth on 41.25 chs.

mountainous land on 41.25 chs.

Knowing that the 1/16 sec. cor. on the South half mile bet secs. 26 and 27 could not be found I begin at the cor. of secs. 26, 27, 35 and 34 —

Thence I run

N. 0° 1' E. on a true line bet secs. 26 and 27

Through dense willow undergrowth and scattering cottonwoods

4.00 Right Bank of the Dulhane River course East

6.25 Left Bank of the Dulhane River

20.00 No trace of old 1/16 sec. cor. could be found in the radius of 5 chs.

Set a cottonwood post 4 ins square 3 ft long 24 ins. in the ground for 1/16 sec. cor. marked 1/16 S. 27. on W. face and 26. on E. face; from which a cottonwood 12 ins. diam. bears N. 62° 00' E.

Resurvey of Subdivisions of T. 3 S. R 1 W.

Chain

.15 lks. dist marked 1/16 S. 26 B.T.
A cottonwood 9 ins. diam bears S. 81° W. 97 lks.
dist. marked 1/16 S 27 B.T.
Land, level
Soil, sandy loam 2nd rate
Undergrowth, Dense willows on 20,00 chs.
Timber, scattering cottonwoods on 20,00 chs.

From the 1/4 sec. cor. bet secs. 33 and 34
which is a sandstone 6 x 9 x 7 ins. above
ground heretofore described in this book,
run
North on a retracement line bet. secs 33 and 34
18,75 Fall 10 lks. W. of the 1/16 sec. cor, which
is a sandstone 8 x 18 x 5 ins. above ground
marked and witnessed as described by
the surveyor general
The course of this line is therefore
N. 0° 18' E. and is 18,75 chs. in length.
Sept. 27 1903

For General Description See Notes of
Subdivisions of T. 3 S R 1 W

Harry Ragan
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ resurvey and retracement of Subdivision lines of T. 3 S. R. 1 W. of the Uintah Special Base & Meridian, Utah, showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in ~~surveying~~ resurveying and retracing all those parts or portions of the Subdivision Lines of T. 3 S. R. 1 W. of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been resurveyed by him and under his direction; and that said resurvey 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.

A. B. Larson, *Chainman.*
Ed. Edward McKee, *Chainman.*
Robt. Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Chas. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, ~~189~~ 1903

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, 189, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~surveyed~~ resurveyed and retracing all those parts or portions of Subdivision Lines of T. 35, R. 1 W.

of the Uintah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January 1904, 189

Edward H. Anderson
U. S. Surveyor-General
for Utah.

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR-GENERAL,

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the survey of the subdivisional lines of Township 3 South Range 1 West of the Uintah Special Base & Meridian, Utah

executed by Robert E. Collier and Harry Rager under his contract No. 269, dated July 22 1903, 189, 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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L.H.

BOOK A-306

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Resurvey and Retracement of Subdivision Lines

of

Township No 3 South Range No 1 West

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, ~~189~~ 1903

~~Survey~~ Retracement commenced Sept 26, ~~189~~ 1903

Survey completed Sept 28, ~~189~~ 1903

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Retracement Corner 11. 47. 84

" " 1 ext 3 0271

NAMES AND DUTIES OF ASSISTANTS.

Chas. T. Nye	Chainman
Stephen Adams	Chainman
Albert Pace	Roundsman
Leon Smith	Flagman

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Volume
#
R0306

BOOK A-306

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Chas. T. Nye and Stephen Adams 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~~ Resurvey and Retracement of Subdivisions of T. 35 S. R 1 W. of the Uintah Special Base and Meridian, state of Utah

Chas. T. Nye, Chainman.

Stephen Adams, Chainman.

Subscribed and sworn to before me this 22nd day of September, ~~189~~ 1903

SEAL

Harry Rager
U. S. Deputy Surveyor

~~WE~~ I, Albert Pace ~~and~~ do solemnly swear that ~~we~~ I 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 of~~ Resurvey and Retracement of Subdivisions of T. 35 S R 1 W. of the Uintah Special Base and Meridian, State of Utah

Albert Pace, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of September, ~~189~~ 1903

SEAL

Harry Rager
U. S. Deputy Surveyor

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, Leon Smith, 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~~ Retracement and Resurvey of Subdivisions of T. 35 S R 1 W. of the Uintah Special Base and Meridian in the State of Utah

Leon Smith, Flagman.

Subscribed and sworn to before me this 22nd day of September, ~~189~~ 1903

SEAL

Harry Rager
U. S. Deputy Surveyor

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Resurvey and Retracement of Subdivisions of T. 3 S. R 1 W.

Chains	
	Survey commenced Sept. 26 1903 and executed with a Buff and Buff light mountain transit (not numbered) the horizontal limb being provided with two opposite verniers reading to single minutes of arc;
	at the re-established cor. of secs. 26, 27, 34 and 35 heretofore described in book "G" of Resurveys of Subdivisions of T. 3 S. R 1 W. in latitude 40° 12' N. longitude 109° 59' 23" W. at 7h 09m p.m. by my watch which is 2m 00s slow of l. m. t. I observe Polaris at Eastern elongation in accordance with manual of Instructions and mark the line thus determined, by a tack driven in a wooden peg set in the ground 5 chs. N. of my station
	Sept. 27-1903 at 7h 00m a.m. I turn off the azimuth of Polaris 1° 35' to the West, and mark the meridian thus determined by cutting a mark on a stone firmly set in the ground west of the mark established last night. the magnetic bearing of said true meridian is N. 16° 25' W. the angle thus determined gives the mag. decl. 16° 25' E.
	From this cor. I turn off an angle of 90° 00' from North to West from the true meridian and run
	West on a retracement line bet secs. 27 and 34
19.80	Fall 4 lks. S. of the 1/16 sec. cor. which is a cottonwood post 18 X 3 X 3 ins. above ground marked and witnessed as described by the surveyor general
27.00	Dry wash drains N. E.
39.52	Fall 7 lks. S. of the 1/4 sec. cor. which is a cottonwood post 18 X 3 X 3 ins. above ground marked and witnessed as described by the surveyor general
58.00	Wagon Road Duchesne Bridge to Fort Duchesne bears N. 80° W. and S. 60° E.

Resurvey and Retracement of Subdivisions of T. 35 R 1 W

Chains	
59.30	Fall 10 lks. S. of the 1/4 sec. cor. which is a sandstone 5X10X10 ins. above ground marked and witnessed as described by the surveyor general
75.00	Dry wash drains N.E.
79.46	Fall 83 lks. S. of the cor. of secs. 27, 28, 33 and 34 which is a sandstone 8X11X7 ins. above ground heretofore described in Notes of Retracement and Resurvey of Subdivisions of T. 35 R 1 W in book "G"
	The course of this line from the cor. of secs. 26, 27, 34 and 35 to the 1/16 sec. cor. is N. 89° 54' W. 59.30 chs. and from the 1/16 sec. cor. to the cor. of secs. 27, 28, 33 and 34 is N. 87° 56' W. 20.16 chs. dist.
	From the cor. of secs. 4, 5, 32 and 33 on the S. Bdy of this township which is a sandstone 12X15X4 ins. above ground marked and witnessed as described by the surveyor general I run North on a retracement line bet. secs. 32 and 33
20.05	Fall 6 lks. W. of the 1/16 sec. cor. which is a sandstone 7X11X6 ins above ground marked and witnessed as described by the surveyor general
40.07	Fall 12 lks. W. of the 1/4 sec. cor. which is a sandstone 6X8X6 ins. above ground marked and witnessed as described by the surveyor general
60.12	Fall 18 lks. W. of the 1/16 sec. cor. which is a sandstone 7X14X5 ins. above ground marked and witnessed as described by the surveyor general
80.15	Fall 23 lks. W. of the cor. of secs. 28, 29, 32 and 33 which is a sandstone 7X10X3 ins. above ground marked and witnessed as described by the surveyor general.
	The course of this line is therefore N. 0° 10' E and is 80.15 chs. in length.

Resurvey and Retracement of Subdivisions of T. 35 S. R. 1 W.

Chains	
	From the cor. of secs. 27, 28, 33 and 34 heretofore described in this book I run
	West on a retracement line bet. secs. 28 and 33
19.96	Fall 12 lks. S. of the 1/16 sec. cor. which is a sandstone 4 x 10 x 9 ins. above ground marked and witnessed as described by the surveyor general
39.92	Fall 23 lks. S. of the 1/4 sec. cor. which is a sandstone 5 x 9 x 7 ins. above ground marked and witnessed as described by the surveyor general
59.89	Fall 35 lks. S. of the 1/16 sec. cor. which is a sandstone 7 x 6 x 5 ins. above ground marked and witnessed as described by the surveyor general
79.85	Fall 47 lks. S. of the cor. of secs. 28, 29, 32 and 33 heretofore described in this book.
	The course of this line is therefore N. 89° 40' W. and is 79.85 chs. in length.
	From the cor. of secs. 28, 29, 32 and 33 heretofore described in this book I run
	North on a retracement line bet. secs. 28 and 29
20.00	Fall 12 lks. W. of the 1/16 sec. cor. which is a sandstone 5 x 6 x 6 ins. above ground marked and witnessed as described by the surveyor general.
40.00	Fall 23 lks. W. of the 1/4 sec. cor. which is a sandstone 5 x 6 x 3 ins. above ground marked and witnessed as described by the surveyor general
62.00	Fall 37 lks. W. of the Witness 1/16 sec. cor. which is a cottonwood post 18 x 3 x 3 ins. above ground marked and witnessed as described by the surveyor general

Resurvey and Retracement of Subdivision of T. 3

Chains	
80.00	Face 47 lks. W. of the cor. of secs. 20, 21, 28 and 29 which is a sandstone 6 x 6 x 4 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefore N. 0° 20' E. and is 80.00 chs. in length.
	From the cor. of secs. 20, 21, 28 and 29 heretofore described in this book I run North on a retracement line bet. secs. 20 and 21.
20.09	Intersect the 1/16 sec. cor. which is a sandstone 7 x 6 x 5 ins. above ground marked and witnessed as described by the surveyor general.
40.18	Intersect the 1/4 sec. cor. which is a sandstone 7 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general.
60.27	Face 1 link E. of the 1/16 sec. cor. which is a sandstone 5 x 7 x 6 ins. above ground marked and witnessed as described by the surveyor general.
80.36	Intersect the cor. of secs. 16, 17, 20 and 21 which is a sandstone 6 x 10 x 5 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefore North and is 80.36 chs. in length.
	From the cor. of secs. 15, 16, 21 and 22 which is a sandstone 7 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general

Resurvey and Retracement of Subdivisions of T. 3 S. R. 1 W.

Chains	
	I run
	West on a retracement line bet. secs. 16 and 21
19.88	Fall 3 lks. N. of the 1/16 sec. cor. which is a sandstone 5 x 12 x 7 ins. above ground marked and witnessed as described by the surveyor general.
39.76	Fall 6 lks. N. of the 1/4 sec. cor. which is a sandstone 6 x 10 x 5 ins. above ground marked and witnessed as described by the surveyor general
59.65	Fall 9 lks. N. of the 1/16 sec. cor. which is a sandstone 6 x 7 x 7 ins. above ground marked and witnessed as described by the surveyor general.
79.53	Fall 12 lks. N. of the cor. of secs. 16, 17, 20 and 21 heretofore described in this book of notes.
	The course of this line is therefore S. 89° 55' W. and is 79.53 chs. in length.
	Sept. 27, 1903
	Note - Sky was overcast the entire night - Polaris not visible
	From the cor. of secs. 5, 6, 31 and 32 on the South Bdy. of this township which is a sandstone 8 x 10 x 4 ins. above ground marked and witnessed as described by the surveyor general I run
	North on a retracement line bet. secs. 31 and 32
19.88	Fall 9 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 10 x 4 ins. above ground marked and witnessed as described by the surveyor general
39.76	Fall 17 lks. E. of the 1/4 sec. cor. which is a sandstone 10 x 14 x 4 ins. above ground marked and witnessed as described by the surveyor general.
59.64	Fall 26 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general

Resurvey and Retracement of Subdivisions of T. 35 S.

Chains	
79.52	Fall 35 lks. E. of the cor. of secs. 29, 30, 31 and 32 which is a sandstone 6 x 8 x 8 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefore N. 0° 15' W. and is 79.52 chs. in length.
	From the cor. of secs. 28, 29, 32 and 33 heretofore described in the Book of Notes I run West on a retracement line bet. secs. 29 and 32
19.89	Fall 6 lks. S. of the 1/16 sec. cor. which is a sandstone 5 x 12 x 6 ins. above ground marked and witnessed as described by the surveyor general.
39.78	Fall 12 lks. S. of the 1/4 sec. cor. which is a sandstone 4 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general
59.66	Fall 18 lks. S of the 1/16 sec. cor. which is a sandstone 7 x 16 x 5 ins. above ground marked and witnessed as described by the surveyor general
79.55	Fall 23 lks. S of the cor. of secs. 29, 30, 31 and 32 heretofore described in this book of notes. The course of this line is therefore N. 89° 50' W. and is 79.55 chs. in length.
	From the cor. of secs. 29, 30, 31 and 32 heretofore described in this book of notes I run North on a retracement line bet. secs. 29 and 30
19.88	Fall 3 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 10 x 4 ins. above ground marked and witnessed as described

Chains	
	by the surveyor general
39.76	Face 6 lks. E. of the 1/4 sec. cor. which is a sandstone 7 x 17 x 15 ins. above ground marked and witnessed as described by the surveyor general
59.64	Face 8 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 10 x 9 ins. above ground marked and witnessed as described by the surveyor general
	The course of this line is therefore N. 0° 5' W. and is 59.64 chs. in length,
	From the cor. of secs. 20, 21, 28 and 29 heretofore described in this book of notes I run
	West on a retracement line bet. secs. 20 and 29
20.16	Fall 4 lks. S. of the 1/16 sec. cor. which is a sandstone 8 x 6 x 6 ins. above ground marked and witnessed as described by the surveyor general
40.32	Fall 8 lks. S. of the 1/4 sec. cor. which is a sandstone 6 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general
	The course of this line is therefore N. 89° 55' W. and is 40.32 chs. in length
	From the cor. of secs. 29, 30, 31 and 32 heretofore described in this book of notes I run
	West on a retracement line bet. secs. 30 and 31
19.72	Face 15 lks. S. of the 1/16 sec. cor. which is a sandstone 4 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general

Resurvey and Retracement of Subdivisions of T. 3 S. R 1 W.

Chains	
39.43	Fall 30 lks. S. of the 1/4 sec. cor. which is a sandstone 7 x 14 x 4 ins. above ground marked and witnessed as described by the surveyor general
59.14	Fall 45 lks. S. of the 1/16 sec. cor. which is a sandstone 7 x 14 x 10 ins. above ground marked and witnessed as described by the surveyor general
78.85	Fall 60 lks. S. of the cor. of secs. 25, 30, 31 and 36 which is a sandstone 7 x 12 x 4 ins above ground marked and witnessed as described by the surveyor general The course of this line is therefore N. 89° 34' W. and is 78.85 chs. in length.
	From the cor. of secs. 19, 24, 25 and 30 on the West Bdy. of this township which is a sandstone 6 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general I run East on a retracement line bet. secs. 19 and 30
19.50	Intersect the 1/16 sec. cor. which is a sandstone 3 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general
30.81	Intersect the Meander Cor. which is a sandstone 5 x 8 x 3 ins. above ground marked and witnessed as described by the surveyor general The course of this line is therefore East and is 30.81 chs. in length.
	From the cor. of secs. 17, 18, 19 and 20 which is a sandstone 6 x 6 x 5 ins. above ground marked and witnessed as

Resurvey and Retracement of Subdivisions of T. 35 S. R. 1 W.

Chain

described by the surveyor general
I run
West on a true line bet. secs. 18 and 19
20.00 Pass 17 lks. S. of the 1/16 sec. cor. which is a sandstone 6 x 8 x 5 ins. above ground marked and witnessed as described by the surveyor general
40.00 Pass 35 lks. S. of the 1/4 sec. cor. which is a sandstone 6 x 9 x 5 ins. above ground marked and witnessed as described by the surveyor general
60.00 Pass 52 lks. S. of the 1/16 sec. cor. which is a sandstone 5 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general
79.80 Pass 70 lks. S. of the cor. of secs. 13, 18, 19 and 24 which is a sandstone 6 x 13 x 3 ins. above ground marked and witnessed as described by the surveyor general
The course of this line is therefore N. 89° 30' W. and is 79.80 chs. in length.

From the cor. of tps. 3 and 4 S. Rs 1 and 2 W. which is a sandstone 18 x 12 x 4 ins. above ground in a mound of stone marked and witnessed as described by the surveyor general I run
North on a retracement line bet. secs. 31 and 36
20.37 Intersect the 1/16 sec. cor. which is a sandstone 7 x 10 x 5 ins. above ground marked and witnessed as described by the surveyor general
40.74 Intersect the 1/4 sec. cor. which is a sandstone 6 x 8 x 5 ins. above ground marked and witnessed as described by the surveyor general
61.11 Intersect the 1/16 sec. cor. which is a sandstone 5 x 8 x 6 ins. above ground

Resurvey and Retracement of Subdivisions of T. 35 S.

Chains	
	marked and witnessed as described by the surveyor general
81.49	Intersect the cor. of secs. 25, 30, 31 and 36 which is a sandstone 7 x 12 x 4 ins above ground heretofore described in this book of notes. The course of this line is therefore North and is 81.49 chs. in length.
	From the cor. of secs. 13, 18, 19 and 24 on the W. Bdy of this township heretofore described I run North on a retracement line bet. secs. 13 and 18
20.20	Intersect the 1/16 sec. cor. which is a sandstone 4 x 12 x 6 ins. above ground marked and witnessed as described by the surveyor general
40.40	Intersect the 1/4 sec. cor. which is a sandstone 7 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general
60.60	Intersect the 1/16 sec. cor. which is a sandstone 6 x 12 x 6 ins. above ground marked and witnessed as described by the surveyor general
80.80	Intersect the cor. of secs. 7, 12, 13 and 18 which is a sandstone 5 x 9 x 5 ins. above ground marked and witnessed as described by the surveyor general The course of this line is therefore North and is 80.80 chs. in length.
	From the cor. of secs. 19, 24, 25 and 30 heretofore described in this book of Notes, on the W. Bdy of this tp. I run North on a retracement line bet. secs. 19 and 24
11.10	Fall 7 lks. E. of the Meander Cor. which is a sandstone 5 x 10 x 8 ins

Resurvey and Retracement of Subdivisions of T. 3 S. R 1 W.

Chains.	
	above ground marked and witnessed as described by the surveyor general
20.10	Fall 12 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 12 x 7 ins. above ground marked and witnessed as described by the surveyor general
40.21	Fall 23 lks. E. of the 1/4 sec. cor. which is a sandstone 5 x 8 x 7 ins. above ground marked and witnessed as described by the surveyor general
60.31	Fall 35 lks. E. of the 1/16 sec. cor. which is a sandstone 6 x 12 x 3 ins. above ground marked and witnessed as described by the surveyor general
80.42	Fall 47 lks. E. of the cor. of secs. 13, 18, 19 and 24 heretofore described in this book of Notes
	The course of this line is therefore N. 0° 20' W. and is 80.42 chs. in length

Sept. 28 1903

For General Description See Notes of Subdivisions of T. 3 S. R 1 W. in Book "I"

Robert E. L. Collier
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 Robert E. L. Collis, 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~~ Resurvey and Retracement of Subdivisions of T. 3 S R 1 W. of the Uintah Special Base and meridian in the State of Utah showing the respective capacities in which they acted:

Chas. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Robert E. L. Collis, United States Deputy Surveyor, in surveying all those parts or portions of the Resurvey and Retracement of Subdivisions of T. 3 S R 1 W, of the Uintah Special 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

Chas. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

Subscribed and sworn to before me this 7th day of December, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Robert E. L. Collins, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, 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 Resurvey and Retracement of Subdivisions of T. 3 S R 1 W

of the Uintah Special 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.

Robert E. L. Collins
United States Deputy Surveyor.

Subscribed by said Robert E. L. Collins, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1904, 189

The foregoing field notes of the survey of retracement of the subdivisional lines of Township 3 South Range 1 West of the Uintah Special Base & Meridian, Utah

executed by Robert E. L. Collins and Harry Page under his contract No. 269, dated July 22, 1903, 189 , 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 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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I

BOOK A-306

FILED

JAN 28 1904

L.H.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 3 South, Range No. 1 West

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robt E. L. Collier and Harry Rager, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 269, dated July 23, 1903 ~~189~~

Survey commenced Sept. 27, 1903 ~~189~~

Survey completed Oct. 3, 1903 ~~189~~

C—151

Length 17.21.97

Error 10.40

Closing .73

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whitman	Flagman

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Volume
#
R0306

BOOK A-306

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30	29	28 25	27 21	26 17	25
31	32	33	34	35	36

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee

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 Subdivision lines of T. 3 S. R. 1 W. of the Uintah Special Base & Meridian Utah

A B Larson, *Chainman.*

Edward McKee, *Chainman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry P. Atkinson
Notary Public

~~WE,~~ I Robert Douglas ~~and~~

do solemnly swear that ~~we~~ I 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 of Subdivision lines of T. 3 S. R. 1 W. of the Uintah Special Base & Meridian Utah

Robt Douglas, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry P. Atkinson
Notary Public

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, E. Whitman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision lines of T. 3 S. R. 1 W. of the Uintah Special Base & Meridian Utah.

E H Whitman, *Flagman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry P. Atkinson
Notary Public

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Subdivisions of T. 3 S R. 1 W.

Chains

Survey commenced Sept. 27, 1903 and executed with a W. and L. E. Gurley light mountain transit, not numbered, with solar attachment, for a description of which see Notes of Resurvey and Retracements of Subdivisions of T. 2 S. R. 16, in Book "A"
I examine the adjustments of the transit, and correct the level and collimation errors and as the declination of the sun was so small that the solar observations by p. m. and a. m. observations would not check with a meridian determined by observations on Polaris, I begin at the corner of secs. 7, 8 17 and 18 which is a sandstone 7 X 11 X 6 ins. above ground marked and witnessed as described by the surveyor general. Latitude 40° 14' N, Longitude 110° 04' W.
at this corner, at $7^h 03^m$ p. m. by my watch which is $4^m 00^s$ slow of local mean time, I observe Polaris at eastern elongation in accordance with instructions in the manual and mark a point in the line thus determined by a tack driven in a wooden peg set in the ground 5.00 Chs. N. of my station

Sept. 28 at $7^h 00^m$ a. m., I lay off the azimuth of Polaris 1° 35' to the west, and mark the meridian thus determined by a flag set on a ridge about 30.00 Chs North of my station
The magnetic bearing of the true meridian is N. 16° 15' W., which gives

Subdivisions of T. 25. R. 1 W.

Chains	
	the magnetic declination 16°15' E.
	From the Cor. of secs 7, 8, 17 and 18
	I run
	East on a random line bet secs 8 and 17
	turning an angle of 90°00' to the
	East from the flag set on the
	meridian about 30.00 chs North
40.00	Set temp. 1/4 sec. cor
80.06	I intersect the N. and S. line 10 lks
	N. of the cor. of secs. 8, 9, 16 and 17
	which is a sandstone 6 x 12 x 8 ins.
	above ground marked and witnessed
	as described by the surveyor general
	Thence I run
	N. 89°56' W on a true line bet secs 8 and 17
	Over ascending land through
	shadscale undergrowth
16.30	Dry wash 15 lks wide 1 ft deep drains
	S. E.
27.20	Dry wash 10 lks wide 2 ft. deep drains
	S. E.
40.03	Set a sandstone 20 x 14 x 5 ins 15 ins in
	the ground, for 1/4 sec. cor. marked
	1/4 on N. face; dig pits 18 x 18 x 12 ins.,
	E. and W. of cor. 3 ft. dist.; and raised
	a mound of earth, 3½ ft base 1½ ft
	high, N. of cor.
51.50	Horse trail bears N. 30° W. and S. 30° E.
78.80	Dry wash 10 lks. wide 5 ft deep
	drains S. E.
80.06	The cor. of secs. 7, 8, 17 and 18
	Land, mountainous
	Soil, Sandy 4th rate
	No Timber. Shadscale undergrowth
	on 80.06 chs.
	Mountainous land on 80.06 chs.
	West. on a random line bet secs 7 and 18

Subdivisions of T. 3 S. R. 1 W

Chains	
	I turn an angle of 90°00' to the West from the flag set on the meridian about 30.00 chs North of this cor.
40.00	Set temp. 1/4 sec. cor.
79.87	Intersect the West bdy of the township 1.60 lks. S. of the cor of secs. 7, 12, 13 and 18 which is a sandstone 6x9x5 ins above ground marked and witnessed as described by the surveyor general.
	As this falling exceeds the limits prescribed in the manual at my point of intersection I set a cobblerock 14x8x6 ins 10 ins. in the ground for cor. of secs. 7 and 18 marked C.C. on E.; with 2 grooves on N and 4 grooves on S. faces; dig pits, 24x18x12 ins. crosswise on each line N. and S. 3 ft. and E. of stone, 7 ft. dist.; and raised a mound of earth, 4 ft base, 2 ft. high. E. of cor. I destroy all marks pertaining to secs. 7 and 18 on the old cor. Thence I run East on a true line bet. secs. 7 and 18
3.60	Horse trail bears N. 30° W and S. 30° E.
4.65	Dry wash 10 lks. wide 5 ft. deep drains S.
12.70	Dry wash 15 lks wide 10 ft. deep drains S.
25.90	Begin steep ascent bears N.W. and S.
35.65	Top of ridge spur projects S. 125 ft. above beginning of steep ascent, begin abrupt descent
38.90	Bottom of steep descent 125 ft below top. thence gentle descent
39.87	Set a sandstone 21x10x4 ins. 16 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.

Subdivisions of T. 35 S. R 1 W.

Chains	
	high N. of cor. Pits impracticable
70.90	Road to white Rocks bears N. and S.
79.87	The cor of secs. 7, 8, 17 and 18
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 79.87 Chs.
	Sept. 28, 1903
	Sept. 28 at the cor. of secs. 15, 16, 21 and 22 which is a sandstone 9x7x5 ins. above ground marked and witnessed as described by the surveyor general Latitude 40°13' N. Longitude 110°01'38.5" W. at 6h 59m p. m. by my watch which is 4m 00s slow of local mean time, I observe Polaris at eastern elongation in accordance with instructions in the Manual, and mark the point in the line thus determined by a tack driven in a wooden peg set in the ground 5 Chs. N. of my station
	Sept 29, at 7h 00m a. m. I lay off the azimuth of Polaris 1°35' to the west, and mark the meridian thus determined by a flag set about 40.00 Chs. South of my station. Thence I run South on a true line bet secs. 21 and 22
	Ascend gently.
7.50	Begin steep descent, bears N. W and S. E.
13.90	Dry wash drains W. 75 ft below beginning of steep descent, begin gentle ascent
34.00	Begin abrupt ascent, trav E. and W.

[illegible] of 1350 [illegible]

[illegible] Top of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

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[illegible] Bottom of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] side of [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] sandy and clay [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

From the [illegible] of [illegible] 20, 21 and 35 [illegible] [illegible] [illegible] 21 and 35 [illegible] [illegible] of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] by [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] of the [illegible] of [illegible] 20, 21, 35 and 36 [illegible] [illegible] [illegible] [illegible] ground [illegible] and [illegible] [illegible] by the [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] at the [illegible] of [illegible] 20, 21, 35 and 36 [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] 35 and 36

Subdivisions of T. 3 S. R. 1 W.

Chains	
	Ascend gently through greasewood and sage-brush
36.40	Begin more abrupt ascent N.E and S.W.
39.38	Set a cobble-stone 18 x 10 x 6 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
43.38	Top of small ridge bears N.W. and S.E. 50 ft above beginning of more abrupt ascent. descend
53.38	Bottom of gulch drains S.W. 50 ft. below top of ridge. ascend
66.88	Top of ridge bears N. and S. 50 ft. above bottom of gulch begin steep descent.
71.88	Foot of ridge 60 ft below top begin more gentle descent
76.88	Gulch drains S. ascend
79.38	Intersect N. and S. line bet. secs. 21 and 22, 38.00 52 Chs. S. of the cor. of sets. 15, 16, 21 and 22. At my point of Intersection I set a sandstone 18 x 8 x 8 ins. 12 ins. in the ground for cor. of secs. 21, 22, 27 and 28 marked with 2 notches on S. and 3 notches on E. edge; and raised a mound of stone 2 ft. base 1½ ft. high. W. of cor. Pits impracticable Land, mountainous Soil, clay 4th rate No Timber; Greasewood and sagebrush undergrowth on 79.38 Chs. Mountainous land on 79.38 Chs.
	Sept. 29 To test the solar apparatus, by comparing its indications, resulting

Subdivisions of T. 35 S. R. 1 W.

Chains

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 1/4 sec. cor. bet secs. 14 and 15 Latitude 40°13'44" N longitude 110°00'30" W, I set off 40°14' N, on the lat. arc; 2° 12' 5½' S on the decl. arc; and at 3h 00m 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 55m p. m. by my watch which is 4m 00s slow of l. m. t., I observe Polaris at eastern elongation, in accordance with the manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station

Sept. 29, 1903

Sept. 30 at 7h 30m a. m. l. m. t. I lay off the azimuth of Polaris 1°35' to the west, and mark the meridian thus determined, by cutting a small groove in the stone set Sept. 29 on which the meridian falls 0.5 ins east of the mark determined by the solar.

At 9h 00m a. m. l. m. t. I set off 40°14' N. on the lat. arc; 2°29' 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 0.4 ins. east of the meridian established by the Polaris observation. The solar apparatus by p. m and a. m.

Subdivisions of T. 3 S. R 1 W.

Chains

observations, define positions for meridians respectively about 0°27" west and 0°21" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

From the 1/4 sec. cor. bet secs 14 and 15 which is a sandstone 6 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general. Thence I run

South on a true line bet secs. 14 and 15

Ascend over rolling country over clay knolls.

24.00 Begin steep ascent N.E. and W.

29.80 Top of ridge bears N. 50° E and W. 200 ft above beginning of steep ascent, descend abruptly

32.60 Bottom of gulch drains E. 75 ft below top of ridge; ascend

37.00 Top of ascent 100 ft. above bottom of gulch. Thence along top of rolling flat.

40.00 Set temp. cor. of secs. 14, 15, 22 and 23 afterwards made permanent at its point

Land mountainous

Soil, clay 4th rate

No timber

Mountainous land on 40.00 chs.

From the temp cor. of secs. 14, 15, 22 and 23 I run

West on a random line bet secs 15 and 22

40.00 Set temp 1/4 sec cor.

Subdivisions of T. 3 S. R. 1 W.

Chains	
79.80	Intersect N and S. line 24 lks N. of the cor. of secs. 15, 16, 21 and 22 heretofore described.
	Thence I run
	N. 89° 50' E on a true line bet secs. 15 and 22
	Ascend over rolling country
39.20	Top of spur projects N. descend
39.90	Set a sandstone 30 x 10 x 8 ins. 23 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
44.00	Bottom of gulch drains N. 50 ft below top of spur. ascend
51.80	Top of spur projects N. 40 ft above bottom of gulch. descend
55.00	Bottom of gulch drains N. 50 ft below top of spur, ascend
56.00	Top of small spur projects N. 30 ft above bottom of gulch. descend
63.15	Bottom of gulch drains N.W. 75 ft below top of spur ascend
65.50	Begin abrupt ascent N.E. and S.W.
77.30	Top of abrupt ascent bears N.E. and S.W. 200 ft. above beginning thence along top of rolling flat
79.80	Intersect the temp. cor. of secs. 14, 15, 22 and 23 at which point I set a cobble-rock 16 x 10 x 10 ins 11 ins in the ground for cor. of secs 14, 15, 22 and 23 marked with 3 notches on S. and 2 notches on E. edge; and raise a mound of stone, 2 ft base, 1½ ft. high W. of cor. Pits impracticable.
	Land mountainous
	Soil, rocky and clay 4th rate
	No timber
	Mountainous land on 79.80 chs.
	Sept. 30 at this cor. I set off 2° 34' S. on the decl. arc; and, at 12h 00m M.L.M.T. observe the sun on the meridian; the

Subdivisions of T. 35 R. 1 W.

Chains	
	resulting lat. is 40°13'N, or within 1' of the proper lat.
	Sept 30 at 3h 00m p. m. l. m. t. I set off 40°14'N, on the lat. arc; 2°35'S, on the decl. arc; and determine a meridian with the solar at the corner of secs. 11, 12, 13 and 14 which is a sandstone 8x10x5 ins above ground, firmly set, and marked and witnessed as described by the surveyor general
	Thence I run
	South on a true line bet secs, 13 and 14
	Ascend
6.60	Top of spur projects N. E. 75 ft above sec. cor. descend
15.10	Bottom of gulch drains N. 60° E. 40 ft below top of spur. ascend
27.20	Begin more gentle ascent. along E slope of ridge
38.95	Top of ridge bears N. 20° W. and S. 20° E. 100 ft above bottom of gulch descend
40.00	Set a sandstone 14x8x6 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
40.10	Bottom of swale on W. slope of ridge. 30 ft. below top of ridge. ascend
40.60	Top of ridge bears N. 20° E and S. 20° W. 15 ft. above bottom of swale thence gradual ascent.
53.10	Top of gradual ascent, descend
54.60	Bottom of ravine drains N. E. 25 ft. below top of gradual ascent.
56.00	Top of small ridge bears, N. E. and S. W.

Subdivisions of T. 35 S. R. 1 W.

Chains	
	20 ft. above bottom of ravine descend.
56.90	Bottom of ravine drains N.E. 20 ft. below top of ridge. ascend
62.85	Top of spur projects E. 100 ft above bottom of ravine, descend
64.85	Bottom of ravine drains N. 60° E. 50 ft below top of spur, ascend
68.10	Top of spur projects E. 60 ft above bottom of ravine descend
72.60	Bottom of ravine drains N.E. 50 ft below top of spur begin step ascent
76.10	Top of step ascent bears E and W. 100 ft above bottom of ravine thence along top of rolling flat.
80.00	Set temp cor. of secs. 13, 14, 23 and 24 afterwards made permanent at this point. Land, mountainous Soil, rocky 4th rate No timber Mountainous land on 80.00 chs.
	From the temp. cor. of secs. 13, 14, 23 and 24 I run West on a random line bet 14 and 23
40.00	Set temp 1/4 sec. cor.
80.04	Intersect N. and S. line 34 lks. N. of the cor. of secs. 14, 15, 22 and 23 heretofore described Thence I run N. 89° 50' E. on a true line bet. secs. 14 and 23 Along top of rolling flat.
1.40	Begin descent by N. and S.
10.90	Bottom of gulch drains N. 150 ft. below top of bench. ascend
15.40	Top of ascent bears N. 20° E and S 20° W. 150 ft above bottom of gulch. thence along top of flat. Enter greasewood

Subdivisions of T. 3 S, R. 1 W.

Chains	
	undergrowth
31.40	Begin descent N and S.
33.80	Bottom of gulch drains N. 150 ft below top of bench. ascend
35.65	Top of ascent bears N. and S. 150 ft above bottom of gulch thence along top of flat.
37.40	Begin descent bears N. and S.
40.02	Set a sandstone 16 x 10 x 6 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
40.10	Bottom of gulch drains N. 100 ft below top of flat. ascend
41.40	Top of ascent bears N. and S. W. 100 ft. above bottom of gulch. thence along top of bench.
80.04	Intersect the temp. cor. of secs. 13, 14, 23 and 24 at which point I set a cobblerock 24 x 10 x 8 ins. 18 ins. in the ground for cor. of secs. 13, 14, 23 and 24 marked with 3 notches on S and 1 notch on E. edges; dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist.; and raised a mound of earth, 4 ft. base 2 ft. high, W. of cor.
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber, ~~Greasewood~~ undergrowth on 64.64 Chs.
	Mountainous land on 80.04 Chs.
	East on a random line bet secs. 13 and 24
40.00	Set temp 1/4 sec. cor.
79.74	Intersect the Uintah Special Meridian 20 lks South of the cor of secs. 13, 18, 19 and 24 heretofore described

Subdivision of T. 3 S. R. 1 W.

Chains	
	Thence I run
	S. 89°51' W on a true line bet secs. 13 and 24
	Descend along N. slope of ridge
5.00	Bottom of gulch drains N. 75 ft
	below the corner ascend.
7.50	Top of spur projects N. 50 ft above
	bottom of gulch, descend
10.50	Begin steep descent, N. and S.
13.50	Bottom of ravine drains N. 50 ft.
	below top of spur, ascend
15.00	Top of spur projects N. 25 ft above
	bottom of ravine. descend
17.50	Bottom of ravine drains N.E. 20 ft.
	below top of spur ascend
19.50	Top of spur projects N. 75 ft. above
	bottom of ravine, descend
21.60	Begin steep descent bears N. and S.
24.00	Bottom of ravine drains N. 75 ft
	below top of spur, ascend.
26.50	Top of spur projects N. 40 ft
	above bottom of ravine descend
31.00	Bottom of ravine drains N.E. 50 ft
	below top of spur, ascend
34.25	Top of ascent bears N and S thence
	along rolling flat. Enter greasewood
	and shadscale undergrowth.
39.87	Set a sandstone 15 x 8 x 8 ins 10 ins. in
	the ground for 1/4 sec. cor. marked 1/4
	on N. face: dug pits, 18 x 18 x 12 ins.,
	E and W. of stone, 3 ft. dist: and
	raised a mound of earth, 3 ft. base
	1½ ft. high N. of cor.
79.74	The cor of secs. 13, 14, 23 and 24
	Land, mountainous
	Soil, stony 4th rate
	No Timber. Greasewood and shadscale
	undergrowth on 45.49 chs.
	Mountainous land on 79.74 chs.
	Sept. 30 1903

Subdivisions of T. 35 S. R. 1 W.

Chains	
	Oct 1, 1903 at 9h 00m a. m. l. m. t. I set off 40° 12' on the lat. arc 2° 53' S, on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor. bet secs. 20 and 29 which is a sandstone 9 x 7 x 5 ins above ground, formly set and marked and witnessed as described by the surveyor general
	Thence I run
	West bet secs 20 and 29
	Over gradually ascending land through cottonwood timber and dense willow undergrowth
4.00	Left bank of the Duchesne River course S. E.
5.60	Right bank of the Duchesne river
20.70	Right bank of the Duchesne River course N. 70° E.
22.10	Left bank of the Duchesne River
40.00	Set temp. cor. of secs. 19, 20, 29 and 30 afterwards made permanent at 39.79 chs
	Land, level
	Soil, sandy loam 1st rate
	Timber, cottonwoods and dense willow undergrowth on 39.79 chs.
	Oct. 1 At 10h 00m a. m. l. m. t I set off 40° 12' on the lat arc, 2° 54' S, on the decl. arc; and determine a meridian with the solar at the 1/16 sec. cor. on the N half mile bet. secs 29 and 30 which is a sandstone 8 x 6 x 5 ins above ground marked and witnessed as described by the surveyor general
	Thence I run
	North on a true line bet. secs 29 and 30 ascend gently along top of flat
6.20	Begin steep descent bears E and W.
10.45	Bottom of steep descent 200 ft below

Subdivisions of T. 3 S. R. 1 W.

Chains	
	beginning
10.50	Right Bank of the Duchesne River. Course N. 70° E.
12.60	Left Bank of the Duchesne River. Enter cottonwood timber and dense willow undergrowth. ascend gently.
20.62	Intersect the line bet. secs. 20 and 29 39.79 Chs. west of the 1/4 sec. cor. bet secs. 20 and 29. Set a sandstone 18×12×10 ins. 12 ins. in the ground for cor. of secs. 19, 20, 29 and 30 marked with 2 notches on S and 5 notches on E edges: dig pits 18×18×12 ins. in each sec. 5½ ft dist.; and raise a mound of earth 4 ft base 2 ft high. W. of cor. Land, mountainous Soil, Rocky and stony 4th rate Timber, cottonwood timber and dense willow undergrowth on 8.50 Chs. Mountainous land on 20.62 Chs. Oct. 1, 1903 at this cor. I set off 2°57' S. on the decl. arc; and at 12h 10m m. l. m. t. observe the sun on the meridian the resulting lat is 40°12' N. or within 1' of the proper lat.
	West on a random line bet secs 19 and 30
40.00	Set temp 1/4 sec. cor.
48.35	Fall 30 lks. S. of the Meander Cor. bet secs. 19 and 30 which is 30.81 Chs. East of the W. bdy of the township and which is a sandstone 6×8×4 ins above ground marked and witnessed as described by the surveyor general

Subdivisions of T. 3 S. R. 1 W.

Chains

Thence I run
S. 89° 39' E on a true line bet secs 19 and 30
3.45 Right Bank of the Deschutes River
course S. 50° E.
4.70 Left Bank of the Deschutes River
8.35 Set a cobble rock 17x7x5 ins 12 ins.
in the ground for 1/4 sec. cor. marked
1/4 on N. face; dig pits 18x18x12 ins
E and W. of stone 3 ft. dist.; and raised
a mound of earth, 3½ ft base 1½ ft.
high, N. of cor.
No suitable bearing trees available
8.50 Enter dense willow undergrowth
and scattering cottonwood timber bears
N. W and S. E. descend gently
48.35 The cor. of secs 19, 20, 29 and 30.
Land, level
Soil, loam 1st rate
Timber. scattering cottonwood timber and
dense willow undergrowth
on 39.85 chs.

North on a random line bet. secs. 19 and 20
20.00 I intersect the 1/16 cor. on the S half
mile bet. secs. 19 and 20 which is a
sandstone 6x9x8 ins above ground
marked and witnessed as described
by the surveyor general.
Thence I run
North on a true line bet. secs 19 and 20
Descend through scattering cottonwood
and dense willow undergrowth.
20.00 The cor of secs 19, 20, 29 and 30
Land, level
Soil, loam 1st rate
Timber, scattering cottonwoods and
dense willow undergrowth
on 20.00 chs. Oct. 1 1903

Subdivisions of T. 3 S. R. 1 W.

Chains	
	Oct. 2, 1903 At 9h 00m a.m. l.m.t., I set off 40°12' N. on the lat. arc; 3°16' S. on the decl. arc; and determine a meridian with the solar at the reestablished 1/16 cor. on the south half mile bet. secs. 25 and 26 for a description of which see Notes of Resurvey of Subdivisions of T. 3 S. R. 1 W. in Book "G". Thence I run N. 0°01' W. bet secs. 25 and 26 Through dense willow undergrowth and scattering cottonwoods
11.80	Right Bank of the Duchesne River. course East. heavy timber and undergrowth E + W.
13.70	Left Bank of the Duchesne River begin steep and rocky ascent
14.30	Top of cliff 50 ft. high bears E and W.
15.70	Top of steep and rocky ascent bears N. 60° E and W. 200 ft above beginning. ascend more gradual
17.25	Top of ridge bears E. and W. descend
20.00	Set a cobble rock 24 x 24 x 18 ins. 18 ins in the ground for 1/4 sec. cor. marked 1/4 on W face; and raise a mound of stone 2 ft base 1 1/2 ft high W. of cor. Pits impracticable
23.70	Bottom of gulch drains S. 60° E. 100 ft below top of ridge, ascend
28.00	Begin steep ascent bears N 60° W. and S. 60° E.
29.00	Top of steep ascent 100 ft above gulch begin gentle descent
32.30	Begin steep descent bears N. W. and S. E.
36.30	Bottom of gulch drains S. 60° E 60 ft. below beginning of steep descent begin steep ascent
39.65	Top of steep ascent N. 60° W and S. 60° E. ascend more gradually
43.00	Top of spur projects S. E 75 ft above bottom of gulch descend

Subdivisions of T. 35 S. R. 1 W.

Chains	
44.50	Bottom of ravine drains S.E. 15 ft below top of ridge ascend
46.00	Begin more gradual ascent.
51.50	Top of ascent bears E and W. begin gentle descent
60.00	Set a sandstone 12 x 12 x 8 ins. 8 ins. in the ground for cor. of secs. 23, 24, 25 and 26 marked with 2 notches on S. and 1 notch on E. edge; and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable. Land, mountainous Soil, sandy loam and rocky 1st and 4th rates Timber, Dense willow undergrowth and scattering cottonwoods on 11.80 chs. Mountainous land on 46.30 chs.
	East on a random line bet. secs 24 and 25
40.00	Set temp. ¼ sec. cor.
80.10	Intersect the Uintah Special Meridian 2.70 chs. S. 0° 27' W. of the cor. of secs 19, 24, 25 and 30. As this falling expends the limits prescribed in the manual at my point of intersection I set a cobble rock 18 x 12 x 10 ins. 12 ins. in the ground for closing cor. of secs. 24 and 25 marked C.C. on W.; and 4 grooves on N. and 2 grooves on S. faces; and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable; I destroy all marks on the old cor. pertaining to T. 35 S. R. 1 W. Thence I run West on a true line bet. secs 24 and 25 Descend

Subdivisions of T. 35 S. R. 1 W.

Chains	
7.00	Bottom of gulch drains S.E. 2 chs thence S.W. 100 ft below closing cor. ascend
10.40	Horse trail bears N.W. and S.E.
23.00	Top of ridge bears N.W. and S.E. 125 ft. above gulch, descend
25.00	Bottom of small gulch drains S.E. ascend
29.00	Top of ridge bears N. and S. descend
30.50	Begin steep descent bears N. and S.
33.70	Bottom of gulch drains S. 75 ft. below top of ridge. ascend
40.05	Set a sandstone 14 x 8 x 6 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft base 1 1/2 ft high N. of cor. Pits impracticable
45.50	Top of ridge bears N. and S. 200 ft above bottom of gulch descend
51.50	Begin steep descent bears N. and S.
53.90	Bottom of gulch drains S. 50 ft below top of ridge
55.95	Horse trail bears N.E. and S.W.
59.00	Top of ridge bears N. and S. 50 ft above bottom of gulch, descend
61.00	Begin steep descent bears N. and S.
66.00	Bottom of gulch drains South 100 ft below top of ridge
67.70	Top of spur projects S. 25 ft above bottom of gulch
68.75	Horse trail bears N.W. and S.E.
69.30	Bottom of gulch drains S.E. 2.00 chs thence South, 40 ft below top of spur. ascend
80.10	The cor. of secs. 23, 24, 25 and 26 Land mountainous Soil, stony and rocky 4th rate No timber Mountainous land on 80.10 chs.

Subdivision of T. 3 S. R. 1 W.

Chains

N. 0 1 W on a random line bet. secs. 23 and 24

40.00 Set temp 1/4 sec. cor.

82.60 Intersect E. and W. line 80 lks S. 89° 50' W of the cor. of secs 13, 14, 23 and 24 heretofore described

As this falling exceeds the limits prescribed in the manual at my point of intersection I set a sandstone 16 x 12 x 8 ins 11 ins in the ground for closing cor. of secs 23 and 24, marked C.C. and 3 grooves on S. and 1 groove on E. faces; and raise a mound of stone 2 ft base 1½ ft. high S. of cor. Pits impracticable

I destroy all marks pertaining to secs. 23 and 24 on old cor. Thence I run S 0° 1' E. on a true line bet secs 23 and 24

Descend gently along top of rolling bench through shadscale and greasewood

14.00 Begin more abrupt descent bears E. and W. thence along W. slope of ridge.

41.00 Top of Ridge bears N. 1° E. and S. E. descend

42.60 Set a cobble-stone 16 x 8 x 5 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable

43.90 Bottom of swale on W. slope of ridge 60 ft below top of ridge

45.60 Top of spur projects W. 30 ft above bottom of swale descend

53.40 Bottom of gulch drains W. 60 ft. below top of spur. ascend

56.80 Top of spur projects W. 75 ft above bottom of gulch. descend

65.45 Bottom of gulch drains S. E. 120 ft. below top of spur. ascend

66.75 Horse trail bears N. W. and S. E.

71.10 Top of ridge bears N. W. and S. E. 75 ft above bottom of gulch descend

74.95 Bottom of gulch drains S 60° E. 50 ft. below top of ridge - ascend

Subdivisions of T. 3 S. R. 1 W.

Chains	
76.20	Top of spur projects E. 40 ft. above bottom of gulch descend
77.60	Bottom of gulch drains E. 25 ft. below top of spur. ascend abruptly
78.45	Begin more gradual ascent. E. and W.
82.60	The cor. of secs. 23, 24, 25 and 26
	Land mountainous
	Soil, rocky 4th rate
	No Timber, Greasewood and shadscale undergrowth on 82.60 Chs.
	Mountainous land on 82.60 Chs.
	Oct. 2 At this cor. I set off 3°20'S, on the decl. arc; and at 12h00m M, l. m. t. observe the sun on the meridian; the resulting lat is 40°12'N, or within 1' of the proper lat.
	Oct. 2 At 3h00m p. m. l. m. t I set off 40° 12'N. on the lat. arc, 3°22'S on the decl. arc; and determine a meridian with the solar at the reestablished 1/16 cor on the south half mile bet secs. 26 and 27 for a description of which see notes of Resurvey of Subdivisions of T. 3 S. R. 1 W. in Book 9.
	Thence I run
	N. 0°2' W. bet. secs. 26 and 27
	Through dense willow undergrowth and scattering cottonwood timber
10.30	Horse trail bears E. and W.
17.50	Leave dense willow undergrowth and scattering cottonwood timber bears E and W.
20.00	Set a sandstone 15 x 8 x 6 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face: dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft dist.; and raise a mound of earth 3½ ft

Subdivision of T. 3 S. R 1 W.

Chains	
	base 1½ ft. high W. of cor.
20.50	Dry wash 30 feet wide 5 ft deep drains S. E. ascend
25.30	Horse trail bears N. W. and S. E.
42.50	Begin steep ascent bears E. and W.
44.40	Top of blue clay spur projects E. 75 ft above beginning of steep ascent begin steep descent
46.00	Bottom of gulch drains S. E. 50 ft below top of spur, begin precipitous ascent N. E. and S. W.
52.15	Begin more gradual ascent
54.60	Top of ridge bears N. E. and S. W. 200 ft above bottom of gulch thence descend
60.00	Set a cobble rock 16×12×10 ins 11 ins. in the ground for cor. of secs. 22, 23, 26 and 27 marked with 2 notches on S and E edges; and raise a mound of stone 2 ft base 1½ ft high W. of cor
	Pits impracticable
	Land mountainous
	Soil, rocky and clay 4th rate
	Timber, dense willow undergrowth and scattering cottonwoods on 17.50 Chs.
	Mountainous land on 60.00 Chs.

	East on a random line bet secs 23 and 26
40.00	Set temp ¼ sec. cor.
79.98	Intersect N. and S. line 4 links S. of the cor of secs. 23, 24, 25 and 26
	Thence I run
	S. 89°58' W on a true line bet secs 23 and 26
	ascend gradually through shadscale and greasewood undergrowth
7.00	Top of ascent 60 ft above sec. cor.

Subdivisions of T. 3 S. R. 1 W.

Chains	
	begin gradual descent N. W. and S. E.
15.50	Bottom of descent begin abrupt ascent bears N. E. and S. W.
20.00	Top of ridge bears N. E and S. W. 50 ft above beginning of abrupt ascent. descend gently
23.50	Begin abrupt descent bears N. E and S. W.
27.30	Bottom of gulch drains S. 30° E. 70 ft. below top of ridge. ascend
28.75	Top of spur projects S. 25 ft above bottom of gulch
30.30	Bottom of gulch drains S. E. 15 ft below top of spur
38.00	Top of ridge bears N and S. 75 ft above bottom of gulch. descend
39.99	Set a cobble-rock 15 X 9 X 5 ins. 10 ins. in the ground for 1/4 sec cor, marked 1/4 on N. face; and raise a mound of stone 2 ft base 1 1/2 ft high. N. of cor. Pits impracticable
44.20	Begin steep descent bears N. and S
49.25	Bottom of gulch drains S. 150 ft. below top of ridge. ascend
60.50	Top of ridge bears N. W. and S. E. 100 ft above bottom of gulch, begin steep descent
67.50	Bottom of draw drains S. 75 ft below top of ridge thence ascend along S. slope of ridge
76.00	Top of ascent bears N. and S. descend.
79.98	The cor. of secs. 22, 23, 26 and 27

Land, mountainous

Soil, rocky and clay 4th rate

No Timber, Greasewood and shadscale undergrowth on 79.98 chs.

Mountainous land on 79.98 chs.

Subdivisions of T. 3 S. R. 1 W.

Chains

N. 0° 2' W. on a random line bet. secs. 22 and 23.

40.00 Set temp. 1/4 sec. cor.

81.97 Intersect E. and W. line 75 lks S. 89° 50' W. of the cor. of secs. 14, 15, 22 and 23 As this falling exceeds the limits prescribed in the manual at my point of intersection I set a sandstone 14 x 10 x 5 ins 10 ins in the ground, for closing cor. of secs 22 and 23 marked C.C. with 3 grooves on S.; and 2 grooves on E. faces; dig pits 24 x 18 x 12 ins. crosswise on each line E and W. 3 ft dist and S. of stone 7 ft dist.; and raised a mound of earth, 4 ft base, 2 ft. high, S. of cor. I destroy all marks pertaining to secs. 22 and 23 on the old cor. Thence I run S. 0° 2' E. on a true line bet secs 22 and 23 Descend gently along top of rolling flat thro greasewood and chaparral undergrowth

22.45 Begin descent bears N. W and S. E.

24.95 Gulch drains S. E. 75 ft below top of flat.

26.95 Top of spur projects E. 20 ft above bottom of gulch. descend

29.70 Gulch drains S.E. 30 ft below top of spur

31.45 Top of ridge spur projects N. W. 50 ft. above bottom of gulch, descend abruptly over sandstone boulders and cliffs.

36.75 Bottom of abrupt descent thence rough and rolling descent along W. slope of ridge, 200 ft below top.

41.97 Set a cobblerock 16 x 8 x 8 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft base 1 1/2 ft high W. of cor. Pits impracticable

Subdivisions of T. 3 S. R. 1 W.

Chains	
75.90	Bottom of gulch drains N. W. begin steep ascent
81.97	The cor. of secs. 22, 23, 26 and 27 250 ft above bottom of gulch. Land, mountainous Soil, clay 4th rate No Timber, Greasewood and shadscale undergrowth on 81.97 chs. Mountainous land on 81.97 chs. Oct. 2, 1903
	Oct. 3 at 9h 00m a. m. l. m. t. I set off 40° 12' M. on the lat arc, 3° 39' S. on the decl. arc; and determine a meridian with the solar at the reestablished 1/16 cor. on the S. half mile bet secs. 27 and 28 for a description of which see Notes of Resurvey of Subdivisions of T. 3 S. R. 1 W. in Book J. N. 0° 3' W on a random line bet secs 27 and 28
20.00	Set temp 1/4 sec. cor.
60.45	Fall 33 lks W. of the cor of secs 21, 22, 27 and 28, Thence I run S. 0° 16' W. on a true line bet secs. 27 and 28 Descend
3.50	Bottom of descent bears N. E and S. W. ascend
7.00	Top of spur projects W. 50 ft above bottom of descent.
10.50	Foot of spur 50 ft below top thence gradual descent.
12.00	Enter greasewood and sage brush undergrowth
23.50	Leave greasewood and sage brush undergrowth enter dense willow undergrowth and scattering cottonwood timber E and W.

Subdivisions of T. 3 S. R. 1 W.

Chains

36.50 As the point for 1/4 sec cor falls in the Duchesne River at this point I set a cottonwood post 3 ft long 3 ins square., 24 ins in the ground for witness 1/4 sec. cor. marked W.C. 1/4 S. 28 on W. face and 27 on E face; from which
A cottonwood 10 ins. diam. bears S. 73°30' E 120 lks dist marked W.C. 1/4 S. 27 B.T.
A cottonwood 10 ins diam. bears N. 6° W. 82 lks dist. marked W.C. 1/4 S. 28 B.T.

38.85 Left bank of a branch of the DuChesne River course S.E.

40.90 Right bank of a branch of the DuChesne River.

60.45 The 1/16 cor. on the South half mile bet. secs. 27 and 28
Land, mountainous
Soil, Rocky and clay 4th rate
Timber, greasewood and sagebrush on 11.50 chs. Dense willow undergrowth and scattering cottonwoods on 36.95 chs.
Mountainous land on 23.50 chs.

East on a random line bet. secs. 22 and 27
From the cor. of secs. 21, 22, 27 and 28
I run East on a random line

40.00 Set temp 1/4 sec. cor.

79.10 Intersect N. and S. line 136 lks. N. of the cor. of secs. 22, 23, 26 and 27
As this falling exceeds the limits perscribed in the manual I abandon random line and begin at the cor of secs 22, 23, 26 and 27 and run.
West on a true line bet. secs 22 and 27
Descend along N. slope of ridge

Subdivisions of T. 3 S. R 1 W.

Chains	
11.05	Bottom of gulch drains S. W. 100 ft. below sec. cor. ascend
19.85	Top of ridge bears N. E and S. W. 75 ft above bottom of gulch. descend
28.05	Bottom of gulch drains S. 60° W. 75 ft. below top of ridge. ascend
30.05	Top of S. slope of small knoll about 40 ft high. descend
34.55	Horse trail bears N and S.
36.75	Dry wash drains S. 30° W. ascend
39.85	Set a cobble rock 16 x 11 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable
45.05	Bottom of descent, ascend
53.00	Top of small ridge bears N. and S. 50 ft above bottom of descent.
54.85	Bottom of gulch drains S. 25 ft. below top of ridge. ascend
57.15	Top of small ridge bears N and S. 25 ft above bottom of gulch. descend
59.00	Bottom of gulch drains S. 25 ft. below top of ridge, ascend
61.15	Top of spur projects S. 25 ft above bottom of gulch. descend
62.30	Bottom of gulch drains S. E. 20 ft below top of spur. descend
71.00	Top of ridge bears N. and S. 75 ft. above bottom of gulch descend
75.55	Foot of ridge bears N. and S. 60 ft. below top of ridge thence gradual descent
79.10	Intersect N. and S. line 136 lks S. 0° 16' W. of the cor. of secs 21, 22, 27 and 28 at my point of intersection I set a cobble rock 20 x 8 x 6 ins. 15 ins in the ground for closing cor of secs 22 and 27 marked C. C. with 3 grooves on E. and 2 grooves on S. face; and raise a mound of stone

Subdivisions of T. 3 S. R. 1 W.

Chains

2 ft base 1½ ft high E. of cor. Pits impracticable. I destroy all marks pertaining to secs. 22 and 27 on old cor.
Land mountainous
Soil, rocky and clay 4th rate
No timber
Mountainous land on 79.10 chs.
Oct. 3 At this cor. I set off 3°43' S, on the decl. arc; and at 12h 00m. m, l.m.t. observe the sun on the meridian. the resulting lat. is 40°12' N. or within 1' of the proper lat.
Oct 3, 1903

General Description.

This portion of the township contains practically nothing but clay and rocky ground (4th rate) except along the Duchesne River where it is sandy loam (1st rate) but which is so near the water level that it is subject to overflow in times of floods and therefore would not be suitable for farming

There is no grass upon this portion of the township as it is very dry and parched and the only water upon it is the Duchesne River.

A growth of shadscale, greasewood and sagebrush undergrowth grows upon a portion of it and along the Duchesne River dense willow undergrowth and scattering cottonwoods grow

There are no signs of minerals upon the township and the only sign of settlers upon it is in secs. 25 and 36 where an old wire fence is found and which I think is the remains of an old abandoned farm.

Harry Page
[illegible]

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision lines of T. 3 S. R. 1 W. Uintah Special Base & Meridian showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whitman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Township No. 3 South Range No. 1 W. of the Uintah Special 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

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whitman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, ~~189~~ 1903, 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 Township No 3 South Range No. 1 West of the Uintah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January, ~~189~~ 1904

Edward H Anderson
U. S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah June 30 1904, ~~189~~

The foregoing field notes of the survey of The Subdivisional lines of Township 3 South Range 1 West of the Uintah Special Base & Meridian Utah

executed by Robert E. Collier and Harry Rager under his contract No. 269, dated July 22 1903, 189 , 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-306

FIELD NOTES

OF THE SURVEY OF THE

Retracement of the
Mentah Special Meridian
through
Township No. 3 South

Of the Mentah Special Base and Meridian,
In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyor, 5

Under ~~his~~ their Contract No. 269 dated July 22 1903, ~~189~~

~~Survey~~ Retracement commenced Oct. 5 1903, ~~189~~

~~Survey~~ Retracement completed Oct. 5 1903, ~~189~~

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BOOK. A-306

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robt. Douglas	Mound man
C. E. Whiteman	Flagman

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BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

We, A. B. Larsen and Edward McKee

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~~ Retracement of the Uintah Special Meridian through T. 3 S. of the Uintah Special Base and Meridian Utah

A. B. Larsen, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Atkinson
Notary Public

We, Robt Douglas 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~~ me to the best of ~~our~~ my skill and ability, in the ~~survey of~~ Retracement of the Uintah Special Meridian through T. 3 S. of the Uintah Special Base and Meridian Utah

Robt Douglas, Moundman.

..., Moundman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Atkinson
Notary Public

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, C. E. Whitman, 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~~ Retracement of the Uintah Special Meridian through T. 3 S. of the Uintah Special Base and Meridian Utah

C. E. Whitman, Flagman.

Subscribed and sworn to before me this 4 day of September 1903

SEAL

Henry R. Atkinson
Notary Public

6—31

Retracement of Mintah Special Meridian through T. 3 S.

Chains	
	Survey commenced Oct 5 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment for a description of which see notes of Retracement and resurvey of Subdivisions of T. 2 S. R. 1 E. in Book "A"
	as the instrument was examined and solar apparatus checked by Polaris observation Sept 29 1903 I do not deem it necessary to make another test therefore I proceed as follows;
	To check the closings of sec. 36 in T. 3 S. R 1 W.
	I begin at the corner of secs. 25, 30, 31 and 36 on the Mintah Special Meridian heretofore described
	Thence I run
	South on a true retracement line bet. secs 31 and 36
20.14	Intersect the 1/16 sec. cor. which is a sandstone 6 x 7 x 4 ins. above ground marked and witnessed as described by the surveyor general
40.14	Intersect the 1/4 sec. cor. which is a sandstone 5 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general
60.28	Intersect the 1/16 sec. cor. which is a sandstone 8 x 12 x 8 ins. above ground marked and witnessed as described by the surveyor general
81.00	Intersect the cor. of Tps. 3 and 4 South, Rs 1 E. and 1 W. which is a sandstone 7 x 13 x 5 ins. above

Retracement of Uintah Special meridian through T. 3 S.

Chains

ground marked and witnessed as described by the surveyor general. The course of this line is therefore South and is 81.00 chs. in length.

Oct. 5 1903

Harry Rager
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement of Uintah Special Meridian through T. 3 S. of the Uintah Special Base and Meridian Utah showing the respective capacities in which they acted:

A B Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C E Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the Retracement of Uintah Special Meridian through T. 3 S. of the Uintah Special Base and Meridian, State of Utah ~~of the~~ meridian, ~~of~~ retracted, 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.

A B Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C E Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1902 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, ~~189~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement of the Uintah Special Meridian through T. 3 S.

of the Uintah Special 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; 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah June 30, 1904, ~~189~~

The foregoing field notes of the ~~survey~~ retracement of the Uintah Special Meridian Township 3 South between Ranges 1 East and 1 West

executed by Robert E. Phillips and Harry Rager under ~~his~~ their contract No. 269, dated July 22, 1903, ~~189~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~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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BOOK A-306

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FIELD NOTES

OF THE SURVEY OF THE

South Boundary

of

Township No. 3 South, Range No. 1 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Lt. E. L. Collier and Harry Roger, United States Deputy Surveyors,

under ~~his~~ their Contract No. 269, dated July 22, 1903 ~~189~~

Survey commenced October 5th 1903 ~~189~~

Survey completed October 6th 1903 ~~189~~

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NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee

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

South Boundary T. 3 S. R. 1 E. of the Uintah Special Base & Meridian. Utah

A. B. Larson, *Chainman.*

Edward McKee, *Chainman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Atkinson
Notary Public.

~~WE,~~ I Robert Douglas ~~and~~

do solemnly swear that ~~we~~ I 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 of

South Boundary of T. 3 S. R. 1 E. of the Uintah Special Base & Meridian Utah

Robt. Douglas, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Atkinson
Notary Public.

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, C. E. Whitman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South Bdy. of T. 3 S. R. 1 E. of the Uintah Special Base & Meridian Utah

C. E. Whitman, *Flagman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Atkinson
Notary Public.

6—151

South Bdy. of T. 3 S. R. 1 E.

Chains

Survey commenced Oct. 5. 1903 and executed with a W and L.E. Gurley light mountain transit not numbered with solar attachment. For a description of instrument see Notes of retracement lines of T. 2 S. R. 1 E, in Book "A" I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris. I proceed as follows: At the cor. of secs. 2, 3, 34 and 35 on the S. Bdy. of T. 3 S. R. 1 E. which is a sandstone 5 x 7 x 6 ins. above ground marked and witnessed as described by the Sur. genl. lat. 40° 10' 41" N, longitude 109° 53' 43" W, I set off 40° 11' N. on the lat. arc; 4° 32' S. on the decl. arc; and at 3h 00m p.m. l.m.t. determine with a solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs N. of my station. At 6h 32m p.m. by my watch which is 4m 00s slow 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 stake driven in the ground, 5 chs. N. on my station.

Oct. 6, 1903 at 7h 00m a.m. l.m.t., I lay off the azimuth of Polaris 1° 35' to the west and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 5 on which the meridian falls 0.4 ins. east of the mark determined by the solar. At 9h 00m a.m. l.m.t., I set off 40° 11' N. on the lat. arc. 4° 49' S. on the

Chain

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 lins. east of the meridian established by the Polaris observation.

The solar apparatus defines the position for meridian, by p. m and a. m. observations, respectively about 0'21" west and 0'16" east of the meridian established by the Polaris observations therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 9h 00m a. m. is N. 16°15' W.; the angle thus determined gives the mag. decl. 16°15' E.

From the Cor. of secs. 2, 3, 34 and 35 already described I run

West on a random line on S. bdy of T. 3 S. R. 16 E. Setting temp 1/4 and sec. cors at intervals of 40.00 and 80.00 chs. respectively.

320.85 I intersect the West bdy of the township 1.52 lks. N of the township corner, which is a sandstone 10 x 12 x 6 ins. above ground marked and witnessed as described by the surveyor general.

Thence I run,

N. 89°44' E. on true line bet. secs. 6 and 31

Ascend along S. slope of ridge

1.20 Dry wash drains S.

7.00 Dry wash drains S.

8.25 Dry wash drains S.

South bdy. of T. 3 S. R. 1 E.

Chains	
9.70	Dry wash drains S.
15.00	Top of spur projects S. 150 ft above top cor. desc.
21.00	Bottom of descent bears N. & S. 100 ft below top of spur asc.
25.00	Top of ridge bears N. 10° W and S. 10° E, 25 ft above bot of desc. desc.
26.00	Bottom of descent bears N. and S. 35 ft below top of ridge asc.
26.70	Top of spur projects N. 5 ft above bottom of desc. desc.
27.50	Bottom of descent bears N. and S. 20 ft. below top of spur asc.
29.90	Top of sandstone ridge bears N.W. and S.E. begin steep descent
31.00	Foot of sandstone ridge 50 ft. below top of sandstone ridge thence descend gently over broken and irregular surface.
40.85	Set a sandstone 18 x 10 x 8 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1/2 ft high. N. of cor. Pits impracticable
44.40	Dry wash drains N. begin steep ascent
54.75	Top of spur projects S. 100 ft above bottom of dry wash. descend
57.00	Bottom of descent bears N. and S. 150 ft below top of spur thence begin ascent over broken and stony land
59.70	Top of ridge bears N. and S. 50 ft above bottom of descent. descend
70.30	Bottom of descent 60 ft below top of ridge. ascend
79.00	Top of spur projects W. 75 ft above bottom of descent. descend
80.85	Set a sandstone 22 x 11 x 9 ins 17 ins in the ground for cor of secs. 5, 6, 31 and 32 marked with 5 notches on E and 1 notch on W. edges: and raise a mound of stone 2 ft base 1/2 ft high W. of cor. Pits impracticable
	Land, mountainous
	Soil, rocky and clay 4th rate
	No timber.
	Mountainous land on 80.85 Chs.
	Oct. 6, 1903 At this cor. I set off

South bdy. of T. 35 S. R. 1 E.

Chains	
	4°52' S. on the dial, arc; and at 12h 00m m. l. m. t. observe the sun on the meridian; the resulting lat is 40° 11' N, or within 1' of the proper lat.
	N. 89°44' E. on a true line bet secs 5 and 32
	Descend gradually
3.15	Begin ascent over rolling foot hills and broken country bears N.E. and S.E.
14.50	Begin more abrupt ascent bears N.W and S.E.
17.75	Top of ridge bears N. W. and S.E. 50 ft above beginning of more abrupt ascent descend
21.15	Bottom of gulch drains N. 30 ft below top of ridge, ascend
26.40	Top of ridge bears N.E and S. W. 50 ft. above bottom of gulch, descend
35.40	Bottom of gulch drains N.E. 25 ft. below top of ridge, ascend
38.40	Top of spur projects N.E. 30 ft above bottom of gulch, descend.
40.00	Set a sandstone 14 x 9 x 6 ins, 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
42.85	Bottom of gulch drains N. 50 ft below top of spur, ascend
56.55	Top of ascent bears N. and S. 75 ft above bottom of gulch, descend
58.75	Bottom of gulch drains N. 75° W. ascend along rolling foot hills. 50 ft. below top of asc.
69.75	Top of spur projects N. 50 ft above bottom of gulch, descend
76.45	Bottom of gulch drains N. 40 ft. below top of spur, ascend
78.15	Dry wash 15 lks wide 5 ft deep drains N. W.

South Bdy of T. 35 R. 1 E.

Chains	
80.00	Set a cobble-rock 16 x 9 x 6 ins 11 ins in the ground for cor. of secs. 4, 5, 32 and 33 marked with 4 notches on E and 2 notches on W. edges and raised a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable Land, mountainous Soil, rocky and sandy 4th rate No timber Mountainous land on 80.00 chs.
	N. 89° 44' E on a true line bet. secs. 4 and 33 Ascend gradually
9.15	Dry wash 2 ft wide 10 ft deep drains N. ascend
16.40	Dry wash 10 ft wide 5 ft deep drains N. W.
21.65	Top of spur projects N. 150 ft above bottom of dry wash.
26.75	Bottom of ravine drains N. 60 ft below top of spur. ascend
32.35	Top of ridge bears N. and S. 150 ft above bottom of ravine, descend.
32.95	Head of ravine drains N. 20 ft below top of ridge
34.90	Top of plateau bears N. and S. 20 ft above head of ravine thence along top of level bench
39.95	Begin descent bears N. W. and S. E.
44.55	Bottom of ravine drains N. 30° W. 75 ft. below beginning of descent begin steep ascent.
46.40	Top of plateau bears N. W and S. E. 75 ft. above bottom of ravine thence nearly level.
56.50	Begin descent bears N. E. and S. W.
57.90	Bottom of ravine drains N. 30° E. 25 ft. below beginning of descent

40.00 Set a cobble stone 14" x 8 x 5" 9" in the ground for 1/4 sec corner marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N of corner pits impracticable

South bdy of T. 35. R. 16.

Chains	
66.15	Head of ravine drains North. ascend
74.05	Horse trail bears N. and S.
76.15	Top of ascent. descend
79.55	Bottom of ravine drains N. E. 50 ft. below top of ascent.
80.00	Set a cobble-rock 18 x 11 x 6 ins 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34 marked with 3 notches on E. and 3 on W. edges and raise a mound of stone 2 ft. base 1½ ft high W of Cor. Pits impracticable Land mountainous Soil, rocky and sandy 4th rate No timber Mountainous. closed on 80.00 Chs.
	Oct 6 At 3h 00m p. m. l. m. t. I set off 40°11'S. on the lat. arc; 4°55'S, on the decl. arc. and determine a meridian with the solar at the cor of secs. 3, 4, 33 and 34 thence I run N. 89°44'E on true line bet. secs. 3 and 34 ascend
1.85	Top of spur projects N. 20 ft. above corner. descend
4.95	Bottom of gulch drains N. 15° W. 30 ft below top of spur. ascend
10.85	Top of ascent bears N. and S. 75 ft. above bottom of gulch thence over level plateau
12.20	Horse trail bears N and S.
24.15	Begin descent bears N. 75° E and S. 75° W.
29.65	Bottom of ravine drains N. 75° E. 50 ft. below beginning of descent. thence ascend along N. W. slope of plateau
40.00	Set a cobble-rock 16 x 8 x 6 ins 11 ins. in the ground for ¼ sec. cor. marked

South bdy of T. 3 S. R. 1 E.

Chains	
	1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
42.85	Begin descent bears N. and S.
47.15	Bottom of dry wash drains N. E.
48.95	Bottom of dry wash drains North.
53.15	Bottom of ravine drains North, asc.
55.90	Top of spur projects N. 30 ft above bottom of ravine. descend
56.45	Horse trail bears N. and S.
57.95	Bottom of ravine drains N. 25 ft. below top of spur. ascend
72.65	Dry wash drains N.
74.65	Top of ascent bears N. and S. descend
76.90	Bottom of gulch drains N. W. ascend
80.00	The cor. of secs 2, 3, 34 and 35
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 80.00 chs.
	Oct. 6 1903

For General Description see Notes of subdivisions of T. 3 S. R. 1 E. in Book "M"

Harry Rager
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 Harry Ragan, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of South Boundary of T. 3 S. R. 1 E. of the Uintah Special Base & Meridian Utah showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*

Edward McKee, *Chainman.*

Robert Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Ragan, United States Deputy Surveyor, in surveying all those parts or portions of the South Boundry of T. 3 S. R. 1 E. of the Uintah Special 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

A. B. Larson, *Chainman.*

Edward McKee, *Chainman.*

Robt Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October 1903 ~~189~~

SEAL

Harry Ragan
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rogers, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, 1903, 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 South Boundary of T. 3 S. R. 1 E.

of the Uintah Special 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.

Harry Rogers
United States Deputy Surveyor.

Subscribed by said Harry Rogers, and sworn to before me this 28th day of January, 1904

Edward H. Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1904

The foregoing field notes of the survey of the south Boundary of Township 3 South Range 1 East of the Uintah Special Base & Meridian, Utah

executed by Robert E. P. Collier & Harry Rogers under his contract No. 269, dated July 22, 1903, 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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JAN 28 1904

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BOOK A-306

N.F.B

FIELD NOTES

OF THE ~~SURVEY OF THE~~

Resurvey of Subdivision lines

of

Township No 3 South, Range No. 1 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, ~~189~~ 1903

Survey commenced October 7th, ~~189~~ 1903

Survey completed October 10th, ~~189~~ 1903

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Resurvey High 3-00-51

Line 0-60-00

Retained 5-21-12

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Roundsman
C. E. Whitman	Flagman

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BOOK A-306

INDEX DIAGRAM.

Township No 3 South, *Range* No 1 East

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee

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 Retracement & Resurvey of Subdivision lines of T. 3 S. R. 16 of the Uintah Special Base & Meridian Utah

A. B. Larson, *Chainman.*

Edward McKee, *Chainman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Mathieson
Notary Public

~~WE,~~ I Robert Douglas ~~and~~

do solemnly swear that ~~we~~ I 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 of Retracement & Resurvey of Subdivision lines of T. 3 S. R. 16, of the Uintah Special Base & Meridian Utah

Robt Douglas, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Mathieson
Notary Public

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, C. E. Whiteman, 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 Retracement & Resurvey of Subdivision lines of T. 3 S. R. 16 of the Uintah Special Base & Meridian Utah

C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Mathieson
Notary Public

6—151

Chains

Resurvey of subdivisions of T. 35. R. 1 E.

Survey commenced Oct. 7, 1903 and executed with a W and L. E. Gurley light mountain transit, with, solar attachment, for a description of which see notes of Retracement and Resurvey lines of T. 2 S. R. 1 E. in Book "A"

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

at the cor. of secs. 1, 2, 11 and 12 which is the nearest corner to the 1/4 sec. cor. bet secs 1 and 2 at which corner part of the subdivisions were to begin; latitude 40° 15' N, longitude 109° 52' 37" W, I set off 40° 15' N, on the lat. arc; 5° 17' S, on the decl, arc; and at 3h 00m 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 my station - Oct 7 - 1903

Oct 8 at 6h 24m a. m. by my watch which is 4m 00s slow 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

Oct. 8 at 7h a. m. l. m. t., I lay off the azimuth of Polaris 1° 35' to the West and mark the meridian thus

Resurvey of subdivisions of T. 35 R.

Chains

determined by cutting a small cross on the stone set Oct. 7 on which the meridian falls 0.5 ins west of the mark determined by the solar at 9h 00m a. m. l. m. t. I set off 40°15' N. on the lat. arc; 5°35' S. on the decl. arc; and mark a point in the meridian, determined with the solar, by a groove on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. west 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°26" east and 0°21" west of the meridian established by the Polaris obs. Therefore I conclude the adjustments of the transit are satisfactory. The magnetic bearing of the true meridian at 9h 00m a. m. is N. 16°15' W.; the angle thus determined gives the magnetic decl. 16°15' E.

From the corner of secs. 1, 2, 11 and 12 which is a sandstone 8 x 9 x 6 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general and being the nearest cor. to the 1/4 sec. cor. bet. secs. 1 and 2 which could not be found but at which point a cedar post 4 ins. square 24 ins. above ground is set and which was identified by an indian settler as the place where the corner used to set before recent survey, I run N. 0°01' W. on a resurvey line bet. secs. 1 and 2

Resurvey of subdivisions of T. 35 S. R. 1 E.

Chains	
	Ascend through shadscale and greasewood undergrowth
30.85	Wagon Road Fort Du Chene to Curay bears N. W. and S. E.
31.15	Canal 25 lks wide 10 ins deep. drains S. E.
38.40	Horse trail bears. N. W. and S. E.
40.00	Intersect the cedar post heretofore described at which point I set a sandstone 16 x 8 x 8 ins 11 ins in the ground for reestablished 1/4 sec. cor. marked 1/4 on W. face; dig pits, 18 x 18 x 12 ins., N and S. of stone 3 ft dist.; and raise a mound of earth 3½ ft base 1½ ft high W. of cor. Land, mountainous Soil, rocky and clay 4th rate Timber, greasewood and shadscale undergrowth on 40.00 chs, mountainous land on 40.00 chs, October 8 At this cor I set off 5° 38' S on the decl. arc; and at 12h 00m M, l. m. t. observe the sun on the meridian; the resulting lat is 40° 15' N, or within 1' of the proper lat.
	Being unable to locate the position of the corner of secs. 15, 16, 21 and 22 which I found laying loose upon the ground I begin at the 1/16 corner on the South half mile between secs. 15 and 16 which is a cobble rock 10 x 10 x 6 ins above ground marked and witness as described by the surveyor general. Thence I run. South on resurvey line between 15 & 16
	Descend through greasewood and shadscale undergrowth
20.00	Set temp. cor. of secs 15, 16, 21 and 22. Corners made permanent at this point Land, mountainous

Resurvey of Subdivision of T. 30 S. R.

Chains	
	Soil, sandy 4th rate
	No Timber; shadscale and greasewood undergrowth on 20.00 chs,
	Mountainous land on 20.00 chs,
	To ascertain if the temp. cor. of secs, 15, 16, 21 and 22 is the place for permanent cor. of secs. 15, 16, 21 and 22 I begin at the temp. cor. of secs 15, 16 21 and 22 and run East on random resurvey line bet. secs. 15 and 22,
20.00	No trace of old 1/16 cor could be found in the radius of 5 chs. set temp 1/16 sec. cor.
40.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs. set temp. 1/4 sec. cor.
60.00	No trace of old 1/16 cor. could be found in the radius of 5 chs. set temp 1/16 cor.
80.36	I intersect the cor. of secs. 14, 15, 22 and 23 which is a sandstone 6"x8"x6" above ground marked and witnessed as described by the surveyor general Thence I run West on true resurvey line, bet secs. 15 and 22 Through dense willow undergrowth and scattering cottonwood timber
11.55	Branch of the DuChene River 20 lks wide 16 ins deep drains N.
12.15	Wire fence bears N. and S.
19.35	Branch of the DuChene River 20 lks wide 10 ins deep course South
20.09	Set a cobblestone 16x8x6 ins 11 ins in the ground for reestablished 1/16 cor. marked 1/16 on N. face and raised a

Resurvey of subdivisions of T. 35. R. 16.

Chains	
	mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable
20.35	Branch of the DuChesne River 30 lks wide 6 ins deep course S. 30° E.
27.66	Branch of the DuChesne River 30 lks wide 10 ins deep course N. E.
37.35	a log cabin 12 x 12 ft square bears North 1 ch dist.
38.40	a log cabin 8 x 10 ft square bears North 40 lks dist.
40.18	Set a cobble rock 20 x 8 x 6 ins 15 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which:
	a cottonwood 12 ins. diam. bears N. 72° W. 225 lks dist. marked 1/4 S. 15 B. T.
	a cottonwood 11 ins diam bears S. 60° W. 102 lks. dist. marked 1/4 S. 22 B. T.
50.30	Leave dense undergrowth and scattering cottonwood timber N. E and S. W. enter shadscale and greasewood undergrowth
51.46	a wire fence bears N. and S.
59.40	a wire fence bears. N. 65° E and S. 65° W.
60.27	Set a sandstone 18 x 8 x 6 ins 12 ins. in the ground for 1/16 sec. cor. marked 1/16 on N. face; and raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable
61.00	Begin ascent over rolling sand hills
62.30	Farm Road bears N. E and S. W.
69.85	Farm Road bears N. 60° W and S. 60° E.
78.00	Wagon Road bears N. 65° E and S 65° W.
80.36	I intersect the temp cor. of secs. 15, 16, 21 and 22 at which point I set the old cor. which is a sandstone 18 x 8 x 6 ins properly marked which I set 12 ins in the ground for cor. of secs. 15, 16, 21 and 22.; 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.

Resurvey of subdivisions of T. 3 S. R. 1 E.

Chains

Land, mountainous
Soil, sandy loam 2nd rate
No Timber; dense willow undergrowth and scattering cottonwoods on 50.30 chs. greasewood and shadscale undergrowth on 30.06 chs.
Mountainous land on 80.36 chs.

October 8, at 3h 00m p. m. l. m. t I set off 40° 12' N. on the lat. arc; 5° 41' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30 which is a sandstone 5 x 7 x 5 ins. above ground firmly set, but no marks visible therefore I retrace
West bet. secs. 19 and 30.
20.00 Intersect the 1/16 sec cor bet secs. 19 and 30 described in Book "M" therefore I return to the cor. of secs. 19, 20, 29 and 30 which I remark with 2 notches on S and 5 notches on E edges.
Land, level.
soil, rocky and stony 4th rate
No timber.

October 8, 1903

Oct 9 - At 9h 00m a. m. l. m. t. sky overcast and obs impossible
Being unable to find any marks to identify the 1/4 sec. cor. bet. secs. 31 and 32, which is a sandstone 10 x 16 x 6 ins. above ground in a mound of stone, at which point part of the subdivisions of this township were to begin,
I retrace
North on a random line bet. secs. 31 and 32
40.00 No trace of the cor. of secs. 29, 30, 31 and 32

Chains — Resurvey of subdivisions of T. 3 S. R 1 E.

could be found therefore I run
West on a random retracement line
bet. secs. 30 and 31
40.00 Intersect the 1/4 sec. cor. bet. secs.
30 and 31 which is a sandstone
5 x 8 x 6 ins above ground marked
and witnessed as described by the
surveyor general.
Thence I run
East on a true retracement line bet
secs. 30 and 31
Descend gently through greasewood
and shadscale undergrowth
41.00 Set temp cor. of secs. 29, 30, 31 and 32
Corner after wards made permanent at this point
Land, level
Soil, clay 3rd rate
No Timber; greasewood and shadscale
undergrowth on 40.00 chs.

To ascertain if the temp. cor. of
secs. 29, 30, 31 and 32 is the proper
place for permanent cor.
I begin at the temp cor. of secs. 29, 30,
31 and 32 and run
East on a random retracement line
bet. secs. 29 and 32
20.15 Intersect the 1/16 sec. cor. bet. secs.
29 and 32 described in book "M", thence I run
West on a true retracement line
bet secs. 29 and 32.
Descent through greasewood and
shadscale undergrowth
0.15 Dry wash drains N.E. ascend gently
20.15 The temp. cor. of secs. 29, 30, 31 and 32
at which point I set a cobble rock
12 x 8 x 6 ins 8 ins in the ground for
cor. of secs. 29, 30, 31 and 32 marked
with 1 notch on S. and 5 notches on E.

Resurvey of subdivisions of T. 35 S. R. 16

Chains

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, clay 3rd rate
No Timber; shadscale and greasewood undergrowth on 20.15 chs.
Mountainous land on 20.15 chs.
Oct. 9 at this cor. I set off 6°01'S. on the decl. arc; and, at 12h 00m. observe the sun on the meridian; the resulting lat is 40°12' N. or within 1' of the proper lat.

South on a true resurvey line bet. secs. 31 and 32
Ascend through shadscale and greasewood undergrowth.
34.85 Dry wash 15 lks wide 3 ft deep drains N. W.
38.50 Foot of rocky bluff bears E and W. begin rough and rocky ascent.
40.00 Intersect the 1/4 sec. cor. heretofore described which I remark with 1/4 on W. face.
Land, mountainous
Soil, clay, rocky and stony 4th rate
No Timber; shadscale and greasewood undergrowth on 40.00 chs.
Mountainous land on 40.00 chs.

October 9 at 3h 00m p.m. l.m.t. I set off 40°12' on the lat arc. 6°03'S. on the decl. arc; and determine a meridian with the solar at the cor of secs

Resurvey of subdivisions of T. 35 S. R. 16,

Chains	
	26, 27, 34 and 35 which is a sandstone 5X7X6 ins. above ground, firmly set but having no mark visible therefore I run
	North on a random resurvey line bet. secs. 26 and 27
20.00	No trace of old 1/16 cor. could be found in the radius of 5 chs. set temp 1/16 cor.
40.00	Intersect the 1/4 sec. cor. bet. secs. 26 and 27 which is a sandstone 6.X7X6 ins above ground marked and witnessed as described by the surveyor general
	Thence I run
	South on a true resurvey line bet. secs. 26 and 27.
	Ascend over rolling plateau through shadscale and greasewood undergrowth
17.50	Bottom of gulch drains W. thence along W. side of same
19.80	Bottom of same gulch drains N. 30° E.
20.00	Set a cobble rock, 14X8X6 ins 9. ins in the ground for 1/16 cor. marked 1/16 on W. face and raise a mound of stone 2 ft. base 1/2 ft. high W. of cor. pits impracticable
22.30	Dry wash drains N. W. 50 ft thence N.
33.50	Begin abrupt ascent bears E and W.
34.60	Top of abrupt ascent 50 ft above beginning, bears E and W. thence gentle descent.
40.00	The cor. of secs. 26, 27, 34 and 35 heretofore described which I remark with 1 notch on S. and 2 notches on E edges.
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber; greasewood and shadscale undergrowth on 40.00 chs.

Resurvey of subdivisions of T. 3 S. R. 16.

Chains

mountainous land on 40.00 chs.

October 9, 1903

For General Description of this Township See Notes of Subdivision Lines T. 3 S. R. 16. in Book "M"

Harry Rogers
U. S. Deputy Surveyor.

Volume
#
R0306

Chains | Retracement of Subdivisions of T. 3 S., R. 16,

Survey commenced Oct 10 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment, for a description of which see notes of retracement and resurvey of Subdivisions of T. 2 S., R 1 E. in Book "a"

do the instrument was examined and solar apparatus checked by Polaris observation Oct 8 1903. I do not deem it necessary to make another test therefore I proceed as follows;

From the re-established cor. of secs. 1, 2, 11 and 12 heretofore described I run

West on a retracement line bet. secs. 2 and 11

20.00 Fall 5 lks. N. of the 1/16 sec. cor. which is a sandstone 8 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general

40.00 Fall 10 lks. N. of the 1/4 sec. cor. which is a sandstone 7 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general

60.06 Fall 16 lks. N. of the 1/16 sec. cor. which is a sandstone 7 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general

80.08 Fall 31 lks. N. of the cor. of secs. 2, 3, 10 and 11 which is a sandstone 10 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general

The course of this line is therefore S. 89° 51' W. and is 80.08 chs. in length

Chains

West on a retracement line bet. secs. 3 and 10

19,98 Fall 5 lks. N. of the 1/16 sec. cor. which is a sandstone 6 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general

39,95 Fall 10 lks. N. of the 1/4 sec. cor. which is a sandstone 6 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general

59,98 Fall 16 lks. N. of the 1/16 sec. cor. which is a sandstone 7 x 9 x 4 ins. above ground marked and witnessed as described by the surveyor general

79,90 Fall 21 lks. N. of the cor. of secs. 3, 4, 9 and 10 which is a sandstone 5 x 10 x 4 ins. above ground marked and witnessed as described by the surveyor general.

The course of this line is therefore S. 89°51' W. and is 79,90 chs. in length.

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

20,10 Fall 3 lks. E. of the 1/16 sec. cor. which is a sandstone 6 x 7 x 6 ins. above ground marked and witnessed as described by the surveyor general

40,20 Fall 6 lks. E. of the 1/4 sec. cor. which is a sandstone 7 x 10 x 5 ins. above ground marked marked and witnessed as described by the surveyor general.

60,30 Fall 9 lks. E. of the 1/16 sec. cor. which is a sandstone 5 x 7 x 7 ins. above ground marked and witnessed as described by the surveyor general

80,80 Fall 12 lks. E. of the cor. of secs.

Retracement of Subdivision of T. 35 R 16,

Chains	
	3, 4, 33 and 34 heretofore described The course of this line is therefore N. 0° 5' W. and is 80.80 Chs. in length.
	Oct. 10, at 10h 00m a.m. l.m.t. I set off 40° 12' N, on the lat arc; 6° 22' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 29, 30, 31 and 32 heretofore described
	Thence I run
	North on a retracement line bet. secs. 29 and 30
19.88	Intersect the 1/16 sec. cor. which is a sandstone 6 x 8 x 7 ins. above ground marked and witnessed as described by the surveyor general
39.76	Intersect the 1/4 sec. cor. which is a sandstone 5 x 7 x 7 ins. above ground marked and witnessed as described by the surveyor general
59.63	Fall 1 lk. E. of the 1/16 sec. cor. which is a sandstone 7 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general
79.54	Intersect the cor. of secs. 19, 20, 29 and 30 which is a sandstone 5 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general
	The course of this line is therefore North and is 79.54 Chs. in length.

Retracement of Subdivisions of T. 3 S R 1 E.

South on a retracement line bet secs. 21 and 22

20,60 Intersect the 1/16 sec. cor. which is a cottonwood post 18 x 4 x 4 ins above ground marked and witnessed as described by the surveyor general The course of this line is therefore South and is 20.60 chs. in length.

From the cor. of secs. 2, 3, 10 and 11 which is a sandstone 10 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general N. bet. secs. 2 and 3

20,05 Fall 6 lks. W. of the 1/16 sec. cor. which is a sandstone 7 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general

40,15 Fall 12 lks. W. of the 1/4 sec. cor. which is a sandstone 5 x 10 x 5 ins. above ground marked and witnessed as described by the surveyor general

60,25 Fall 17 lks W. of the 1/16 sec. cor. which is a sandstone 6 x 7 x 5 ins above ground marked and witnessed as described by the surveyor general

80,20 Fall 23 lks. W. of the cor. of secs. 2, 3, 34 and 35 which is a sandstone 5 x 12 x 10 ins above ground marked and witnessed as described by the surveyor general

The course of this line is therefore N. 0° 10' E. and is 80.20 chs. in length

Oct, 10, 1903

For General Description see Notes of Subdivision of T. 3 S. R 1 E. – Harry Rogers
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 Harry Roger, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement and Resurvey of subdivision lines of T. 3 S. R. 1 E. U. S. B. and M.,

showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
A. E. Whitman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Roger, United States Deputy Surveyor, in surveying all those parts or portions of the Retracement and Resurvey of Subdivision Lines of T. 3 S. R. 1 E.

of the Uintah Special 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

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
A. E. Whitman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1913 ~~189~~

SEAL

Harry Roger
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rogers, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement and Resurvey of Subdivisional Lines of T. 3 S., R. 16 E.

of the Uintah Special 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.

Harry Rogers
United States Deputy Surveyor.

Subscribed by said Harry Rogers, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the retracement and resurvey of the subdivisional lines of Township 3 South Range 1 East of the Uintah Special Meridian, Utah

executed by Robert E. Collier & Harry Rogers under his contract No. 269, dated July 22 1903, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and 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.

M.

BOOK A-306

FILED

JAN 28 1904

L.H.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No. 3 South, Range No. 1 East

Of the Utah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Roger, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22, ~~189~~ 1903

Survey commenced October 10th, ~~189~~ 1903

Survey completed October 17th, ~~189~~ 1903

6—151

Length 21.55.63

Lines 3.26.74

Closing 16.86

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

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BOOK A-306

INDEX DIAGRAM.

Township No. 3 South, *Range* No. 1 East

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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, A. B. Larson and Edward McKee

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 Subdivision lines of T. 3 S. R. 1 E. of the Twentieth Special Base & Meridian Cth

A. B. Larson, Chainman

Edward McKee, Chainman

Subscribed and sworn to before me this 4th day of September 1903

Henry R. M. Atkinson
Notary Public

SEAL

~~WE,~~ I Robert Douglas ~~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 Subdivision lines of T. 3 S. R. 1 E. of the Twentieth Special Base & Meridian Cth

Robt Douglas, Moundman

, Moundman

Subscribed and sworn to before me this 4th day of September, 1903

Henry R. M. Atkinson
Notary Public

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

, Axman

, Axman

Subscribed and sworn to before me this day of , 189

SEAL

I, C. E. Whiteman, 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 Subdivisions of T. 3 S. R. 1 E. of the Twentieth Special Base & Meridian Cth

C. E. Whiteman, Flagman

Subscribed and sworn to before me this 4th day of September, 1903

Henry R. M. Atkinson
Notary Public

SEAL

6—151

-1-

Subdivisions of T 3 S R 1 E

272A

M

3 S R 1 E

269

high	low	closing
39.60		
60.00		
20.00		
100.20		
100.00		
101.00		3.38
59.86		
100.00		
100.45		
100.00		
101.30		
101.31		1.31
79.20		2.43
34.00	46.00	
44.54	35.30	
79.24		2.36
100.00		
32.45	79.80	
22.40	46.50	2.18
19.21	59.14	1.34
40.00		
59.38		
60.00		
79.90		
101.00		80
40.36		67
100.00		1.14
79.50		1.25
21.55 63	3.26.74	16.86

4

97 4

80/835/10 268

Subdivisions of T. 3 S. R. 1 E.

Chains

Survey commenced Oct 10/03 and executed with a W and L. E. Gurley light mountain transit with solar attachment, for a description of which see Notes of retracement of T. 2 S. R. 1 E. Book A.
I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m. and p. m. hours, with a meridian determined by observations on Polaris, I proceed as follows,
At the unestablished 1/4 sec. cor. bet. secs. 1 and 2 latitude 40° 15' 27" N, longitude 109° 52' 37" W, I set off 40° 15' 27", on the lat. arc, 6° 26 S, on the decl. arc; and, at, 3h 00m 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. Oct. 10, 1903
Oct. 11 at 6h 02m a. m. l. m. t. by my watch which is 4m 00s slow 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 11 At 7h 30m a. m. l. m. t. I lay off the azimuth of Polaris, 1° 35' to the East and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 10 on which the meridian falls 0.5 ins.

Subdivisions of T. 3 S. R. 1 E.

Chains	
	west of the mark determined by the solar. At 9h 00m a. m., l. m. t., I set off 40° 15' N, on the lat. arc; 6° 43' 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 0.4 ins west 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' 26" east and 0' 21" west of the meridian established by the Polaris observations: therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the true meridian, at 9h 00m a. m., is N 16° 15' W.; the angle thus determined gives the magnetic decl. 16° 15' E.
	From the reestablished 1/4 sec. cor. bet. secs. 1 and 2 heretofore described I run N. 0° 01' W on a random line bet secs 1 and 2
39.60	I intersect the N. bdy of the township 16 lks. E of the cor. of secs. 1, 2, 35 and 36 heretofore described, thence I run S. 0° 15' E. on a true line bet secs. 1 and 2 Ascend over rocky sandstone ledges through scattering shadscale and greasewood.
24.50	Top of sandstone ridge bears E and W. 75 ft above corner thence descend
26.15	Begin abrupt descent over sandstone ledges
36.50	Foot of abrupt descent, 175 ft. below

Subdivisions of T. 3 S. R 1 E.

Chains	
	beginning, bears E and W. thence gradual descent.
39.60	The reestablished 1/4 sec. cor. bet. secs. 1 and 2
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber; scattering shadscale and greasewood undergrowth on 39.60 Chs.
	Mountainous land on 39.60 Chs.
	Oct. 11, 1903 at this cor. I set off 6°47' S, on the decl. arc; and, at 12h 00m m. observe the sun on the meridian, the resulting lat. is 40°15' N, or within 1' of the proper lat.
	Oct. 11, 1903 at 3h 00m p.m. l.m.t. I set off 40°13' N, on the lat. arc; 6°49' S, on the decl. arc; and determine a meridian with the solar at the corner set. 20 chs N of the cor. of secs 15, 16, 21 and 22. heretofore described
	Thence I run
	N. 0°2' W on a random line bet secs 15 and 16
40.00	Set temporary 1/4 Section corner
60.00	Fall 14 lks. W. of the cor. of secs 9, 10, 15 and 16 which is a cobble rock 10x10x6 ins above ground marked and witnessed as described by the surveyor general.
	Thence I run
	S. 0°6' W, on a true line bet secs 15 and 16
	Ascend
0.75	Top of spur projects W. 20 ft above sec. cor. descend
3.50	Bottom of gulch drains W. 35 ft below top of spur ascend
5.50	Top of spur projects W. 50 ft above bottom of gulch. descend
7.00	Foot of spur 50 ft below top. thence

Subdivisions of T. 35 S. R. 1 E.

Chains	
	gradual ascent
14.75	Foot of spur. begin more abrupt ascent
15.75	Top of spur projects W. 50 ft above foot of spur. descend
22.00	Bottom of gulch drains W. 40 ft below top of spur descend.
26.00	Top of spur projects W. 30 ft above bottom of gulch. descend
28.00	Bottom of gulch drains W. 30 ft below top of spur. thence ascend along N. W. slope of ridge.
40.00	Set a cobble rock 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
42.00	Top of ridge bears E. and W. 50 ft above 1/4 sec. cor. and 200 ft above beginning of ascent begin abrupt descent over clay slide
47.00	Bottom of abrupt descent 200 ft below top. thence descend gradually
54.40	Canal 20 lks. wide 8 ins. deep course N. 50° E.
60.00	The corner set 20 chs. N. of the cor. of secs. 15, 16, 21 and 22, and is a cobble rock 12 x 10 x 8, above ground marked and witnessed as described by the surveyor general. Land mountainous Soil, rocky clay 4th rate No timber Mountainous land on 60.00 chs.

From the 1/16 cor on the N. bdy

Subdivisions of T. 3 S. R. 1 E.

Chains

mile bet. secs. 20 and 21 which is a cobble-stone 6 x 6 x 6 ins. above ground marked and witnessed as described by the surveyor general
Thence I run
N. 0° 3' W. on a true line bet. secs. 20 and 21
Ascend over rolling country sloping west

2100 Set temp. cor. of secs. 16, 17, 20 and 21
Remainder [illegible] 20.73 [illegible]
Land, mountainous
Soil, rocky and stony [illegible]
No timber
Mountainous land on 20.73 Chs.

From the temp. cor. of secs. 16, 17, 20 and 21
I run East on a random line bet. secs. 16 and 21

4000 Set temp. ¼ sec. cor.

8020 Intersect the [illegible] line 73 [illegible] South of the cor. of secs. 15, 16, 21 and 22
As this falling exceeds the limits prescribed in the manual I abandon the random line and begin at the cor. of secs. 15, 16, 21 and 22
Oct. 11, 1903 at [illegible] p.m. [illegible]
set off 40°15' N. on the lat. arc; 6°40' E. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 15, 16, 21 and 22.
Thence I run
West on a true line bet. secs. 16 and 21
Ascend gently over rolling sand-hills through shadscale and greasewood undergrowth

4010 Set a cobble-rock 16 x 12 x 10 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on N. of arc; dig pits 18 x 18 x 12 ins.

Subdivisions of T. 3 S. R. 1 E.

Chains	
	E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
40.50	Canal 15 lks wide 12 ins deep course N. 55° E.
56.75	Begin more abrupt ascent over rolling broken country along S. slope of ridge. bears N. E and S. W.
63.45	Bottom of small gulch drains S.
65.75	Top of N. slope of Knoll. 50 ft above bottom of gulch. descend
71.00	Bottom of gulch drains S. 75 ft below top of N. slope of Knoll. ascend
76.00	Top of spur projects S. 75 ft above bottom of gulch. descend
80.00	Bottom of gulch drains S. E. 50 ft. below top of spur. ascend
80.20	Intersect the line running N. bet secs. 20 and 21. 20.73 chs. N. of the 1/16 cor. on the N. half mile bet secs. 20 and 21, at my point of intersection I set a cobble-rock 12×12×6 ins 8 ins. in the ground for cor. of secs. 16, 17, 20 and 21 marked with 3 notches on S and 4 notches on E edges; and raise a mound of stone 2 ft. base 1½ ft high. W. of cor. Pits impracticable. Destroyed temporary corner to secs 16, 17, 20 & 21 Land, mountainous Soil, clay and rocky 4th rate No Timber; shadscale and greasewood undergrowth on 80.20 chs. Mountainous land on 80.20 chs. Oct, 11, 1903
	Oct 12, at 9h 00m a. m. l. m. t. I set off 40°12' on the lat. arc; 7°07' S. on the decl. arc. and determine a meridian with the solar at the corner of secs 19, 20, 29

Subdivisions of T. 3 S. R. 1 E.

Chains	
	and 30 which is a sandstone 5x7x5 above ground which was remarked by me and described in the Notes of Resurvey of Subdivisions of T. 3 S. R. 1 E., Book "L" Thence I run N. 0° 4' W. on a random line bet secs. 19 and 20.
40.00	Set temp 1/4 sec. cor.
80.00	Set temp cor. of secs. 17, 18, 19 and 20
	From the temp cor of secs 17, 18, 19 and 20 I run East on a random line bet secs. 17 and 20
40.00	Set temp. 1/4 sec. cor.
80.00	I intersect the N. and S. line 1 ch. south of the cor. of secs. 16, 17, 20 and 21 As this falling exceeds the limits prescribed in the manual I abandon the random line and begin at the cor. of secs. 16, 17, 20 and 21 and run West on a true line bet. secs. 17 and 20
	Ascending S. slope of ridge
23.00	Top of ridge bears N. 75° E and S. 75° W, 200 ft above sec. cor. descend
30.50	Bottom of gulch drains N. 150 ft. below top of ridge, ascend
35.00	Top of spur projects N. 30° E. 100 ft above bottom of gulch.
40.00	Set a sandstone 15 x 8 x 6 ins 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1½ ft high N. of cor. Pits impracticable
41.25	Dry wash drains N. 150 ft below top of spur, thence gradual ascent along N. slope of ridge, enter greasewood and shadscale bears N. and S.
80.00	I intersect the line bet. secs. 19 and 20 1 ch. N. of the temp corner to secs. 17, 18, 19, and 20, At my point of

Subdivisions of T. 2 S. R. 1 E.

Chains

intersection I set a cobble stone 16 x 6 x 6 ins 11 ins in the ground for cor. of secs. 17, 18, 19 and 20 marked with 3 notches on S and 5 notches on E. edges; and raise a mound of stone 2 ft. base 1½ ft high. W. of cor. Pits impracticable

Land, mountainous

Soil, rocky clay 4th rate

M. Timber, shadscale and greasewood undergrowth on 38.75 chs.

Mountainous land on 80.00 chs.

Oct. 12. at this cor. I set off 7° 11' S. on the decl. arc. and, at 12h 00m M. observe the sun on the meridian; the resulting lat is 40° 13' N, or within 1' of the proper lat.

S. 0° 4' E on a true line bet secs 19 and 20 ascend through shadscale and greasewood undergrowth

6.00 Foot of ridge bears E. and W. begin abrupt ascent.

12.50 Top of ridge bears E. and W. 200 ft. above foot of ridge, descend

18.00 Bottom of ravine drains S. 60° E. 100 ft. below top of ridge, ascend abruptly

23.00 Top of ridge 75 ft. above bottom of ravine bears. N. W. and S. E. descend gently.

28.30 Begin steep descent from ridge bears. S. E and S. W.

40.00 Set a sandstone 14 x 8 x 6 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

42.30 Bottom of gulch drains S. E. 50 ft

Subdivisions of T. 3 S. R. 1 E.

Chains	
	below 1/4 sec. cor. ascend
43.10	Horse trail bears. N. W. and S. E.
52.50	Dry wash drains E.
56.00	Top of small ridge bears E. and W. 50 ft above Dry wash, descend.
62.00	Bottom of small ravine drains S. E. 50 ft below top of ridge ascend
63.50	Top of ascent 25 ft above bottom of ravine descend along E slope of ridge
76.30	Dry wash drains S. E.
77.70	Dry wash drains East.
81.00	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous
	Soil, rocky and stony 4th rate.
	Timber; shadscale and greasewood undergrowth on 81.00 chs.
	Mountainous land on 81.00 chs.

Oct. 12 at 3h 00m p. m. l. m. t. I set off 40°12' N. on the lat. arc; 70°12' A. on the decl. arc; and determine a meridian with the solar at the 1/16 sec. cor. on the East half mile bet secs. 19 and 30, heretofore described. Thence I run.

	West on a random line bet. secs. 19 and 30
29.00	Set temp. 1/4 sec. cor.
59.86	I intersect the Uintah Special Meridian 338 lks. S. 0°27' W. of the cor. of secs 19, 24, 25 and 30 heretofore described

As this falling exceeds the limits prescribed in the Manual, at my point of Intersection I set a cobblerock 18 x 8 x 6 ins. 12 ins. in the ground for closing cor. of secs 19 and 30 marked C.C. on E. with 4 grooves on N. and 2 grooves on S. faces and raise a mound of stone 2 ft. base 1½ ft high E. of cor. Pits impracticable

and destroy all marks pertaining to
sees 19 and 20 on the meridian corner.
Thence 3 mi.
East on a true line bet. sees. 19 and 20
Descend
35 Bottom of small ravine drains S.W.
[illegible] ft. below closing cor. ascend
365 Top of ascent 30 ft above bottom of
small ravine, bears N. and S. descend
[illegible] Bottom of ravine drains S.E. 50 ft below
top of ascent. ascend
[illegible] Top of ridge bears N.W. and S.E. 75 ft
above bottom of ravine descend
1335 Head of small ravine drains S.E. 30 ft
below top of ridge thence descend along
S. slope of ridge
[illegible] Begin steep descent bears N.E. and S.W.
[illegible] Bottom of gulch drains S.W. 100 ft
below beginning of steep descent.
ascend abruptly
[illegible] Top of ridge bears N. and S. 70 ft above
bottom of gulch. descend gently
[illegible] Set a cobble rock 15 x 10 x 8 ins 10 ins in
the ground for ¼ sec. cor. marked ¼ on
N. face, and raise a mound of stone
2 ft. base ½ ft. high N. of cor.
Pits unpracticable
[illegible] Bottom of gulch drains S 30° E. 50 ft
below ¼ sec. cor. ascend
[illegible] Top of ridge bears N. and S.E. 100 ft above
bottom of gulch. descend
[illegible] Begin steep descent bears N. and S.E.
[illegible] Bottom of gulch drains S.E. 40 ft below
beginning of steep descent, ascend
[illegible] Top of ridge bears N. and S. 50 ft above
bottom of gulch. descend
[illegible] Begin steep descent bears N. and S.
[illegible] The ¼ cor. bet. sees. 19 and 20
Land mountainous
Soil rocky clay. [illegible]
No timber

Subdivisions of T. 35. R. 16.

Chains	
	Mountainous land on 59.86 chs.
	N. 0° 7' W. on a true line bet. secs 16 and 17 ascend over steep clay slides along W. slope of gulch drains S.
13.24	Top of ridge bears E and W. 150 ft above sec. cor. thence begin gradual descent through shadscale and greasewood undergrowth.
30.49	Horse trail bears N. W. and S. E.
40.00	Set a cobble-rock 12x8x6 ins 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18x18x12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft high W. of cor.
51.74	Bottom of gulch drains N. E. ascend gradually
80.00	Set a sandstone 16x10x4 ins. 11 ins. in the ground for cor. of secs. 8, 9, 16 and 17 marked with 4 notches on S. and E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Land mountainous
	Soil, rocky clay 4th rate
	No Timber; shadscale and greasewood undergrowth on 66.76 chs.
	Mountainous land on 80.00 chs.
	East on a random line bet. secs 9 and 16
40.00	Set temp 1/4 sec. cor.
80.45	Intersect the N and S. line 5 lks N. of the cor. of secs. 9, 10, 15 and 16. hereto for description Oct. 12 - 1903
	Oct. 13, at 9h 00m a. m. l. m. t. I set

Subdivisions of T. 3 S. R. 1 E.

Chains	
	off 40°14' N. on the lat. arc 7°28' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16
	Thence I run
	N. 89°58' W. on a true line bet. secs 9 and 16
	Descend gradually over sandy country through shadscale and rabbit-brush undergrowth
20.15	Bottom of gulch drains N. E. ascend gradually
40.22½	Set a cobble-rock 12×8×6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pits 18×18×12 ins. E and W. of stone 3 ft dist. and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.
80.45	The cor. of secs. 8, 9, 16 and 17.
	Land, mountainous
	Soil, sandy and rocky 4th rate
	No Timber; shadscale and rabbit brush undergrowth on 80.45 Chs.
	Mountainous land on 80.45 Chs.
	N. 0°7' W. on a true line bet secs 8 and 9
	Ascend through shadscale and rabbit-brush undergrowth.
9.00	Begin abrupt ascent
10.50	Top of spur projects W. 75 ft above beginning of abrupt ascent, descend gradually
15.00	Small ravine drains N. W. ascend gradually along top of bench
40.00	Set a cobblerock 12×8×6 ins. 8 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18×18×12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
75.00	Begin abrupt descent bears E. and W.

Subdivisions of T. 3 S. R. 16.

Chains

80.00 Set a cobblerock 16 x 7 x 5 ins. 11 ins. in the ground for cor. of secs. 4, 5, 8 and 9 marked with 5 notches on S. and 4 notches on E. edges; dig pits 18 x 18 x 12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land mountainous

Soil, rocky sand 4th rate

No Timber; shadscale and rabbit-brush undergrowth on 80.00 chs.

Mountainous land on 80.00 chs.

Oct. 13, 1903 at this corner, I set off 7°32'5, on the decl. arc; and at 12h 00m m, observe the sun on the meridian; the resulting lat is 40°15' N, or within 1' of the proper lat.

S. 89°58' E. on a random line bet. secs. 4 and 9

4.00 Set stemp. 1/4 sec. cor.

81.30 Intersect N. and S. line 5 lks N. of the cor. of secs. 3, 4, 9 and 10 which is a sandstone 5 x 9 x 5 ins. above ground marked and witnessed as described by the surveyor general. As the length of this line shows there is a discrepancy in the closing of sec. 9 after checking my courses and distances I send a flagman to the cor. of secs. 9, 10, 15 and 16 which can be seen from the cor. of secs. 3, 4, 9 and 10, and find the course of line N. bet. secs. 9 and 10 to be N. 0°35' E. which course accounts for mis-closing. Thence I run N. 89°56' W. on a true line bet. secs. 4 and 9

Subdivisions of T. 35. R 16.

Chains	
	Ascend gently along N. slope of bluff bears E and W. through shadscale and rabbit-brush undergrowth
36.25	Horse trail bears N. E and S. W.
41.30	Set a cobblerock 15 X 10 X 5 ins. 10 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins E and W. of stone 3 ft. dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high N. of Cor.
46.40	Top of spur projects N. E. descend
50.50	Bottom of gulch drains N. 30 ft below top of spur, ascend
53.20	Top of Ridge bears N. and S. 50 ft. above bottom of gulch. descend
60.10	Bottom of gulch drains N.E. 50 ft. below top of ridge. ascend
63.30	Top of spur projects N. E. 40 ft. above bottom of gulch, descend
68.40	Bottom of gulch drains N. 50 ft. below top of spur, ascend
74.40	Top of ridge bears N and S. 60 ft above bottom of gulch. descend
79.80	Small ravine drains N. 30 ft. below top of ridge. ascend
81.30	The cor. of secs. 4, 5, 8 and 9
	Land, mountainous
	Soil, sandy 4th rate
	No Timber, shadscale and rabbit-brush undergrowth on 81.30 chs.
	Mountainous land on 81.30 chs.

Oct. 13, 1903 at 3h 00m p. m. l. m. t. I set off 40°15' N, on the lat. arc 7°34' S, on the decl. arc; and determine a meridian with the solar at the cor. of secs 4, 5, 8 and 9

Thence I run

Subdivisions of T. 3 S. R. 1 E.

Chains	
	N. 0° 07' W on a random line bet secs. 4 and 5
40.00	Set temp. 1/4 sec. cor.
81.31	Intersect the N. bdy. of the township 131 lks N 89° 50' W of the cor. of secs 4, 5, 32 and 33 which is a sandstone 8 x 8 x 6 above ground marked and witnessed as described by the surveyor general As this falling exceeds the limits perscribed in the Manual, at my point of intersection I set a sandstone 22 x 12 x 8 ins. 17 ins in the ground for closing cor. of secs. 4 and 5 marked C. C. on S.; with 4 grooves on E. and 2 grooves on W. faces; and raise a mound of stone 2 ft. base 1½ ft. high S. of cor. Pits impracticable I destroy all marks pertaining to secs. 4 and 5 on old cor. Thence I run S. 0° 07' E on a true line bet secs 4 and 5. Over rough and rocky country ascend
8.05	Top of rocky ridge bears E and W. 75 ft. above closing cor. descend abruptly over rough sandstone ledges and boulders
12.80	Bottom of steep descent 250 ft below top of ridge, bears E and W. thence gradual descent through shadscale and rabbit-brush undergrowth
24.35	Telephone line from Price to Fort DuChesne bears N. 75° E and S. 75° W.
26.30	Wagon Road from Price to Vernal bears N. 75° E. and S. 75° W.
31.30	Bottom of Dry Gulch, a stream of waste water, from the canals on bench of T. 2 S. R. 1 E. 25 lks wide 6 ins. deep course E. begin gradual ascent.
33.10	Bottom of Old canal 15 lks wide course S. 60° E.
39.45	Horse trail bears E and W.
41.30	Set a sandstone 16 x 8 x 6 ins 11 ins.

Subdivisions of T. 3 S. R. 16.

Chains

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

43.50 Dry wash drains E.

58.10 Old road bears N. W. and S. E.

81.31 The cor. of secs. 4, 5, 8 and 9

Land, mountainous

Soil, sandy 4th rate

No Timber, chaparral and rabbit-brush undergrowth on 68.51 chs.

Mountainous land on 81.31 chs.

October 13, 1903.

Oct. 14 at 9h 00m a.m. l.m.t. I set off 40° 13' N. on the lat. arc; 7° 51' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs 17, 18, 19 and so heretofore described.

Thence I run

West on a random line bet. secs. 18 and 19

40.00 Set temp 1/4 sec. cor.

79.20 Intersect the Mental Special meridian 243 lks S 02 W of the cor. of secs 13, 18, 19 and 24 which is a sandstone 6 x 8 x 6 above ground marked and witnessed as described by the surveyor general as this falling exceeds the limits prescribed in the manual at my point of intersection I set a cobblestone 12 x 12 x 8 ins 8 ins. in the ground for closing cor. of secs. 18 and 19 marked C. C. on E. with 3 grooves on N. and S. faces; and raise a mound of stone 2 ft. base 1½ ft. high E. of cor. Pits impracticable and destroyed all marks pertaining

Subdivisions of T. 3 S. R. 1 E.

Chains	
	to secs. 18 and 19 on the old cor.
	Thence I run
	East on a true line bet. secs. 18 and 19
	Ascend gently along top of ridge
	bears E and W.
9.95	Top of gentle ascent begin steep descent
	bears. N. 80° W. and S. 80° E. along N.
	slope of ridge
23.20	Top of spur projects N. from main ridge
	100 ft below beginning of step descend
	descend more gradually
25.60	Bottom of ravine drains N. E. 50 ft
	below top of spur, ascend
26.70	Top of spur projects N. 75 ft above
	bottom of ravine, descend.
32.40	Bottom of ravine drains N. 100 ft. below
	top of spur, ascend abruptly
36.50	Top of spur projects N. 125 ft above
	bottom of ravine descend abruptly
39.20	Set a sandstone 20 x 14 x 5 ins. 15 ins in
	the ground for 1/4 sec. cor. marked 1/4
	on N. face; and raise a mound
	of stone 2 ft. base 1½ ft. high
	N. of cor. Pits impracticable
42.20	Bottom of steep descent bears N. and
	S. E. 200 ft below top of spur, thence
	gentle descent through shadscale and
	rabbit-brush undergrowth
56.40	Dry wash drains N. 30° E. ascend
	gently
56.45	Horse trail bears N. W. and S. E.
79.20	The cor. of secs. 17, 18, 19 and 20
	Land, mountainous
	Soil, rocky clay. 4th rate
	No Timber, shadscale and rabbit-brush
	undergrowth on 37.00 chs.
	Mountainous land on 79.20 chs.

Subdivisions of T. 3 S., R. 1 E.

Chains	
	N. 0° 8' W. on a true line bt. secs. 17 and 18
	Descend gently over rolling country through shadscale and rabbit-brush undergrowth
26.70	Dry wash 20 lks wide 3 ft. deep drains E., begin gradual ascent.
40.00	Set a sandstone 14 x 8 x 6 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N and S. of stone 3 ft dist.; and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
46.00	Begin abrupt ascent bears E. and W.
51.50	Top of spur projects W. 100 ft above beginning of abrupt ascent, descend
54.50	Bottom of ravine drains W. 40 ft below top of spur, ascend
57.00	Top of ridge bears E. and W. 50 ft above bottom of ravine, descend
73.00	Bottom of descent bears E. and W. 150 ft below top of ridge ascend
75.00	Top of ridge bears E and W. 50 ft above bottom of descent, descend
79.15	Dry wash drains E. ascend
80.00	Set a sandstone 22 x 10 x 8 ins 17 ins in the ground for cor. of secs. 7, 8, 17 and 18 marked with 4 notches on S. and 5 notches on E. edges and raise a mound of stone 2 ft base 1 1/2 ft high W. of cor.
	Pits impracticable
	Land, mountainous & rolling
	Soil, rocky and sandy 4th rate
	No Timber, shadscale and greasewood undergrowth on 80.00 chs.
	Mountainous land on 34.00 chs.
	Oct. 14 at this cor. I set off 7° 57' S. on the decl. arc; and, at 12h 00m m. observe the sun on the meridian, the resulting lat. is 40° 14' N. or within 1' of the proper lat.

Subdivisions of T. 3 S. R. 1 E.

Chains	
	East on a random line bet secs. 8 and 17
40.00	Set temp 1/4 sec. cor.
79.84	Intersect the N and S. line at the cor. of secs. 8, 9, 16 and 17
	Thence I run
	West on a true line bet. secs. 8 and 17
	Ascend gradually through shadscale undergrowth
9.80	Horse trail bears N. and S.
20.50	Horse trail bears N. W and S. E.
35.30	Begin more abrupt ascent bears N E and S. W.
39.92	Set a cobblerock 14 x 8 x 6 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft base 1½ ft. high N. of cor.
	Pits impracticable
40.30	Top of abrupt ascent 100 ft above beginning, bears N. E and S. W. thence gradual descent over rolling flat.
58.30	Begin more abrupt descent N. E and S. W.
65.80	Bottom of gulch drains N. 30° E. 75 ft. below top of flat, ascend abruptly along S. slope of ridge.
76.80	Top of abrupt ascent 100 ft. above bottom of gulch, thence gradual ascent
79.84	The cor. of secs. 7, 8, 17 and 18
	Land, mountainous
44.54 / 35.30	Soil, rocky and stony 4th rate
	No Timber; shadscale undergrowth on 79.84 chs.
	Mountainous land on 44.54 chs.

	West on a random line bet. secs 7 and 18
40.00	Set temp 1/4 sec. cor.
79.24	Intersect the Mintal Special Meridian 236 lks. S. of the cor. of secs. 7, 12, 13 and 18 which is a sandstone 10 x 8 x 6 ins above ground marked and witnessed as described

Subdivisions of T. 3 S. R. 1 E.

Chains

by the surveyor general
As this falling exceeds the limits
prescribed in the Manual, at my
point of intersection I set
a cobble-rock 18 x 10 x 6 ins. 12 ins in
the ground for closing cor. of secs.
7 and 18 marked C. C. on E. with 2 grooves
on N. and 4 grooves on S. faces; dig
pits, 24 x 18 x 12 ins. crosswise on each
line, N. and S., 3 ft. and E. of stone, 7 ft.
dist.; and raise a mound of earth,
4 ft. base 2 ft. high, E. of cor.
Oct. 14 at 3h 00m p. m. l. m. t. I sit
off 40°14' N. on the lat. arc. 7°57' S. on the
decl. arc; and determine a meridian at
the closing cor. of secs. 7 and 18
after destroying all marks pertaining
to secs. 7 and 18 on the old cor. I run
East on a true line bet. secs. 7 and 18
ascend through shadscale undergrowth
6.20 Top of ridge bears N. W. and S. E. 30 ft
above closing cor. descend
14.20 Dry wash drains N. E. 50 ft. below
top of ridge
18.25 Dry wash drains N. 50 ft below
top of ridge, ascend gradually
29.20 Begin steep ascent bears N. and S.
37.70 Top of steep ascent 100 ft. above beginning
thence gradual ascent.
39.24 Set a cobble-rock 14 x 8 x 6 ins. 9 ins. in
the ground for 1/4 sec. cor. marked 1/4
on N. face; and raise a mound
of stone 2 ft. base 1½ ft high
N. of cor. Pits impracticable
39.50 Top of ridge bears N. E. and S. W.
descend
58.65 Horse trail bears N. E. and S. W.
63.90 Bottom of dry wash drains N. 30° E.
75 ft. below top of ridge ascend
72.20 Top of ridge bears N. E. and S. W.
75 ft above bottom of dry wash. descend

Subdivisions of T. 3 S. R. 1 E.

Chains	
79.24	The cor. of secs. 7, 8, 17 and 18 Land, mountainous Soil, rocky and stony 4th rate No Timber, shadscale undergrowth on 79.24 chs Mountainous land on 79.24 chs. October 14, 1903
	Oct. 15, at 9h 00m a. m. l. m. t. I set off 40°14' N. on the lat. arc; 8°13' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18 Thence I run N. 0°8' W. on a true line bet secs 7 and 8 ascend through shadscale undergrowth
2.50	Top of ridge bears N. E. and S. W. 30 ft. above sec. cor. descend
10.00	Foot of ridge bears N. E and S. W. 60 ft. below top. thence gradual descent.
15.65	Dry wash 10 lks. wide 8 ft. deep drains N. E. begin gradual ascent
25.25	Dry wash 15 lks wide 3 ft. deep drains E.
35.50	Begin abrupt ascent bears E. and W.
39.50	Top of abrupt ascent 50 ft above beginning bears E. and W. thence gradual ascent.
40.00	Set a cobble-rock 14 x 10 x 8 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
42.00	Top of ridge bears E. and W. descend
47.00	Bottom of ravine drains N. 60° E. 75 ft. below top of ridge. ascend
53.00	Top of small ridge bears E. and W. 50 ft above bottom of ravine. descend

gradually
65.50 Begin steep descent bears E. and W.
70.00 Foot of steep descent bears E. and W. 75 ft. below beginning, thence gradual descent.
80.00 Set a cobble-stone 18 X 8 X 6 ins. 12 ins. in the ground for cor. of secs. 5, 6, 7 and 8 marked with 5 notches on S. and E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, mountainous
Soil, rocky and sandy 4th rate.
No Timber, shadscale undergrowth on 80.00 chs.
Mountainous land on 80.00 chs.

East on a random line bet. secs 5 and 8
40.00 Set temp. ¼ sec. cor.
79.80 Intersect the M. and S. line 7 chs. N. of the cor. of secs. 4, 5, 8 and 9.
Thence I run
N. 89° 57' W. on a true line bet. secs. 5 and 8
Descend gently through shadscale and rabbitbush undergrowth
3.20 Dry Wash drains N. ascend
5.80 Dry wash drains N.
11.80 Top of spur projects N. descend
14.75 Foot of spur bears N. and S. 50 ft below top. Thence gradual ascent
17.00 Horse trail bears N. E. and S. W.
39.90 Set a cobble-stone 15 X 8 X 6 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft dist., and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
49.60 Horse trail bears N. and S.

Subdivisions of T. 3 S. R. 16.

Chains	
79.80	The cor. of secs. 5, 6, 7 and 8 Land, nearly level Soil, rocky clay 4th rate No Timber, shadscale and rabbit-brush undergrowth on 79.80 chs. October 15 at this cor. I set off 8°17' S. on the decl. arc. and, at 12h00m m. observe the sun on the meridian the resulting lat. is 40°15' N. or within 1' of the proper lat.
	West on a random line bet. secs. 6 and 7
40.00	Set temp. 1/4 cor.
78.95	Intersect the Uintah Special Meridian 218 lks. S. of the cor. of secs. 1, 6, 7 and 12 which is a sandstone 5 x 7 x 6 above ground marked and witnessed as described by the surveyor general. As this falling exceeds the limits prescribed in the Manual at my point of intersection I set a cobble-rock 15 x 8 x 6 ins 10 ins. in the ground for closing cor. of secs. 6 and 7 marked C. C. on E. with T. groove on N and S on S. faces; dig pits 24 x 18 x 12 ins. crosswise on each line. N and S. 3 ft. and E. of stone, 7 ft. dist. and raise a mound of earth, 4 ft. base 2 ft. high, E. of cor. and destroy all marks pertaining to secs. 6 and 7 on the old cor. Thence I run East on a true line bet. secs. 6 and 7 Descend through shadscale and rabbit brush undergrowth
8.45	Horse trail bears N. and S.
9.15	Dry wash drains N. ascend
24.95	Top of small ridge bears N. and S.

Subdivisions of T. 35 S. R. 16 E.

Chains

60 ft. above bottom of dry wash, descend
32.45 Foot of ridge bears N. and S. thence
gradual descent.
33.45 Horse trail bears N. and S.
38.95 Set a cobble stone 16 x 8 x 8 ins., 11 ins. in
the ground for 1/4 sec. cor. marked 1/4
on N. face; dig pits 18 x 18 x 12 ins. E.
and W. of stone 3 ft. dist. and raise
a mound of earth 3 1/2 ft. base 1 1/2
ft. high N. of cor.
78.95 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous
Soil, sandy 4th rate
32.45/78.95 No Timber, shadscale and rabbit brush
undergrowth on 78.95 chs.
Mountainous land on 32.45 chs.

Oct. 15, 1903 at 3h 00m p. m. l. m. t I set off
40° 15' N. on the lat. arc, 8° 19' S. on the
decl. arc; and determine a meridian
with the solar at the cor. of secs.
5, 6, 7 and 8.
Thence I run
N. 0° 8' W. on a random line bet. secs. 5 and 6
40.00 Set temp. 1/4 sec. cor.
81.54 I intersect the N. bdy. of the township
134.41 chs N 89° 45' W. of the cor. of secs 5, 6, 31 and
32. which is a sandstone 6 x 11 x 6 ins.
above ground marked and witnessed
as described by the surveyor general
as this falling exceeds the limits
prescribed in the manual at my
point of intersection I set
a sandstone 18 x 12 x 8 ins. 12 ins. in
the ground for closing cor. of secs.
5 and 6 marked C. C. on S. with 5
grooves on S. and 1 groove on N. faces;
dig pits 24 x 18 x 12 ins. crosswise on

Subdivisions of T. 3 S. R. 16.

Chains	
	each line E. and W., 3 ft. and S. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, S. of cor. and destroy all marks pertaining to secs. 5 and 6 on the old cor.
	Thence I run
	S. 0° 8' E. on a true line bet. secs. 5 and 6
	Descend gently through dense sage-brush and greasewood undergrowth
22.40	Dry wash 60 lks wide 4 ft. deep drains S. E.
	leave dense sage-brush and greasewood undergrowth N. W and S. E. enter shadscale and greasewood undergrowth N. W and S. E.
29.90	Bottom of Dry gulch. A stream of waste water, from the canals on bench of T. 2 S. R. 16., 25 lks wide 12 ins deep course E. begin gradual ascent.
41.54	Set a cobble-rock 15 x 7 x 6 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
41.90	Dry wash drains E.
45.50	Telephone line from Price to Fort Duchesne bears N. 75° E and S. 75° W.
46.50	Dry wash drains N. E.
53.00	Wagon Road from Price to Vernal bears, N. 75° E and S. 75° W.
56.80	Old road bears E. and W.
81.54	The cor. of secs. 5, 6, 7 and 8
	Land, nearly level
22.40 / 59.14	No Timber; dense sage-brush and greasewood undergrowth on 22.40 chs. shadscale and greasewood undergrowth on 59.14 chs.
	Soil, sandy and clay 4th rate.
	Oct. 15, 1903

Subdivisions of T. 35 S. R. 1 E.

Chain

Oct. 16, 1903 at 8h 00m a. m. l. m. t I set off 40°12' N. on the lat. arc; 8°34' S. on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor. bet. secs. 26 and 27 heretofore described.
Thence I run
N. 0°2' W. on a random line bet. secs. 26 and 27
19.21 Fail 35 lks. E. of the 1/16 cor. set 20.00 chs. S. of the cor. of secs. 22, 23, 26 and 27, which is a sandstone 7x9x8 ins above ground marked and witnessed as described by the surveyor general.
Thence I run
S. 1°00' E. on a true line bet. secs. 26 and 27.
Ascend gently thru shadeale undergrowth
5.20 Begin abrupt ascent bears E. and W.
10.00 Top of abrupt ascent bears E. and W. 50 ft. above beginning thence gradual ascent.
19.21 The 1/4 sec. cor. bet. secs. 26 and 27.
Land, mountainous
Soil, rocky and stony 4th rate
No Timber; shadeale undergrowth on 19.21 chs.
Mountainous land on 19.21 chs.

Oct. 16, 1903 at 10h 00m a. m. l. m. t
I set off 40°12' N. on the lat. arc; 8°37' S. on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor. bet. secs. 28 and 29 which is a sandstone 5x9x5 above ground marked and witnessed as described by the surveyor general
Thence I run
South on a true line bet. secs. 28 and 29

Subdivisions of T. 3. S. R. 1 E.

Chain	
	Ascend gradually through shadscale and greasewood undergrowth
4.15	Horse trail bears N. E. and S. W.
9.40	Begin more abrupt ascent bears N. E. and S. W.
14.60	Point of spur projects S. W. 60 ft. above beginning of more abrupt ascent. descend
17.60	Head of ravine drains W. 20 ft below point of spur, ascend
19.00	Top of ridge bears E. and W. 35 ft. above head of ravine, descend
20.50	Bottom of ravine drains W. 60 ft. below top of ridge, ascend
22.60	Horse trail bears N. W. and S. E. thence along E. side of ravine,
28.50	~~Leave~~ ravine at head thence ascend along N. slope of bench,
40.00	Set temp. cor. of secs. 28, 29, 32 and 33
	Land mountainous
	Soil, sandy and clay 3rd rate
	No Timber; shadscale and greasewood undergrowth on 40.00 chs.
	Mountainous land on 40.00 chs.

	West on a random line bet. secs. 29 and 32
40.00	Set temp. 1/4 sec. cor.
59.38	Intersect the 1/16 cor. set 20.15 chs. E. of the cor. of secs. 29, 30, 31 and 32, which is a sandstone 5 X 10 X 6 ins. above ground marked and witnessed as described by the surveyor general
	Thence I run
	East on a true line bet. secs. 29 and 32
	Ascend gently through shadscale and greasewood undergrowth
4.55	Dry wash drains N.
6.85	Begin steep descent bears N. 80° W and S. 80° E.

Subdivisions of T. 3. S. R. 16.

Chains	
8.00	Bottom of steep descent 15 ft. below beginning. thence along old creek bed.
9? 19.61	Set a cobble-rock 14 x 8 x 6 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. and W. of stone 3 ft. dist. and raise a mound of stone 3 1/2 ft. base 1 1/2 ft. high N. of cor.
21.25	Begin steep ascent over sandstone bluff bears N. E. and S. W. Leave old creek bed N. E. and S. W.
28.10	Top of sandstone bluff bears N. E. and S. W. 200 ft. above beginning of steep ascent. thence gradual descent.
32.45	Begin steep descent bears N. and S.
37.05	Bottom of ravine; drains N. 75 ft. below beginning of steep descent ascend
41.25	Top of ridge bears. N. and S. 75 ft above bottom of ravine.
43.50	Begin steep descent N. and S.
45.35	Bottom of ravine drains N. 40 ft. below top of ridge. ascend
47.00	Top of ridge bears. N. and S. 40 ft. above bottom of ravine
52.35	Begin steep descent bears N and S.
55.25	Bottom of ravine drains N. 70 ft. below beginning of steep descent ascend
59.38	Intersect the temp cor. of secs. 28, 29 32, and 33 where I set a cobble-stone 14 x 8 x 6 ins. 9 ins in the ground for cor. of secs. 28, 29, 32 and 33 marked with 1 notch on S. and 4 notches on E. edges and raise a mound of stone 2 ft base 1 1/2 ft. high W. of cor. Pits impracticable Land mountainous Soil, sandy and rocky 4th rate No Timber; greasewood and shadscale undergrowth on 59.38 chs.

Subdivisions of T. 3 S. R. 1 E.

Chains	
	Mountainous land on 59.38 chs. Oct. 16, 1903 at this cor. I set off 8°39'S. on the decl. arc; and, at 12h00m M.M. observe the sun on the meridian, the resulting lat. is 40°12' N. or within 1' of the proper lat.
	Oct. 16, 1903 at 2h 30m p.m. l.m.t. I set off 40°12' N. on the lat. arc. 8°41' S. on the decl. arc; and determine a meridian with the solar at the 1/16 cor. 20. chs S. of the cor. of secs. 21, 22, 27 and 28, which is a hard sandstone 8×8×5 above ground marked and witnessed as described by the surveyor general
	Thence I run
	South on a true line bet. secs. 27 and 28 ascend gradually through scattering shadscale undergrowth
11.70	Begin steep ascent bears N.E. and S.W.
15.20	Top of steep ascent 40 ft. above beginning thence gradual ascent
18.70	Top of ridge bears N.E. and S.W. descend
20.00	Set a cobble stone 16×8×7 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
22.50	Bottom of gulch drains N.E. 75 ft. below top of ridge, ascend
36.45	Top of ridge bears N.E. and S.W. 100 ft above bottom of gulch, descend
41.95	Bottom of ravine drains E. 50 ft below top of ridge ascend.
44.10	Top of spur projects E. 40 ft above bottom of ravine descend

Subdivisions of T. 3 S. R. 16

Chains	
54.75	Bottom of gulch drains N. 15° E. 40 ft. below top of spur. ascend along E. slope of spur projecting N.
60.00	Set temp. cor. of secs. 27, 28, 33 and 34 Permanent cor. afterwards set at 60.00 chs. ½ line bet secs 28 & 33
	Land, mountainous . . . . .
	Soil, sandy and stony 4th rate. . . .
	No Timber, shadscale undergrowth on 60.00 chs. Mountainous land on 60.00 chs.
	West on a random line bet. secs. 28 and 33
40.00	Set temp. ¼ sec. cor.
79.90	Fall 28 lks. S. of the cor. of secs. 28, 29, 32 and 33.
	Thence I run S. 89° 48' E. on a true line bet secs. 28 and 33 ascend gently.
2.50	Top of ridge bears N. E. and S. W. 15 ft. above sec. cor.
2.75	Begin step descent bears N. E and S. W.
17.00	Bottom of gulch drains N. 175 ft below top of ridge, ascend
17.50	Horse trail bears N. and S.
35.50	Top of ridge bears N. E and S. W. 150 ft. above bottom of gulch
37.50	Descend from ridge bears N. E and S. W.
39.95	Set a cobblestone 14 x 8 x 6 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
40.70	Begin step descent N. E. and S. W.
49.70	Bottom of gulch drains N. E. 150 ft. below top of ridge, ascend
52.00	Top of spur projects N. 30 ft. above bottom of gulch. descend
56.50	Bottom of gulch drains N. W. 30 ft. below top of ridge, ascend
66.00	Begin gradual ascent bears N. W and S. E.

Subdivisions of T. 3 S. R. 1 E.

Chains	
69.40	Horse trail bears N. and S.
71.00	Top of ridge bears N. W. and S. E. descend
76.65	Bottom of gulch drains N. 15° E. 50 ft. below top of ridge ascend
78.25	Top of spur projects N. 50 ft. above bottom of gulch
79.50	Descend from spur.
79.90	Intersect temp cor. of secs. 27, 28, 33 and 34 Set a cobble stone 18 x 8 x 6 ins. 12 ins in the ground for cor. of secs. 27, 28, 33 and 34 marked with 1 notch on S. and 3 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land mountainous Soil rocky and stony 11th rate No timber Mountainous land on 79.90 ch.
	East on a random line bet. secs. 27 and 34
40.00	Set temp ¼ sec. cor.
81.00	Intersect N. and S. line 80 lks. S. of the cor. of secs. 26, 27, 34 and 35. As this falling exceeds the limits prescribed in the manual, at my point of intersection I set A cobble-rock 14 x 10 x 8 ins. 9 ins. in the ground for closing cor. of secs. 27 and 34 marked C. C. with 4 grooves on W. and 1 groove on S. faces; dig pits 24 x 18 x 12 ins. crosswise on each line, N. and S.; 3 ft. dist. and W. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high W. of cor. and destroy all marks pertaining to secs. 27 and 34 on the old cor. Thence I run West on a true line bet. secs. 27 and 34 Descend gently over rolling plateau through shadscale and rabbit-brush undergrowth
15.75	Begin steep descent bears N. E. and S.

Subdivisions of T. 3 S. R. 1 E.

Chains	
17.00	Bottom of gulch drains N. 75 ft. below beginning of steep descent, ascend
22.00	Begin abrupt ascent bears N.E. and S.W.
25.15	Horse trail bears N. and S.
26.00	Top of abrupt ascent bears N.E. and S.W. 100 ft. above bottom of gulch thence gradual descent.
38.15	Horse trail bears N. and S.
39.80	Head of ravine drains N.
41.00	Set a cobble-rock 16 x 10 x 8 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
46.50	Head of ravine drains N.E.
53.50	Begin more abrupt descent bears N. and S.
55.75	Horse trail bears N. and S.E.
57.50	Bottom of gulch drains N. 75 ft. below beginning of more abrupt descent, ascend abruptly
60.00	Horse trail bears N. and S.
68.40	Top of abrupt ascent 60 ft. above bottom of gulch, bears N.E. and S.W. ascend gradually
75.00	Top of ridge bears N. and S. descend
78.35	Bottom of gulch drains N. 40 ft. below top of ridge, ascend
81.00	The cor. of secs. 27, 28, 33 and 34

Land mountainous
Soil, rocky and stony 4th rate
No Timber, shadscale and rabbit-brush undergrowth on 81.00 chs.
Mountainous land on 81.00 chs.
Oct. 16, 1908.

Oct. 17 at 8h 00m a.m. l.m.t. I set off 40° 11' N. on the lat. arc. 8° 57' S. on the decl. arc; and determine a meridian with the solar at the 1/4 sec. cor.

Subdivisions of T. 3 S. R. 1 E.

Chains	
	bet. secs. 31 and 32 heretofore described.
	Thence I run
	South on a random line bet. secs 31 and 32
40.36	I intersect the South Bdy of the
	township 67 lks. S. 89° 44' W of cor. of secs.
	5, 6, 31 and 32 heretofore described.
	As this falling exceeds the limits
	prescribed in the Manual, at my point
	of Intersection I set
	A sandstone 20 x 12 x 10 ins 15 ins in
	the ground for closing cor. of secs.
	31 and 32 marked C. C. on N. with
	5 grooves on E and 1 groove on W.
	faces, and raise a mound of stone
	2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
	I destroy all marks pertaining
	to secs. 31 and 32 upon the old
	cor.
	Thence I run
	North on a true line bet. secs. 31 and 32
	Over gradual ascending land
2.30	Horse trail bears E and W.
2.50	Begin steep ascent over rough
	sandstone bluff
32.00	Top of bluff bears N 75° W and
	S. 75° E. 250 ft above beginning
	of steep ascent.
35.00	Begin steep and rocky descent
	bears E. and W.
40.36	The ¼ sec. cor. bet. secs. 31 and 32
	This ¼ sec. cor. is 200 ft below
	top of bluff.
	Land Mountainous
	Soil, clay and rocky 4th rate
	No timber
	Mountainous land on 40.36 chs.

Subdivisions of T. 3 S. R. 16.

Chains	
	Oct. 17 1903 at 10h 00m a. m. l. m. t. I set off 40° 12' N. on the lat. arc. 8° 57' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 28, 29, 32 and 33
	Thence I run
	South on a random line bet. secs. 32 and 33
40.00	Set temp 1/4 sec. cor.
80.00	I intersect the South Bdy. of the Tp 114 lks S. 89° 44' W. of the cor. of secs. 4, 5, 32 and 33 heretofore described. As this falling exceeds the limits prescribed in the Manual, at my point of intersection I set a cobble rock 15 x 7 x 6 ins. 10 ins. in the ground for closing cor. of secs. 32 and 33 marked C. C. on N. with 4 grooves on E. and 2 grooves on W. faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable I destroy all marks pertaining to secs. 32 and 33 on the old cor.
	Thence I run
	North on a true line bet. secs. 32 and 33
	Descend
2.00	Bottom of gulch drains N. W. 30 ft. below closing cor., ascend.
4.00	Top of small ridge bears N. 75° W. and S. 75° E. 20 ft. above bottom of gulch descend,
8.35	Bottom of gulch drains N. W. 25 ft. below top of ridge, ascend abruptly
22.00	Top of sandstone bluff bears E. and W. 50 ft above bottom of gulch, descend
24.25	Dry wash drains N. W. 40 ft. below top of sandstone bluff. ascend
26.20	Dry wash 15 ft. deep drains N. 75° W. thence N.
36.50	Dry wash 20 ft. deep drains W. thence ascend over rough broken country

Subdivisions of T. 35 S. R. 1 E.

Chains	
39.50	Begin step ascent bears N.E and S.W.
40.00	Set a cobble stone 14 x 8 x 6 ins. 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
43.00	Top of step ascent bears N.E and S.W. 125 ft. above beginning thence gradual ascent.
43.90	Top of ridge bears N.E and S.W. begin step descent.
55.25	Bottom of dry wash drains S.W. 150 ft. below top of ridge ascend gradually
65.00	Begin step ascent bears N.E and S.W.
73.00	Top of step ascent bears N.E and S.W. ascend gently. 125 ft above beginning of step ascent
79.00	Top of ridge bears N.E and S.W. descend
80.00	The cor. of secs. 28, 29, 32 and 33
	Land, mountainous
	Soil, stony 4th rate
	No timber
	Mountainous land on 80.00 chs.
	Oct. 17, 1903 at this cor. I set off 9°01' S, on the decl. arc; and, at 12h00m M, observe the sun on the meridian, the resulting lat is 40°12' N or within 1' of the proper lat.
	Oct. 17, 1903 at 3h00m p.m. l.m.t. I set off 40°12' N, on the lat. arc; 9°03' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34
	Thence I run
	South on a random line bet. secs. 33 and 34
40.00	Set temp. 1/4 sec. cor.

Subdivisions of T. 35 S. R. 16 E.

Chains	
79.50	I intersect the South Bdy. of the Tp. 125 lks. S 89°44' W of the cor. of secs 3, 4, 33 and 34 heretofore described. As this falling exceeds the limits prescribed in the Manual at my point of Intersection I set a sandstone 16 x 10 x 8 ins 11 ins. in the ground for closing cor. of secs. 33 and 34 marked C. C. on N. face; with 3 grooves on E. and W. faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable I. destroy all marks pertaining to secs. 33 and 34. on the old cor. Thence I run North on a true line bet. secs. 33 and 34 ascend
3.00	Top of spur projects E. 50 ft. above closing cor. descend
9.80	Bottom of ravine drains N. W. 75 ft. below top of spur. ascend
11.70	Top of spur projects N. W. 30 ft. above bottom of ravine, descend
15.00	Bottom of ravine drains N. W. 40 ft below top of spur. ascend
15.90	Top of spur projects W. 40 ft. above bottom of ravine. descend.
24.80	Dry wash drains N. E. 75 ft. below top of spur, ascend gradually
32.00	Top of ridge bears N. E and S. W. descend
33.85	Bottom of ravine drains W. 25 ft. below top of ridge
34.80	Begin ascent bears E. and W.
36.10	Top of knoll 50 ft. above beginning of ascent.
39.50	Set a cobble-rock 14 x 8 x 6 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

Subdivisions of T. 3 S. R. 1 E.

Chains	
42.75	Bottom of gulch drains N. E. 75 ft. below top of knoll, ascend
50.00	Top of ridge bears N. E. and S. W. 50 ft. above bottom of gulch, descend
56.60	Horse trail bears N. E. and S. W.
58.90	Bottom of dry wash drains N. E. 100 ft. below top of ridge thence descend along E slope of ridge
68.05	Horse trail bears N. E. and S. W.
79.50	The cor. of secs. 27, 28, 33 and 34
	Land, mountainous
	Soil, stony and sandy 4th rate
	No timber
	Mountainous land on 79.50 chs.
	Oct. 17, 1903

General Description

This portion of the township contain practically nothing but rocky, stony and sandy soil, forth rate upon which nothing but shadscale, greasewood and sagebrush undergrowth grows. There is a small growth of grass upon the bench land in sec. 34 and affords pasturage to small bands of Indian horses.

In this township, and separating these two portions of it, is the DuChesne Valley of which the soil is nearly all loam of the first rate and is covered with a dense growth of willows and cotton-wood timber.

Some indian farms are found in this valley and the canal running through secs. 15 and 16 is for the purpose of Irrigating these farms and some more farms farther down the valley.

The lands of these portions of this township is very dry and cannot be reached by canals on account of

Subdivisions of T. 3 S. R. 16.

Chains

the rough and broken formation of the surface.

The canal shown running through secs. 1 and 2 comes from the Uintah River and is used to irrigate some indian farms farther ~~south east~~

There are no indications of mineral of any kind upon the township

Harry Rogers
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 Harry Regan, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of T. 3 S. R. 1 E. of the Utah Meridian, showing the respective capacities in which they acted:

A. B. Larson, Chainman.
Edward McKee, Chainman.
Robert Douglas, Moundman.
, Moundman.
, Axman.
, Axman.
C. E. Whitman, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Regan, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Township No. 3 South Range No. 1 East, of the Utah Special 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.

A. B. Larson, Chainman.
Ed. Edward McKee, Chainman.
Robt Douglas, Moundman.
, Moundman.
, Axman.
, Axman.
C. E. Whitman, Flagman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~.

SEAL

Harry Regan
U. S. Deputy Surveyor.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, 1903, ~~189~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivision lines of Township No. 3 South Range No. 1 East

of the United States Special 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.

Harry Rager
United States Deputy Surveyor

Subscribed by said Harry Rager, and sworn to before me this 28th day of January, 1904

Edward H. Anderson
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30, 1904, ~~189~~

The foregoing field notes of the survey of the subdivisional lines of Township 3 South Range 1 East of the United States Special Base & Meridian, Utah

executed by Robert E. Collier and Harry Rager under his contract No. 269, dated July 22 1903, ~~189~~, 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-306

FIELD NOTES

OF THE SURVEY OF THE

H.3.B.

Retracement Lines

on

North Boundary

of

Township No. 3 South Range No. 1 East

Of the Uintah Special Base and Meridian,

Inth State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22 1903, ~~189~~

~~Survey~~ Retracement commenced Oct 18 1903, ~~189~~

~~Survey~~ Retracement completed Oct 18 1903, ~~189~~

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Conv. Fr. 79-90

BOOK A-306

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larsen	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whitsman	Flagman

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BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee

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~~ Retracement Lines on N. Bdy of T. 3 S. R 1 E of the Uintah Special Base and Meridian Utah

A B Larson, *Chainman.*

Edward McKee, *Chainman.*

Subscribed and sworn to before me this 4th day of September 1903, ~~189~~

SEAL

Henry R. McAthiron
Notary Public

~~WE,~~ I Robt Douglas ~~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~~ Retracement Lines on N. Bdy of T. 3 S R 1 E of the Uintah Special Base and Meridian Utah

Robt Douglas, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 4th day of September 1903, ~~189~~

SEAL

Henry R. McAthiron
Notary Public

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 o

, *Axman*

, *Axman*

Subscribed and sworn to before me this
day of , 189

SEAL

I, C. E. Whiteman, 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~~ Retracement Lines on N. Bdy. of T. 3 S R 1 E of the Uinta Special Base and Meridian, Utah

C E Whiteman, *Flagman*

Subscribed and sworn to before me this 4th day of September 1903, ~~189~~

SEAL

Henry R. McAthiron
Notary Public

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Retracement of N. Bdy of T. 3 S R 1 E.

Chains

Survey commenced Oct 18 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment, for a description of which see Notes of retracement and resurvey of subdivisions of T. 2 S. R 1 E in Book "a" As the instrument was examined and solar apparatus checked by polaris observation Oct 11 1903 I do not deem it necessary to make another test therefore I proceed as follows;

To check the closings of secs. 4, 5 and 6 in T. 3 S. R 1 E. and to account for the discrepancy in the length of the lines running North bet. secs. 4 and 5 and 5 and 6 I begin at the cor. of secs. 1, 2, 35 and 36 on the N. Bdy. of T. 3 S. R 1 E. heretofore described

Thence I run

West on a retracement line bet. secs. 2 & 35

19.98 Fall 9 lks. S. of the 1/16 sec. cor. which is a sandstone 8 x 7 x 6 ins. above ground marked and witnessed as described by the surveyor general

39.96 Fall 17 lks. S. of the 1/4 sec. cor. which is a sandstone 6 x 13 x 7 ins. above ground marked and witnessed as described by the surveyor general

59.94 Fall 26 lks. S. of the 1/16 sec. cor. which is a sandstone 8 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general

79.92 Fall 35 lks. S. of the cor. of secs. 2, 3, 34 and 35 which is a sandstone 7 x 12 x 10 ins. above ground marked and witnessed as described by

Retracement of N. Bdy. of T. 3 S R 16,

Chains

the surveyor general.
The course of this line is therefore N. 89°45' W. and is 79.92 chs. in length

West on a retracement line bet secs. 3 and 34

20.01 Fall 9 lks. S. of the 1/16 sec. cor. which is a sandstone 6 x 10 x 8 ins. above ground marked and witnessed as described by the surveyor general

40.02 Fall 17 lks. S. of the 1/4 sec. cor. which is a sandstone 6 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general

60.03 Fall 26 lks. S. of the 1/16 sec. cor. which is a sandstone 5 x 9 x 5 ins. above ground marked and witnessed as described by the surveyor general

80.04 Fall 35 lks. S. of the cor. of secs. 3, 4, 33 and 34 which is a sandstone 8 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general
The course of this line is therefore N. 89°45' W. and is 80.04 chs. in length.

Oct. 18 1903 at 10h 00m a.m. l.m.t. I set off 40°16' N on the lat arc; 9°21' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34
Thence I run.

Retracement of North Bdy. of T. 35 R. 16

Chains	
	West on a retracement line bet. secs. 4 and 33.
20.00	Fall 9 lks. S. of the 1/16 sec. cor. which is a sandstone 5 x 12 x 5 ins. above ground marked and witnessed as described by the surveyor general
40.00	Fall 17 lks. S. of the 1/4 sec. cor. which is a sandstone 6 x 10 x 4 ins. above ground marked and witnessed as described by the surveyor general
60.00	Fall 26 lks. S of the 1/16 sec. cor. which is a sandstone 7 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general
80.00	Fall 30 lks. S. of the cor. of secs. 4, 5, 32 and 33 which is a sandstone 8 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefor N. 89°45' W. and is 80.00 chs. in length,
	West on a retracement line bet secs. 5 and 32,
19.98	Fall 6 lks. S. of the 1/16 sec. cor. which is a sandstone 9 x 10 x 7 ins. above ground marked and witnessed as described by the surveyor general
39.95	Fall 12 lks. S. of the 1/4 sec. cor. which is a sandstone 5 x 9 x 7 ins. above ground marked and witnessed as described by the surveyor general
59.92	Fall 17 lks. S. of the 1/16 sec. cor. which is a sandstone 5 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general

Retracement of N. Bdy. of T. 3 S R 1 E.

Chains	
79.90	Fall 23 lks. S. of the cor. of secs. 5, 6, 31 and 32 which is a sandstone 5 x 11 x 6 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefore N. 89° 50' W. and is 79.90 chs. in length,
	West on a retracement line bet. secs. 6 and 31
20.01	Fall 9 lks. S. of 1/16 sec. cor. which is a sandstone 8 x 11 x 5 ins. above ground marked and witnessed as described by the surveyor general
40.02	Fall 17 lks. S. of the 1/4. sec. cor. which is a sandstone 5 x 7 x 5 ins. above ground marked and witnessed as described by the surveyor general
60.03	Fall 26 lks. S. of the 1/16 sec. cor. which is a sandstone 7 x 10 x 6 ins. above ground marked and witnessed as described by the surveyor general
80.04	Fall 35 lks S. of the cor. of Tps. 2 and 3 S, Rs. 6 and 1 W, which is a sandstone 8 x 14 x 8 ins. above ground marked and witnessed as described by the surveyor general. The course of this line is therefore N. 89° 45' W and is 80.04 chs. in length,

Oct 18 1903

For General Description see Notes of Subdivisions of T. 3 S. R 1 E in Book "M."

Harry Roger
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 Harry Rager, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement Lines of North Boundary of T. 3 S. R 1 E. of the Uintah Special Base and Meridian, Utah showing the respective capacities in which they acted:

A B Larson, *Chainman.*

Edward McKee, *Chainman.*

Robt Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C E Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rager, United States Deputy Surveyor, in surveying all those parts or portions of the Retracement Lines of North Bdy, of T 3 S R 1 E, of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced 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

A B Larson, *Chainman.*

Edward McKee, *Chainman.*

Robt Douglas, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

C E Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

Harry Rager
U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July 1903, ~~189~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement on M. Bdy of T. 3 S R 1 E

of the Uintah Special 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; 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January 1904 189

Edward H Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah June 30 1904, 189

The foregoing field notes of the survey of retracement The Ninth Boundary of Township 3 South Range 1 East of the Uintah Special Base & Meridian Utah

executed by Robert E. L. Collier & Harry Rager under ~~his~~ his contract No. 269, dated July 22 1903, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~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.

U. S. Deputy Surveyor

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BOOK A-306

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JAN 28 1904

FIELD NOTES

OF THE SURVEY OF THE

South Boundary

of

Township No 3 South Range No. 2 East

Of the Mentah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyors,

Under ~~his~~ their Contract No. 269, dated July 22, ~~189~~ 1903

Survey commenced October 18, ~~189~~ 1903

Survey completed October 19, ~~189~~ 1903

Graph. 0.60.90

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. W. Lutman	Flagman

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BOOK A-306

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Township No. 3 South, *Range* No 2 East

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee 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 South Boundary of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

A. B. Larson, *Chainman.*

Edward McKee, *Chainman.*

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Mathieson
Notary Public

~~WE,~~ I Robert Douglas ~~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 South Bdy. of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

Robt Douglas, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Mathieson
Notary Public

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, C. E. Whiteman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South Bdy. of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Mathieson
Notary Public

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Chains

South Boundary of T. 3 S. R. 2 E.

Survey commenced Oct. 18, 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment. For a description of instrument and tests see notes of Retracement lines of T. 2 S. R. 1 E. in Book A. I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a. m and p. m. hours, with a meridian determined by observations on Polaris I proceed as follows;

At the 1/16 cor. set 20 chs. W. of the cor. of secs. 3, 4, 33 and 34 on the South bdy. of T. 3 S. R. 2 E latitude 40° 10' 41" N. longitude 109° 48' 24" W.; I set off 40° 11' N. on the lat. arc, 9° 25' S. on the decl. arc; and at 3h 00m 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 corner. October 19, 1903 at 5h 30m a. m. by my watch, which is 4m 00s slow 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 19 at 8h 00m a. m. l. m. t. I set off the azimuth of Polaris, 1° 35' to the East, and and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 18 on which the meridian falls 0.3 ins. east of

South Bdy. of T. 35 R. 2 E.

Chain

the mark determined by the solar at $9^h 00^m$ a.m. l.m.t. I set off 40°11' N. on the lat. arc 9°41' 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, defines positions for meridians respectively about 0'16" west and 0'16" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearing of the true meridian at $9^h 00^m$ a.m. is N. 16°00' W. the angle thus determined gives the magnetic decl. 16°00' E.

From the 1/16 cor. set 20 chs. W. of the cor. of secs. 3, 4, 33 and 34 which is a a sandstone 7 x 10 x 7 ins. above ground firmly set, and marked and witnessed as described by the surveyor general.
I run
West on a random line bet. secs. 4 and 33
20.00 Set temp 1/4 sec. cor.
60.90 Pass 10 lks. N. of the cor. of secs. 4, 5, 32 and 33 which is a sandstone 6 x 9 x 6 ins. above ground marked and witnessed as described by the surveyor general.
Thence I run
N. 89°54' E. on a true line bet secs. 4 and 33
Over level surface along top of bench
140 Begin abrupt descent from bench bears

South Bdy. of T. 35. R. 2 E.

Chains	
	N. and S.
2.90	Bottom of ravine drains N. 30 ft. below top of bench. ascend
4.40	Top of spur projects N. 30 ft above bottom of ravine. descend abruptly
10.40	Bottom of steep descent 200 ft below top of spur bears N. and S. descend along rocky broken country.
18.90	Enter gulch drains East thence along bottom of same
39.90	Leave gulch drains S. 80° E. thence along steep N. slope of gulch.
40.90	Set a cobble-rock 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
57.00	Bottom of gulch drains N. E. thence ascend
60.90	The 1/16 sec. cor. bet. secs. 4 and 33

Land mountainous
Soil, rocky and stony 4th rate
No timber
Mountainous land on 60.90 chs.
October, 19th At this cor. I set off 9°46' S. on the decl. arc. and, at 12h 00m P.M. observe the sun on the meridian. the resulting lat. is 40°11' N. or within 1' of the proper lat.

October 19 - 1903

For a general description of T. 3 S. R. 2 E. See notes of subdivision lines of same.

Harry Rager
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of South Boundary of T. 3 S R 2 E. Uintah Special B. and M. Utah showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the South Boundary of Township No. 3 South Range No. 2 East, of the Uintah Special 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

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 22nd day of July, 1903, 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 South Boundary of Township No 3 South Range No 2 East

of the Utah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Ut. June 3, 1904

The foregoing field notes of the survey of The South Boundary of Township 3 South Range 2 East of the Utah Special Base and Meridian Utah

executed by Robert E. Collier & Harry Rager under his contract No. 269, dated July 22, 1903, 189 , 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-306

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JAN 28 1904

FIELD NOTES

OF THE SURVEY OF THE

Resurvey of Subdivision Lines

of

Township No. 3 South Range No. 2 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rager, United States Deputy Surveyor,

Under ~~his~~ this Contract No. 269, dated July 22, 1903 ~~189~~

Survey commenced October 19, 1903 ~~189~~

Survey completed October 20, 1903 ~~189~~

6—151

high 1-30.00

low 30.00

ascend over broken country

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

6—151

BOOK A-306

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ascend over broken country

PRELIMINARY OATHS OF ASSISTANTS.

We, A. B. Larson and Edward McKee 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 Resurvey of Subdivisions of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

A. B. Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry B. Mathieson
Notary Public

I ~~We~~ Robert Douglas ~~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 Resurvey of Subdivisions of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

Robt Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry B. Mathieson
Notary Public

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, C. E. Whiteman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Resurvey of Subdivisions of T. 3 S. R. 2 E. of the Uintah Special Base & Meridian Utah

C. E. Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry B. Mathieson
Notary Public

Chains | Resurvey of Subdivisions of T. 3 S. R. 26.

Survey commenced October 19, 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment, for a description of which see Notes of Retracement of subdivision lines of T. 2 S. R. 16. in Book "A"
As the instrument was examined, corrected, and tested Oct 18. 1903. for description of which see Book "O" I do not deem it necessary to take another Polaris observation therefor
I proceed as follows:
At the N. E. Cor. of the Ouray Indian School Church yard which was said to be the location of the 1/4 sec. cor. bet. secs. 7 and 8, before the fence around the church yard was built, by old settlers.
October 19 at 3h 00m p.m. l. m. t. I set off 40° 15' N. on the lat. arc, 9°47'S. on the decl. arc; and determine a meridian with the solar . . .
Thence I run
South on a random resurvey line bet secs. 7 and 8
40.00 Intersect the cor. of secs. 7, 8, 17 and 18 which is a sandstone 16x10x8 ins. above ground marked and witnessed as described by the surveyor general
Thence I run
North on a true line bet secs. 7 and 8
Along W. bank of the Uintah River through dense willow undergrowth and scattering cottonwood timber ascending gradually
20.50 Leave left bank of the Uintah River thence ascend through bottom land
29.00 Leave dense willow undergrowth and scattering cottonwood timber E. and W.
30.00 Leave bottom land E. and W. thence ascend over broken country

Resurvey of Subdivision of T. 35 R. 26.

Chains	
34.00	Intersect the S.E. Cor. of the Ouray Indian School Churchyard
40.00	Intersect the N.E. Cor. of the Ouray Indian School Churchyard
20/10	Set a cobble-rock 14×10×6 ins. 9 ins. in the ground for reestablished 1/4 sec. cor. marked 1/4 on W. face; dig pits 18×18×12 ins. N. and S. of stone 3 ft. dist.: and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
	From this cor. the N.E. Cor. of Church in churchyard bears S. 75 W. 4 ch.
	Land, Mountainous
	Soil, loam and hard clay 1st and 4th rates
	Undergrowth, dense willows on 29.00 chs.
	Timber, scattering cottonwoods on 29.00 chs.
	Mountainous land on 10.00 chs.

As no marks could be found on the cor. of secs. 5, 6, 7 and 8 which is a sandstone 8×11×6 ins. above ground, to identify it by I run

East on a random resurvey line bet. secs. 5 and 8

40.00	No trace of old 1/4 sec. cor. could be found
	Set temp. 1/4 sec. cor.
80.00	Intersect N. and S. line 10 lks. N. of the cor. of secs. 4, 5, 8 and 9 which is a sandstone 8×16×12 ins. above ground marked and witnessed as described by the surveyor general
	Hence I run
	N. 89°56' W. on a true line bet. secs. 5 and 8
	Descending over rough stony ground
6.50	Bottom of gulch drains N. 75 ft. below corner, ascend
8.00	Top of ridge bears N. and S. 50 ft. above bottom of gulch.

Resurvey of subdivisions of T. 3 S. R. 2 E.,

Chains	
10.50	Descend from ridge bears N. and S.
20.00	Bottom of gulch drains N. 75 ft. below top of ridge ascend over rough and broken country
40.00	Set a sandstone 16 x 10 x 10 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable
43.50	Top of ridge bears N. and S. 200 ft. above bottom of gulch, descend
49.50	Bottom of ravine drains N. 40 ft below top of ridge, ascend over broken country.
77.00	Top of ridge bears. N. and S. 50 ft. above bottom of ravine descend
80.00	The cor. of secs. 5, 6, 7 and 8 which I remark with 5 notches on S. and E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land mountainous Soil, sandy and rocky 4th rate. No timber Mountainous land on 80.00 chs. Oct. 19 1903

October 20 - At 9h 00m a.m. l.m.t I set off 40°12'N. on the lat. arc 10°03'S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29 which is the nearest corner to the 1/16 cor. set 20 chs. S. of this cor. which could not be found in the radius of 5 chs.

Thence I run

South on a true resurvey line bet. secs. 28 and 29

Over rocky broken country along East slope of foot-hills

20.00	At the point for 1/16 sec. cor. I find

Chain

Resurvey of Subdivisions of T. 35 R. 26.

the old corner which is a sandstone 14 x 10 x 4 properly marked but completely buried therefore I dig it up and reestablish it and dig pits 18 x 18 x 12 in. N. and S. of stone and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

Land, mountainous

Soil, sandy and rocky 3rd rate

No timber

Mountainous land on 20.00 chs.

Oct. 20, 1903

For General Description See Notes of Subdivision lines of this township

Harry Rager
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 Harry Rogers, 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~~ Resurvey of subdivisions of T. 3 S., R. 2 E. of the Uintah Special Base & Meridian Utah showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the Resurvey of subdivisions of Township No 3 South Range No 2 East of the Uintah Special Base & 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.

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whiteman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

Harry Rogers
U. S. Deputy Surveyor

NEAL

6—161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July, ~~189~~ 1903, 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 Subdivisions of Township No. 3 South, Range No. 2 East of the Uintah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January, 1904

Edward H. Anderson
U.S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the survey of Subdivisions of Lines of Township 3 South Range 2 East of the Uintah Special Base & Meridian, Utah

executed by Robert E. McGhie for Harry Rager under his contract No. 269, dated July 22, 1903, 189, 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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JAN 28 1904

BOOK A-306

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision lines

of

Township No. 3 South Range No. 2 East

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 269, dated July 22, 1903 ~~189~~

Survey commenced October 31, 1903 ~~189~~

Survey completed October 22, 1903 ~~189~~

6—151

Length 4-06-82

Corn 12 60

NAMES AND DUTIES OF ASSISTANTS.

A. B. Larson	Chainman
Edward McKee	Chainman
Robert Douglas	Moundsman
C. E. Whiteman	Flagman

6—151

Volume

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R0306

BOOK A-306

INDEX DIAGRAM.

Township No 3 South, *Range* No 2 East

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, A. B. Larson and Edward McKee 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 Subdivision Lines of T. 3 S., R. 2 E., of the Uinta Special Base & Meridian, Utah

A. B. Larson, Chainman.

Edward McKee, Chainman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Atkinson
Notary Public

~~WE,~~ I Robert Douglas ~~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 Subdivision lines of T. 3 S., R. 2 E., of the Uinta Special Base & Meridian, Utah

Robt Douglas, Moundman.

, Moundman.

Subscribed and sworn to before me this 4th day of September 1903

SEAL

Henry R. Atkinson
Notary Public

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, C. E. Whiteman, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision Lines of T. 3 S., R. 2 E., of the Uinta Special Base & Meridian, Utah

C. E. Whiteman, Flagman.

Subscribed and sworn to before me this 4th day of September, 1903

SEAL

Henry R. Atkinson
Notary Public

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Subdivisions of T. 35 S. R. 26 E.

Chains	
	Survey commenced Oct. 21 1903 and executed with a W. and L. E. Gurley light mountain transit with solar attachment (not numbered) for a description of which, see notes of Retracement of Subdivision lines of T. 25 S. R. 16 E. in Book "C"
	As the Instrument was examined corrected, and tested Oct 18. 1903 I do not deem it necessary to take another Polaris observation therefore I proceed as follows
	At the re-established ¼ sec. cor. bet. secs. 7 and 8 I set off 46°15'N. on the lat. arc; 10°23'S, on the decl. arc; and at 8h 00m a.m. l.m.t. determine a meridian with the solar
	Thence I run
	North on a true line bet. secs. 7 and 8
	Ascend
0.50	Wagon Road Fort DuChesne to Ouray Agency bears N. 60° W and S. 60° E.
1.90	Canal 15 lks wide 8 in deep course S. 60° E.
8.40	Begin rough and precipitous ascent over sandstone boulders and ledges bears E. and W.
23.75	Top of cliff 30 ft high bears E. and W.
28.90	Top of rough and precipitous ascent bears E. and W. 100 ft above beginning ascend
36.40	Top of ridge bears E. and W. descend over rough broken country
39.41	Intersect the re-established cor. of secs. 5, 6, 7 and 8 heretofore described
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 39.41 Chs.

Subdivisions of T. 35 S. R. 2 E.

Chains

West on a random line bet. secs. 6 and 7

40.00 Set temp. 1/4 sec. cor.

59.90 Intersect the 1/16 sec. cor. set 20 lks. E. of the cor. of secs. 1, 6, 7 and 12 and which is a sandstone 6 x 7 x 6 ins. above ground marked and witnessed as described by the surveyor general

October 21 at 10h 00m a.m. l.m.t. I set off 40°15' N. on the lat. arc 108°26' S. on the decl. arc; and determine a meridian with the solar at the 1/16 cor. bet. secs. 6 and 7.

Thence I run

East on a true line bet. secs. 6 and 7.

0.15 Canal 20 lks. wide 3 ft. deep course S. E. ascend

4.00 Begin rough and precipitous ascent over sandstone cliffs and boulders bears N. and S.

19.90 The place for 1/4 sec. cor. falls on steep slope and could not be set.

22.15 Top of cliff 30 ft. high also top of rough and precipitous ascent 250 ft. above beginning ascend gradually

Set a sandstone 30 x 8 x 8 ins. 23 ins. in the ground for witness cor. to 1/4 sec. cor. marked W.C. 1/4 on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.

Pits impracticable

27.00 Begin steep and precipitous ascent bears N. and S.

29.50 Top of steep and precipitous ascent bears N. and S. 100 ft. above beginning thence ascend more gradually

39.50 Top of ridge bears N. and S. 150 ft. above top of steep ascent. descend

53.00 Bottom of gulch drains N. 200 ft. below top of ridge ascend

59.90 The cor. of secs. 5, 6, 7 and 8.

Chain — Subdivisions of T. 3 S. R. 2 E.

Land, very rough and mountainous
Soil, rocky 4th rate
No timber
Rough mountainous land on 59.90 chs,
October 21 at this cor. I set off
10°28' S. on the decl. arc, and at
12h 00m M. L. M. T. observe the
sun on the meridian the resulting
lat. is 40° 15' N, or within 1' of the
proper lat.

Oct. 21 at 2h 00m p. m. L. M. T. I set
off 40°12' N. on the lat. arc; 10°30' S. on
the decl. arc; and determine a meridian
with the solar at the 1/16 sec. cor.
bet. secs. 27 and 34
Thence I run
East on a random line bet. secs. 27 and 34
20.60 Intersect N. and S. line 5 lks N. of the
cor. of secs. 26, 27, 34 and 35 which is
a sandstone 5 x 8 x 5 above ground
marked and witnessed as described
by the surveyor general.
Thence I run
N. 89° 51' W. on a true line bet. secs. 27 and 34
along top of rolling bend through
shadscale undergrowth
9.20 Begin descent bears N. and S.
10.50 Bottom of descent 50 ft below beginning
bears N. and S. leave shadscale
undergrowth enter dense willow
undergrowth and cottonwood timber, bears
N. and S.
18.40 Left bank of the Uintah River
2.10 chs. wide 10 ins deep course S. E.
20.50 Right bank of the Uintah River
20.60 The 1/16 cor. bet secs. 27 and 34.
8 / 12.60 Land, level

Subdivisions of T. 3 S. R. 2 E.

Chain

Soil, sandy loam 2nd rate
Timber; Cottonwoods on 7.10 chs.
Dense willow undergrowth on 8.00 chs.
shadscale undergrowth on 10.50 chs.

Oct 21 at 3h00m p.m. sky overcast obs. impossible
From the cor. of secs. 4, 5, 32 and 33 on N. Bdy. of Tp.
heretofore described I run
North on a random line bet secs 32 and 33
40.00 Set temp 1/4 sec. cor.
80.00 Set temp cor. of secs. 28, 29, 32 and 33
Thence I run
East on a random line bet. secs. 28 and 33
20.51 Fall 11 lks N. of the 1/16 cor. bet.
secs. 28 and 33
Thence I run from the 1/16 cor bet.
secs. 28 and 33 abandoning random
line
West on a true line bet. secs. 28 and 33
Ascend over rocky ground
12.50 Top of spur projects N. 100 ft above
1/16 cor. descend
20.51 Intersect the line bet. secs. 32 and 33
11 lks. N. of the temp. cor of secs.
28, 29, 32 and 33 at which point
I set a sandstone 18 x 8 x 8 ins 12 ins.
in the ground for cor. of secs. 28, 29
32 and 33 marked with 1 notch on
S. and 4 notches on E. edges; and
raise a mound of stone 2 ft base
1½ ft high W. of Cor. Pits impracticable
Land, mountainous
Soil, rocky and stony 4th rate.
No timber
Mountainous land on 20.51 chs.

Subdivisions of T. 3 S. R. 2 E

Chains	
	South on a true line bet. secs. 32 and 33
	Descend gradually
8.50	Bottom of gulch drains S. E. ascend.
13.00	Top of spur projects E. 75 ft above bottom of gulch, descend
24.00	Bottom of gulch drains N. E. 100 ft below top of spur ascend
27.70	Top of ascent bears N. E. and S. W. 100 ft. above bottom of gulch thence along top of bench.
40.00	Set a cobble stone 16 x 9 x 6 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
42.00	Begin descent from flat bears E. and W.
53.00	Bottom of gulch drains E. 150 ft. below top of flat, ascend
58.00	Top of spur projects E. 100 ft above bottom of gulch descend
65.00	Bottom of gulch drains E. 100 ft below top of spur. ascend
73.00	Top of ascent bears E and W. 100 ft above bottom of gulch, thence along top of flat.
80.11	The cor. of secs 4, 5, 32 and 33
	Land mountainous
	Soil, stony and sandy 4th rate
	No timber
	Mountainous land on 80.11 Chs.

	North on a random line bet. secs. 28 and 29
40.00	Set temp. 1/4 sec. cor,
59.39	Fall 67 lks. W. of the restablished 1/16 sec. cor. bet. secs. 28 and 29. Thence I run
	S. 0° 39' W. on a true line bet. secs. 28 and 29
	Ascend gently along E. slope of rough foot hills
9.40	Bottom of dry wash drains E.
14.39	Set a cobble rock 14 x 8 x 6 ins. 9 ins in the ground for 1/4 sec. cor. marked

Subdivisions of T. 3 S. R. 2 E.

Chains

	1/4 on W. face; and raise a mound of stone 2 ft base 1 1/2 ft high W. of Cor. Pits impracticable
26.00	Bottom of dry wash drains E.
36.40	Top of spur projects E. 150 ft above bottom of dry wash, descend
57.40	Bottom of gulch drains E. 100 ft below top of spur, ascend
59.39	The cor. of secs. 28, 29, 32 and 33
	Land, mountainous
	Soil, stony 4th rate
	No timber
	Mountainous land on 59.39 Chs.
	Oct. 21 1903

	West on a random line bet secs. 29 & 32
40.00	Set temp. 1/4 sec. cor.
59.50	Fall 30 lks. N. of the 1/16 cor. bet. secs. 29 and 32 which is a sandstone 6 x 8 x 6 above ground marked and witnessed as described by the surveyor general.
	Oct 22 at 9h 00m a. m. l. m. t I set off 40°12' N. on the lat. arc. 10°46' S. on the decl. arc. and determine a meridian with the solar at the 1/16 cor. bet. secs. 29 and 32
	Thence I run
	N. 89°43' E. on a true line bet. secs 29 and 32
	Descend along N. side of gulch
13.50	Bottom of gulch drains N. 70° E. 100 ft. below cor. ascend
19.50	Set a cobble-rock 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of Cor. Pits impracticable
27.30	Top of spur projects N. 100 ft. above bottom of gulch. descend along broken N. slope of gulch over

Subdivisions of T. 3 S. R. 2 E.

Chains

59.50 loose cobble-rock
The cor. of secs. 28, 29, 32 and 33
Land, mountainous
Soil, stony 4th rate
No timber
Mountainous land on 59.50 Chs.

October 22, 1903

-General Description-

These portions of the township are nearly all mountainous except the eastern halves of secs. 27 and 34 which is along the Uintah River and being of 2nd rate soil would be good farming land were it not so low it is subject to overflow
All the rest of these portions of the township have rocky and stony soil of the 4th rate and have no vegitation upon them
The only water source is the Uintah River which runs through secs. 27 and 34 along which dense willow undergrowth and cottonwood timber grows
There are no indications of mineral upon these portions of the township and no settlers upon it.

Harry Roger
U. S. Deputy Surveyor.

This 22nd day of October 1903, I discharge; A. B. Larson and employ Chas. P. Nye to perform the duties of Chainmen, Edward McKee and

employed Stephen Adams to perform the duties of chainman, Robert Douglas and employed Albert Pace to perform the duties of moundsman, C. E. Whiteman and employed Leon Smith to perform the duties of flagman. No officer authorized to administer oaths, other than myself, being available, without great inconvenience, delay, and expense, I administer the required preliminary and final oaths.

Harry Rager
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 Harry Rager, 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 Subdivisions of T. 3 S., R. 2 E., of the Uintah Special Base & Meridian, Utah, showing the respective capacities in which they acted:

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robert Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whitman, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rager, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Township No. 3 South Range No. 2 East of the Uintah Special 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

A. B. Larson, *Chainman.*
Edward McKee, *Chainman.*
Robt Douglas, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
C. E. Whitman, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rager
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rogers, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July, ~~189~~ 1903, 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 Township No. 3 South Range No. 2 East of the United States 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.

Harry Rogers
United States Deputy Surveyor.

Subscribed by said Harry Rogers, and sworn to before me this 28th day of January, 1904

Edward H. Anderson
U. S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the survey of Subdivisional lines of Township 3 South Range 2 East of the Utah Special Base & Meridian, Utah

executed by Robert E. Laffler & Harry Rogers under his contract No. 169, dated July 22, 1903, 189, 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-306

H.3.B.

FIELD NOTES

OF THE ~~SURVEY~~ RETRACEMENT OF THE

Uintah Special Meridian

through

Townships No 4 South

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Roger, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 1903

~~Survey~~ Retracement commenced Oct. 28, ~~189~~ 1903

~~Survey~~ Retracement completed Oct. 28, ~~189~~ 1903

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Law 4-42.40

Closing 2 45

NAMES AND DUTIES OF ASSISTANTS.

Chas. T. Nye	Chainman
Stephen Adams	Chainman
Albert Pace	Moundsman
Leon Smith	Flagman

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BOOK A-306

INDEX DIAGRAM.

Township 4 South, *Range* No. 1 West

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Chas. T. Nye and Stephen Adams 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~~ Retracement of the Uintah Special Meridian through T. 4 S.

Chas. T. Nye, *Chainman.*

Stephen Adams, *Chainman.*

Subscribed and sworn to before me this 22 day of October, 1903 ~~189~~

SEAL

Harry Ragan
U. S. Deputy Surveyor

~~WE~~ I, Albert Pace ~~and~~ do solemnly swear that ~~we~~ I 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 of~~ Retracement of the Uintah Special Meridian through T. 4 S.

Albert Pace, *Moundman.*

, *Moundman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Ragan
U. S. Deputy Surveyor

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, Leon Smith, 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~~ Retracement of Uintah Special Meridian through T. 4 S.

Leon Smith, *Flagman.*

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Ragan
U. S. Deputy Surveyor

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Retracement of Uintah Special Meridian T. 4 S. R. 1 W.

Chains

Survey commenced Oct. 28 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment for a description of which See Notes of Retracement of Subdivision lines of T. 2 S. R. 1 E, in Book "a"

As the instrument was examined and tested Oct. 18, 1903 I do not deem it necessary to test the level and collimation or to test the solar apparatus, therefore I proceed as follows.

At the cor. of Tps. 3 and 4 South Rs. 1 E, and 1 W. latitude 40° 10' 41" N. longitude 109° 58' 15" W. I set off 40° 11' N. on the lat. arc; 12° 51' S. on the decl. arc; and at 9h 00m a. m. l. m. t. determine a meridian with the solar

Thence I run

South on a retracement line bet. secs. 1 and 6 on the Uintah Special Meridian through T. 4 S.

39.80 Fall 10 lks E. of the 1/4 sec. cor which is a sandstone 4 x 8 x 6 ins. above ground, firmly set and marked and witnessed, as described by the surveyor general.

79.76 Fall 31 lks. E. of the cor. of secs. 1, 6, 7 and 12 which is a sandstone 7 x 15 x 6 ins. above ground, firmly set, and marked and witnessed, as described by the surveyor general

The course of this line is therefore S. 0° 7' W. and is 79.76 chs. in length.

From the cor. of secs. 1, 6, 7 and 12 heretofore described I run

South on a retracement line bet. secs. 7 and 12 on the Uintah Special Meridian

40.20 Fall 10 lks E. of the 1/4 sec. cor, which is a sandstone boulder 5 x 5 x 4 ft. above ground, marked and witnessed,

Retracement of Uintah Special Meridian - T. 4 S. R 1 W.

Chains	
	as described by the surveyor general.
80.37	Fall 19 lks. E. of the cor. of secs. 7, 12, 13 and 18 which is a sandstone 7 x 16 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.
	The course of this line is therefore S. 0° 08' W. and is 80.37 chs. in length.
	Oct. 28 1903 at this cor. I set off 12° 54' S. on the decl. arc; and at 12h 00m m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 09' N. or within 1' of the proper lat.
	From the cor. of secs. 7, 12, 13 and 18 heretofore described I run South on a retracement line bet. secs. 13 and 18 on the Uintah Special Meridian through T. 4 S.
40.35	Fall 14 lks. E. of the ¼ sec. cor. which is a sandstone 16 x 14 x 7 ins. above ground. firmly set, and marked and witnessed as described by the surveyor general.
80.85	Fall 28 lks. E. of the cor. of secs. 13, 18, 19 and 24 which is a sandstone 6 x 12 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	The course of this line is therefore S. 0° 12' W. and is 80.85 chs. in length
	Oct. 28, 1903 at 2h 00m p.m. l.m.t. I set off 40° 08' N. on the lat. arc; 12° 55' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24
	Thence I run South on a retracement line bet. secs. 19 and 24 on the Uintah Special Meridian

Retracement of Uintah Special Meridian through Tps 4 5.

Chains	
40.35	Fall 16 lks. E. of the 1/4 sec. cor. which is a sandstone 7 x 11 x 5 ins. above ground firmly set and marked and witnessed as described by the surveyor general
80.79	Fall 33 lks. E. of the cor. of secs. 19, 24, 25 and 30 which is a sandstone 8 x 16 x 6 above ground, firmly set, and marked and witnessed as described by the surveyor general The course of this line is therefore S. 0° 14' W. and is 80.79 chs. long.
	From the cor. of secs. 19, 24, 25 and 30 heretofore described I run South on a resurvey line bet secs. 25 and 30 on the Uintah Special Meridian
41.00	No trace of old 1/4 sec. cor. could be found on the reading of 5 chs. Set a sandstone 18 x 12 x 3 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high, W. of cor. Pits impracticable
40.63	Intersect the South West Boundary of the Uintah Indian Reservation. Set a sandstone 16 x 10 x 10 ins. 11 ins. in the ground for closing cor. of fract. secs. 25 and 30 marked C C U I R with 5 grooves on the N. 6 grooves on the East and West and U I R on South faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable From this closing cor. the 11. mile corner on the boundary as established by Deputy Dougall bears S. 80° 16' E. 2.45 chs. dist.

Oct. 28, 1903

Retracement of Mintah Special Meridian T. 45.
Lains

For "General Description" of T. 45. R. 1 W. See Notes of Subdivision Lines of T. 45. R. 1 W. in Book U

Harry Rager
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey of~~ Retracement of Uintah Special Meridian through T. 4 S., showing the respective capacities in which they acted:

Chas. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying all those parts or portions of the Retracement of the Uintah Special Meridian through Township No. 4 South, of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ retraced by him and under his direction; and that said ~~survey~~ retracement 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.

C. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

Subscribed and sworn to before me this 7 day of December, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rogers, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22 day of July, 1903, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Retracement of the Uintah Special Meridian through Township No. 4 South

of the Uintah Special Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been retraced surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said retracement 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 retracement 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.

Harry Rogers
United States Deputy Surveyor.

Subscribed by said Harry Rogers, and sworn to before me this 28th day of January, 1904

Edward H. Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 30 1904

The foregoing field notes of the retracement survey of the Uintah Special Meridian through Township 4 South of the Uintah Special Base & Meridian Utah

executed by Robert E. L. Collier & Harry Rogers under his contract No. 269, dated July 22 1903, 189 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement 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-306

Filed Jany 28/04

K.J.B.

FIELD NOTES

OF THE ~~SURVEY~~ Resurvey OF THE

West Boundary

of

Township No. 4 South Range No. 1 W

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Ragan, United States Deputy Surveyors

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 1903

~~Survey~~ Resurvey commenced Oct. 29, ~~189~~ 1903

~~Survey~~ Resurvey completed Oct 29, ~~189~~ 1903

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High 2 05 48

Low 2 00 00

Closing 6 52

NAMES AND DUTIES OF ASSISTANTS.

Chas. T. Nye	Chainman
Stephen Adams	Chainman
Albert Pace	Roundsman
Leon Smith	Flagman

G—151

Volume
#
R0306

BOOK A-306

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Chas T. Nye and Stephen Adams

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~~ resurvey of West Boundary of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Chas T. Nye, Chainman.

Stephen Adams, Chainman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

~~WE,~~ I Albert Pace ~~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~~ resurvey of West Boundary of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Albert Pace, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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, Leon Smith, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey of~~ resurvey of West Boundary of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Leon Smith, Flagman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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Resurvey of W. Bdy. of T. 4 S. R 1 W.

Chains

Survey commenced Oct. 29 1903 and executed with a W. and L. E. Gurley light mountain transit with solar attachment (not numbered) for a description of which see Notes of retracement of subdivisions of T 2 S. R 1 E. in Book "a".
As the instrument was examined and tested Oct. 18 1903 I do not deem it necessary to test the level and collimation or to test the solar apparatus, therefore I proceed as follows
At the cor. of Tps. 3 and 4 S. Rs. 1 and 2 West heretofore described in Book "F" of Retracement of S Bdy. of T. 3 S. R. 1 W. I set off 40° 11' N. on the lat. arc; 13° 11' S. on the decl. arc; and at 9h 00m a. m. l. m. t. determine a meridian with the solar
Thence I run
South on a true line bet secs 1 and 6
Ascend gently through shadscale and rabbit-brush undergrowth
9,15 Dry wash drains E.
23,00 Begin more abrupt ascent bears E. and W.
31,00 Top of bench bears E. and W. 150 ft. above beginning of more abrupt ascent
thence along top of same
41,56 Knowing from previous retracements that this line should be 81.56 chs. in length to intersect the line bet. secs. 6 and 7 so as to avoid closing corners on the West Boundary therefore I throw the error in the North half mile and at this point I set a cobble-rock 16 x 12 x 6 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high. W. of cor.
64,00 Begin descent bears E. and W.

Resurvey of West Bdy of T. 4 S. R 1 W

Chains:	
64.90	Bottom of gulch drains W. ascend.
70.90	Horse trail bears E. and W.
81.56	Set a cobble rock 14 x 9 x 5 ins. 9 ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked with 1 notch on N. and 5 notches on S. Edges dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft high. W. of cor. Land, mountainous Soil, stony and sandy 4th rate No timber, shadscale and rabbit brush undergrowth on 81.56 chs. Mountainous land on 81.56 chs.
	South on a true line but secs. 7 and 12 Ascend gently through shadscale undergrowth
7.90	Top of ridge bears N. W. and S. E. 40 ft. above sec. cor.
	Descend abruptly
11.75	Bottom of gulch drains S. W. 200 ft. below top of ridge
14.00	Bottom of gulch drains S. E. thence gradual ascent
17.90	Small ravine drains E.
27.35	Top of clay ridge bears E. and W. descend abruptly
29.00	Bottom of steep descent bears E. and W. 50 ft. below beginning thence gradual descent.
32.00	Bottom of gulch drains E. ascend gently
36.00	Begin abrupt ascent over sandstone ledges bears E. and W.
36.90	Top of abrupt ascent 30 ft. above beginning thence gradual ascent.
39.00	Begin descent bears E. and W.
39.90	Bottom of gulch drains W. 20 ft. below beginning of descent, ascend gently

Chains — Resurvey of West Bdy. of T. 4 S. R 1 W.

Chains	
40.00	Set a sandstone 18 x 16 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
43.00	Begin abrupt descent bears E. and W. over sandstone ledges and boulders
46.00	Bottom of steep descent bears E. and W. 150 ft. below beginning of abrupt descent thence gradual descent
50.20	Dry wash 15 ft. wide 10 ft. deep drains E. ascend gently
80.00	Set a sandstone 24 x 12 x 3 ins 18 ins. in the ground for cor. of secs. 7, 12, 13 and 18 marked with 2 notches on N. and 4 notches on S. edges; dug pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, mountainous
	Soil, sandy and stony 4th rate
	No timber, shadscale undergrowth on 80.00 chs. mountainous land on 80.00 chs.
	South on a true line bet. secs. 13 and 18 on the West Bdy. of the township
	Over rolling flat through shadscale undergrowth, ascend gradually
40.00	Set a limestone 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
42.00	Top of gradual ascent bears E. and W. begin gradual descent.
58.27	Center of dry wash 100 ft. wide 10 ft. deep drains E.

Resurvey of West Bdy. of T. 4 S. R. 1 W.

Chains	
64.40	Center of dry wash 100 ft. wide 10 ft. deep drains N.E. ascend gradually
70.50	Small ravine drains N.W.
73.00	Small ravine drains N.W.
77.50	Ravine drains N. 5° W.
79.96	Ravine drains N. 5° E. 1 ch. dist thence N. 5° W.
80.00	Set a sandstone 18 x 6 x 6 ins. 12 ins. in the ground for cor. of secs. 13, 18, 19 and 24 marked with 3 notches on N and E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land, rolling, nearly level Soil sandy and clay 4th rate No Timber; Shadscale undergrowth on 80.00 chs. Oct. 29, 1903 I set off 13°14' S on the decl. arc; and at 12h m. observe the sun on the meridian, the resulting lat. is 40° 08' N. or within 1' of the proper lat.
	South on a true line bet. secs. 19 and 24 on the West Bdy. of the tp. Ascend gently over rolling country through shadscale undergrowth.
40.00	Set a sandstone 16 x 8 x 8 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
74.25	Top of ridge spur projects N. 70° E. 200 ft. above 1/4 sec. cor. descend
80.00	Set a flint rock 18 x 8 x 4 ins. 12 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked with 4 notches on N. and 2 notches on S. edges. dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist.

Resurvey of West Bdy. of T. 4 S. R. 1 W.

and raise a mound of earth 4 ft. base
2 ft. high N. of Cor.
Land, slightly ascending
Soil, sandy loam 4th rate
No timber; Shadscale undergrowth on [illegible]

South on a true line bet. secs 25 and 30
on the West Bdy. of this Tp.
Descend through shadscale undergrowth
0.50 Bottom of gulch drains N. 80° E. ascend
3.92 Intersect the South West Boundary of
the Uintah Indian Reservation
Set a cobble rock 20 x 5 x 3 ins 15 ins.
in the ground for closing cor. of
fract. secs. 25 and 30 marked C.C. 0 1 K
with 5 grooves on N. 1 grooves on E. and
W. and 0 0 1 K on S. faces; dig pits
30 x 24 x 12 ins. N. 69° 52' E. and S. 89° 42' 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.
From this closing cor. the 17 mile cor.
on the S. W. Bdy. as established
by Deputy Dougall bears N. 89° 42' E.
6.52 chs. dist.
Land, mountainous
Soil, sandy and stony 4th rate
No timber; Shadscale undergrowth on 3.92 ch.
Mountainous land on 3.92 ch.

Oct. 29, 1903

For General Description see Notes of
Subdivision of T. 4 S. R. 1 W. in Book [illegible]

Harry Rogers
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ resurvey of West Boundary of T. 4 S. R. 1 W. of the Uintah Special Base and Meridian, Utah showing the respective capacities in which they acted:

Chas. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in ~~surveying~~ resurveying all those parts or portions of the West Boundary of T. 4 S. R. 1 W. of the Uintah Special Base and meridian, State of Utah, which are represented in the foregoing field notes as having been ~~surveyed~~ resurveyed by him and under his direction; and that said ~~survey~~ resurvey 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.

Chas. T. Nye, Chainman.
Stephen Adams, Chainman.
Albert Pace, Moundman.
, Moundman.
, Axman.
, Axman.
Leon Smith, Flagman.

Subscribed and sworn to before me this 7th day of December, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rogers, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July, 1903, 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~~ measured all those parts or portions of West Boundary of T. 4 S. R. 1 W.

of the Uintah Special 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.

Harry Rogers
United States Deputy Surveyor.

Subscribed by said Harry Rogers, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, June 30, 1904 189

The foregoing field notes of the survey of the West Boundary of Township 4 South Range 1 West of the Uintah Special Base and Meridian, Utah

executed by Robert E. Collins by Harry Rogers under his contract No. 169, dated July 22, 1903 189, 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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S.J.
N.F.B.

L. H.

BOOK A-306

FIELD NOTES

OF THE ~~SURVEY~~ RESURVEY OF THE

Subdivision Lines

of

Township No. 4 South Range No. 1 West

Of the Umtah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyor,

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 1903

Re Survey commenced Oct. 29, ~~189~~ 1903

Re Survey completed Nov. 14, ~~189~~ 1903

6—151

high 23 35 94 L
low 17-17-41 L
Closing 19=94 L

NAMES AND DUTIES OF ASSISTANTS.

Chas. T. Nye	Chainman
Stephen Adams	Chainman
Albert Page	Monumenter
Leon Smith	Flagman

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BOOK A-306

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Chas. T. Nye and Stephen Adams 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~~ Resurvey of Subdivision Lines of T. 4 S. R. 1 W. of the Uintah Special Base & Meridian, Utah.

Chas. T. Nye, Chainman.

Stephen Adams, Chainman.

Subscribed and sworn to before me this 22 day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

~~WE~~, Albert Pace ~~and~~ do solemnly swear that ~~we~~ I 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 of~~ Resurvey of Subdivision Lines of T. 4 S. R. 1 W. of the Uintah Special Base & Meridian, Utah.

Albert Pace, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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, Leon Smith, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ~~survey of~~ Resurvey of Subdivision Lines of T. 4 S. R. 1 W. of the Uintah Special Base & Meridian, Utah.

Leon Smith, Flagman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U. S. Deputy Surveyor

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Resurvey of Subdivision of T. 4 S. R. 1 W.

Chains

Survey commenced Oct 29, 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered) with solar attachment, for a description of which see notes of Retracement of Subdivisions of T. 2 S. R. 1 E. in book "a"

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

At the re-established cor. of secs. 3, 4, 33 and 34 on the N. bdy. of this township latitude 40° 10' 4" longitude 110° 1' 38", I set off 40° 11' N. on the lat. arc, 13° 16' S. on the decl. arc; and, at 3h 30m 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 my station

Oct. 30 at 4h 47m a.m. by my watch which is 4m 00s slow of l.m.t. I observe Polaris at western elongation, in accordance with Manual of Instruction and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

Oct 30 at 7h 00m a.m. l.m.t., I lay off the azimuth of Polaris 1° 35' to the East and mark the meridian thus determined, by cutting a small groove in the stone set Oct. 29 on which

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains.

the meridian falls 0.4 ins. east of the mark determined by the solar at 9h 00m a. m. l. my. t. I set off 40° 11' N. on the lat. arc; 13° 31' 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 defines the position for meridian respectively about 0' 21" west and 0' 16" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory

The magnetic bearing of the true meridian at 9h 00m a. m. is N. 16° 25' W; the angle thus determined gives the mg. decl 16° 25' E.

Knowing from previous retracements that practically none of the corners of the subdivisions of this township are to be found but knowing that the cors. of secs. 3, 4, 9 and 10 - 4, 5, 8 and 9 and 5, 6, 7 and 8 are in place and properly marked, to reestablish the remainder of the township I proceed as follows

From the cor. of secs. 1, 2, 35 and 36 on the N. bdy. of this township I run South on a random line bet. secs. 1 and 2

40.15 Set temp. 1/4 sec. cor.

80.15 Set temp. cor. of secs. 1, 2, 11 and 12

I then run

West on a random line bet. secs. 2 and 11

Resurvey of Subdivisions of T. 45 S., R. 17 W.

Chains	
40.00	Sol. temp. 1/4 sec. cor.
80.00	Sol. temp. cor. of secs. 2, 3, 10 and 11
	Thence I run
	N. 0° 7' E. on a random line bet. secs. 2 and 3
40.00	Sol. temp. 1/4 sec. cor.
80.86	Intersect the cor. of secs. 2, 3, 34 and 35
	Thence I return to the temp. cor. of secs. 2, 3, 10 and 11 and run
	West on a random line bet. secs. 3 and 10
40.00	Sol. temp. 1/4 sec. cor.
80.00	Fall 8 lks. S. of the cor. of secs. 3, 4, 9 and 10 which is a sandstone 8 x 10 x 4 ins. above ground marked and witnessed as described by the surveyor general
	Oct. 30, 1903

Heavy rain prevented work until 2 p.m. October 31 at 2h 00m p.m. l.m.t. I set off 40° 10' N. in the lat. arc, 13° 55' E. on the dial arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10

Thence I run

S. 89° 58' E. on a true line bet. secs. 3 and 10 over rolling sandy country, through shadscale and rabbit brush undergrowth descend gradually

10.80	Horse trail bears N. E. and S. W.
30.70	Wagon Road, Fort Duchesne to Parariette Mine bears N. 25° E. and S. 25° W.
40.00	Set a sandstone 16 x 12 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft high N. of cor. Pits impracticable
40.50	Bottom of descent, ascend
42.50	Top of sand ridge bears N. and S. descend gradually
45.75	Bottom of descent, ascend gradually
74.90	Horse trail bears N. and S.

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
78.60	Dry wash drains S. 60° W.
80.00	Intersect the temp. cor. of secs. 2, 3, 10 and 11 at which point I set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for cor. of secs. 2, 3, 10 and 11 marked with 5 notches on S. and 2 notches on E. edges; dig pits 18 x 18 x 12 ins in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, rolling, nearly level
	Soil; sandy 4th rate
	No Timber; dense shadscale and rabbit-brush undergrowth on 80.00 chs.
	Oct 31 1903
	Nov. 1 Sky overcast and observations impossible N. 0° 7' E. on a true line bet. secs. 2 and 3 Descend gradually over sandy country through shadscale and rabbit-brush
1.00	Bottom of dry wash drains S. 60° W
11.70	Horse trail bears N. 15° E and S. 15° W,
40.00	Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins, N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft. high W. of cor.
49.35	Dry wash drains E. begin gradual ascent.
52.70	Horse trail bears N. E. and S. W,
54.30	Wagon Road, Fort Duchesne to Ponette Min. bears N. E. and S. W,
66.45	Horse trail bears N. E. and S. W,
69.85	Dry wash drains N. E,
70.35	Foot of bluff. bears N. E. and S. W, begin rough and broken ascent over sandstone boulders and cliffs.
80.86	Intersect the cor. of secs. 2, 3, 34 and 35 heretofore described on Book "F" of S. Bdy of T. 3 S. R. 1 W.
10.51 / 70.35	Land, mountainous

Resurvey of Subdivisions of T. 45 S. R 1 W.

Chains

Soil, sandy and rocky 4th rate
No Timber; shadscale and rabbit-brush
undergrowth on 80.86 chs,
Mountainous land on 10.51 chs,
Nov. 1, 1903

Nov. 2 1902 at 8h 00m a. m. l. m. t. I set off 40°10'N. on the lat arc; 14°27'S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11.
Thence I run
S. 89°58'E. on a true line bet. secs. 2 and 11
Over gradually ascending land through shadscale and rabbit-brush undergrowth
13.65 Horse trail bears N. E. and S. W.
33.00 Begin more abrupt ascent
40.00 Set a sandstone 16 x 7 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
48.00 Foot of bluff bears N. and S. begin abrupt ascent over sandstone boulders and cliffs
49.80 Top of bluff bears N. and S. 75 ft. above foot, thence gradual descent
60.00 Bottom of swale 20 ft. below top of bluff drains N. ascend.
67.50 Top of N. slope of ridge bears N. and S. 40 ft. above swale thence gradual descent,
80.00 I intersect the temp. cor. of secs. 1, 2, 11 and 12 at which point I set a sandstone 16 x 8 x 5 ins. 11 ins. in the ground for cor. of secs. 1, 2, 11 and 12 marked with 5 notches on S. and 1 notch on E. edge; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a

4/93.

Resurvey of Subdivisions of T. 45 S. R. 1 W.

Chains.

mound of earth 4 ft. base 2 ft. high W. of cor.
Land, mountainous
Soil, sandy and rocky 4th rate
No Timber, shadscale and rabbit brush undergrowth on 80.00 chs.
Mountainous land on 47.00 chs.

North on a true line bet. secs. 1 and 2
Descend over rolling sandy country through shadscale and rabbit-brush undergrowth
11.95 Horse trail bears E. and W.
12.40 Begin more abrupt descent bears E. and W.
15.65 Bottom of ravine drains N. W. 50 ft. below beginning of more abrupt descent. asc.
18.65 Top of spur projects W. 50 ft above bottom of ravine, descend abruptly
22.15 Bottom of swale drains W. 60 ft. below top of spur, ascend
25.65 Point of sandstone spur projects N. W. 30 ft. above bottom of swale, descend
39.15 Bottom of dry wash drains W. ascend
40.00 Set a sandstone 16 x 10 x 5 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
41.15 Top of ascent bears E. and W. descend
52.15 Dry wash drains W. 50 ft. below top of ridge, ascend
57.15 Sand ridge 15 ft. high bears E. and W. descend
58.65 Bottom of dry wash drains W. ascend
59.10 Bottom of dry wash drains W. ascend
64.65 Top of sand-ridge bears E. and W. 15 ft. above bottom of swale descend
72.50 Bottom of descent begin ascent bears N. E. and S. W.

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
80.15	The cor. of secs. 1, 2, 35 and 36 heretofore described in Book 15. "F." of S. Bdy. Tp. 3 S. R. 1 W.
	Land, mountainous
	Soil, sandy and rocky 4th rate
	No Timber, shadscale and rabbit-brush undergrowth on 80.15 chs.
	Mountainous land on 80.15 chs.
	Nov. 2 at this cor. I set off 14° 34' S. on the decl. arc; and, at 12h 00m m.t.m.t. bared the sun on the meridian the resulting lat. is 40° 11' N. or within 1' of the proper lat.
	To re-establish the 1/4 sec. cor bet. secs. 3 and 4 I run
	N. 0° 15' W. on a random resurvey line bet. secs. 3 and 4
40.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs.
	Set temp. 1/4 sec. cor.
81.77	Intersect the N. Bdy. of the Tp. 1 rod 1 lks. W. of the cor. of secs. 3, 4, 33 and 34
	Thence I run
	S. 0° 37' W. on a true line bet. secs. 3 and 4
	Descend through shadscale and rabbit-brush undergrowth.
1.50	Bottom of gulch drain N. W. 40 ft. below sec. cor. ascend gradually along top of bench
8.80	Top of ascent, begin descent over sandstone ledges
9.00	Bottom of gulch drain W. 100 ft. below top of bench, ascend
11.15	Top of spur projects W. 30 ft. above bottom of gulch, descend
13.85	Bottom of ravine drain N. W. 30 ft. below top of spur, ascend

Resurvey of Subdivisions of T. 4 S. R 1 W.

Chain.	
15.00	Begin more gradual ascent along top of bench.
36.00	Top of ascent bears N. E. and S. W. descend abruptly over sandstone boulders
41.77	Set a sandstone 24x20x6 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face, and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
	Nov. 2 1903 at 3h 00m p.m. l.m.t. I set off 40°11' N. on the lat. arc; 14°34'5" on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34
60.15	Head of draw drain N. E. 150 ft. below top of bench, thence ascend gradually over rough sandstone boulders and ledges along E. slope of bench
70.00	Top of rocky ridge bears E. and W. descend abruptly over cliffs and clay slides
74.80	Bottom of steep descent 300 ft. below top, thence gradual descent.
81.77	The cor. of secs. 3, 4, 9 and 10
	Land, mountainous
	Soil, rocky and stony 4th rate
	No Timber, chaparral and rabbit-brush undergrowth on 81.77 chs.
	Mountainous land on 81.77 chs.

To reestablish the line and the 1/4 sec. cor. bet. secs. 4 and 9 run N. 89°38' W. on a random line bet. secs. 4 and 9

11.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs. Set temp. 1/4 sec. cor.
80.00	Pass 59.61 lks. N. of the cor. of secs. 4, 5, 8

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	and 9 which is a sandstone 8 x 8 x 6 ins. above ground marked and witnessed as described by the surveyor general.
	Thence I run
	N. 89° 57' E. on a true line bet. secs. 4 and 9
	Ascend gently
15,50	Dry wash drain S. W.
16,50	Begin abrupt ascent over clay slide bears N. and S.
22,00	Top of clay ridge projects N. 75 ft. above beginning of abrupt ascent, descend abruptly.
23,30	Bottom of abrupt descent bears N. and S. 75 ft. below top of ridge descend gradually over sandstone boulders
34,00	Dry wash drain S. descend gradually
40,00	Set a sandstone 30 x 18 x 12 ins. 28 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 3 ft. base 1½ ft. high N. of cor. Pits impracticable
50,00	Dry wash drain S. 5 chs. thence S. E.
63,00	Begin abrupt ascent over clay slide bears N. W. and S. E.
68,50	Top of ridge projects S. 50 ft. above beginning of abrupt ascent, descend abruptly
70,00	Bottom of ridge descend bears N. E. and S. W. thence gradual descent.
80,00	The cor. of secs. 3, 4, 9 and 10
	Land, mountainous
	Soil, rocky and clay 4th rate
	No timber
	Mountainous land on 80,00 chs.

To reestablish the line and the 1/4 sec. cor. fell secs. 5 and 8 I run

Resurvey of Subdivision of T. 4 S. R. [illegible]

Chains

N. 89°54' W. on a random line bet. secs. 5 and 8

[illegible] No trace of the old Hass. cor. could be found in the radius of 5 chs.

Set temp. Hass. cor.

79.96 Intersect the cor. of secs. 5, 6, 7 and 8 which is a sandstone 1 x 6 x 6 ins. above ground marked and witnessed as described by the surveyor general

Thence I run

S. 89°54' E. on a true line bet. secs. 5 and 8

Ascend gradually through shadscale and rabbit brush undergrowth

[illegible] Top of ascent bears N. and S. descend gradually

23.70 Horse trail bears N. and S.

[illegible] Horse trail bears N. E. and S. W.

39.45 Set a sandstone 15 x 5 x 6 ins. 12 ins. in the ground for Hass. cor. marked H on N. face dug pits 15 x 15 x 12 ins. E. and W. of stone 2 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

[illegible] Begin steep descent bears N. E. and S. W. over sand bank and sandstone boulders

[illegible] Bottom of steep descent 100 ft. below beginning thence more gradual descent

[illegible] Bottom of gulch drains N. E. clear sandstone boulders, ascend gradually

[illegible] Begin abrupt ascent over sandstone cliffs.

[illegible] Top of abrupt ascent thence gradual descent over N. slope of bluff over sandstone cliffs and boulders

[illegible] Leave cliffs and boulders N. W. and S. E.

[illegible] Arroyo drains S. ascend gradually

[illegible] The cor. of secs. 4, 5, 8 and 9

Land mountainous

Soil, sandy, rocky and clay [illegible]

No timber, shadscale undergrowth on 79.96 chs.

Mountainous land on 79.96 chs.

Nov. 2. 1903

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	To reestablish the line and the 1/4 sec. cor. bet. secs. 4 and 5 I run
	N. 0° 24' W. on a random line bet. secs. 4 and 5
40.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs.
	Set temp. 1/4 sec. cor.
82.60	I intersect the N. Bdy of the township 157.4 lks. W. of the cor. of secs. 4, 5, 32 and 33 Nov. 3 at 9h 00m a. m. l. m. t. I set off 40' 11" N. on the lat. arc; 14° 48' 30" S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33
	Thence I run
	S. 0° 41' W. on a true line bet. secs. 4 and 5 ascend abruptly along S.W. side of gulch
2.95	Top of steep ascent bears N.E. and S.W.
	thence nearly level along top of bench
23.45	Begin descent bears N.W. and S.E.
26.65	Bottom of ravine drains W. 60 ft. below top of bench, ascend
29.05	Bottom of gulch drains N.W.
35.70	Top of bench bears E. and W. thence along top of same 75 ft. above bottom of gulch
42.60	Set a cobble rock 14 x 10 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
44.05	Horse trail bears E. and W.
51.25	Begin descent from top of bench bears N.E. and S.W. over cliffs and sandstone boulders
52.85	Bottom of ravine drains S.E. 50 ft. below beginning of descent, descend
57.85	Top of cliff 20 ft. high bears E. and W. descend abruptly.
59.80	Bottom of steep descent bears E. and W.

Resurvey of Subdivisions of T. 45 R 1 W.

Chains.

65.05 Dry wash drains E. descend

75.00 Deep and rough ravine drains E. ascend over cliffs.

70.60 Top of rocky ridge bears E. and W. 30 ft above bottom of ravine descend over cliffs.

70.95 Cliff 20 ft. high bears E. and W.

72.95 Bottom of rocky descent, thence gradual descent.

82.60 The cor. of secs. 4, 5, 8 and 9
Land mountainous
Soil, rocky and stony 4th rate
No timber
Mountainous land on 82.60 chs.

To reestablish the line and the 1/4 sec. cor. bet. secs. 5 and 6 I run
N. 0° 19' W. on a random line bet. secs. 5 and 6

40.00 No trace of old 1/4 sec. cor. could be found in the radius of 5 chs.
Set temp. 1/4 sec. cor.

83.66 I intersect the N. bdy. of the township 2.38 chs. W. of the cor. of secs. 5, 6, 31 and 32.
Thence I run
S. 1° 19' W. on a true line bet. secs. 5 and 6
ascend through shadscale and rabbit-brush

5.90 Bottom of gulch drains N. E.

14.50 Horse trail bears N. 15° W. and S. 15° E.

22.40 Horse trail bears N. 10° E. and S. 10° W.

25.85 Bottom of gulch drains N. 10° W.

27.40 Horse trail bears N. 10° W. and S. 10° E.
thence along E. slope of gulch

39.05 Bottom of gulch drains N. 10° E.
thence along W. slope of gulch

43.66 Set a cobble rock 18 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

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
50.75	Small ravine drains N. W. joins main wash 150 lks. N. W.
55.90	Top of spur projects W. descend
58.10	Bottom of gulch drains W. 30 ft. below top of spur, ascend
61.45	Top of bench bears E. and W. 100 ft. above bottom of gulch thence along top of bench
64.40	Begin descent bears E. and W.
77.20	Bottom of gulch drains S. W. 50 ft. below beginning of descent.
82.85	Bottom of dry wash drains S. W. thence gradual ascent.
83.66	The cor. of secs. 5, 6, 7 and 8
	Land, mountainous
	Soil, rocky and sandy 4th rate.
	No Timber; shadscale and rabbit-brush undergrowth on 83.66 chs.
	Mountainous land on 83.66 chs.
	Nov. 3, 1903 at this cor. I set off 140° 52' S. on the decl. arc; and at 12h 00m M. l.m.t. observe the sun on the meridian the resulting lat. is 40°10' N. or within 1' of the proper lat.
	Nov. 3, 1903
	To reestablish the line and the 1/4 sec. cor. bet. secs. 6 and 7 I run
	S. 89° 53' W. on a random line bet. secs. 6 and 7
40.00	No trace of old 1/4 sec. cor. could be found in the radius of 5 chs.
	Set temp. 1/4 sec. cor.
77.36	Intersect the West Bdy. of the township at the cor. of secs. 1, 6, 7 and 12
	Thence I run
	N. 89° 53' E. on a true line bet. secs. 6 and 7
	ascend through shadscale and rabbit-brush undergrowth
2.40	Top of ridge. - bears N. E. and S. W. 30 ft.

above sec. cor. descend

25.40 Top of South slope of knoll top about 3 chs. N. thence descend over rolling country

37.36 Set a sandstone 18 x 5 x 6 ins 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face. dig pits 18 x 18 x 12 ins E. and W. of stone 3 ft dist: and raise a mound of earth 3 1/2 ft base 1 1/2 ft. high N. of cor.

Nov. 4, 1903 at 9h 00m a. m. l. m. t. I set off 40° 10' N. on the lat. arc; 15° 07' S. on the decl. arc: and determine a meridian with the solar at the 1/4 sec. cor. bet. secs. 6 and 7

43.25 Horse trail bears N. W. and S. E.

49.40 Bottom of ravine drains S. E. 2 chs. to junction thence S. W.

51.25 Bottom of ravine drains S. W.

60.15 Bottom of ravine drains S.

63.90 Bottom of ravine drains S.

66.90 Bottom of descent bears N. and S. begin ascent

68.00 Top of spur projects S. 30 ft. above bottom of descent

72.40 Bottom of gulch drains S. 25 ft. below top of spur, ascend

73.00 Leave shadscal and rabbit brush undergrowth N.E. and S.W. enter scattering greasewood.

74.50 Top of spur projects S. 25 ft above bottom of gulch, descend

76.50 Bottom of gulch drains S.W. 30 ft. below top of spur, ascend

77.36 The cor. of secs 5, 6, 7 and 8

Land, mountainous.

Soil, rocky and clay 4th rate

No Timber; shadscal and rabbitbrush undergrowth on 73.00 chs.

Scattering greasewood on 43.6 chs.

Resurvey of subdivisions of T. 4 S. R. 1 W.

Chains	
	Mountainous land on 77.36 chs. Nov. 4, 1903 at this cor. I set off 15° 10' S. on the decl. arc; and at 12h 00m m. l. m. t. observe the sun on the meridian, the resulting lat is 40° 10' N, or within 1' of the proper lat.
	After running many lines of retracement and searching for many of the cors. in the interior of this township I consides it impracticable to try and find any more of the corners therefore to reestablish the rest of the corners I would subdivide in the regular manner but the South West Boundry of the Uintah Indian Reservation runs through the southern portion of the township therefore it becomes necessary to subdivide from North to South. Therefore I proceed as follows; Nov. 4, 1903 at 2h 00m p. m. l. m. t. I set off 40° 10' N, on the lat. arc; 15° 12' S, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 1, 2, 11 and 12 Thence I run S. 0° 1' E. on a true line bet secs. 11 and 12 Ascend over sandy country through shadscale and greasewood undergrowth
32.90	Top of ridge bears N. W. and S. E. descend
35.10	Bottom of gulch drains N. W. 30 ft. below top of ridge ascend
40.00	Set a sandstone 14 x 12 x 5 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist. and

Chains

raise a mound of earth 3½ ft. base 1½ ft high W. of cor.

44.10 Top of ridge bears E. and W. 100 ft. above bottom of gulch. descend abruptly.

48.00 Bottom of abrupt descend, 150 ft below top of ridge, descend

53.60 Bottom of gulch drains E. ascend

69.60 Top of ridge bears E. and W. 150 ft. above bottom of gulch, thence begin abrupt descent over sandstone ledges and boulders. Have shadscale and greasewood undergrowth E. and W.

75.60 Foot of bluff 300 ft below top bears E and W, descend

80.00 Set a sandstone 14 x 11 x 7 ins. 9 ins. in the ground for cor. of secs 11, 12, 13 and 14 marked with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable

Land, mountainous

Soil, rocky and sandy 4th rate

No Timber; shadscale and greasewood undergrowth on 69.60 chs.

Mountainous land on 80.00 chs.

Nov. 4, 1905

Nov. 5, at 9h 00 m. a.m sky overcast, obs. impossible

S. 0° 1' E. on a true line bet. secs. 13 and 14

Descend along sandy E. slope of ridge through shadscale and greasewood undergrowth.

5.50 Bottom of dry wash drains S. W. 30 ft. below sur. ascend

11.20 Top of sandstone bluff bears E. and W. 50 ft. above bottom of dry wash. descend.

12.60 Foot of bluff bears E and W. thence

Resurvey of subdivisions of T. 4 S. R. 1

Chains	
	gradual descent.
30.10	Bottom of gradual descent thence gradual ascent.
40.00	Set a sandstone 14 x 8 x 5 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
54.25	Dry wash 230 lks. wide 10 ft. deep drains E. ascend
56.50	Leave greasewood and shadscale bears E. and W.
74.00	Begin steep ascent bears E. and W.
77.60	Top of steep ascent bears E. and W. thence gradual ascent over top of rolling flat.
80.00	Set a sandstone 17 x 6 x 5 ins. 11 ins. in the ground for cor. of secs. 13, 14, 23 and 24 marked with 3 notches on S. and 1 notch on E. edge; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, mountainous
	Soil, sandy and clay 4th rate
	No Timber; shadscale and greasewood undergrowth on 56.50 chs.
	Mountainous land on 80.00 chs.
	Nov. 5 1903 at this cor. I set off 15°29'S on the decl. arc; and at 12h 00m m.l.m.t. observe the sun on the meridian, the resulting lat. is 40°08'N or within 1' of the proper lat.
	S. 0° 1' E. on a true line bet. secs. 23 and 24

Resurvey of subdivisions of T. 4 S. R. 1 W.

Chains

Descend gradually over rolling flat through shadscale and greasewood undergrowth.

37.40 Bottom of dry wash drains E. ascend gradually

40.00 Set a cobble-rock 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.

53.50 Top of small ridge bears E. and W. begin gradual descent.

60.20 Small dry wash drains E. begin gradual ascent.

72.50 Top of small ridge bears E. and W. begin gradual descent.

80.00 Set a sandstone 16 x 10 x 4 ins 11 ins. in the ground for cor. of secs. 23, 24, 25 and 26 marked with 2 notches on S. and 1 notch on E. edge; dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.

Land, rolling

Soil, sandy and clay 4th rate

No timber; shadscale and greasewood undergrowth on 80.00 chs.

Nov. 5, 1903 at 3h 00m p. m. l. m. t. I set off 40° 07' N. on the lat. arc; 15° 30' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26

Thence I run

S. 00° 1' E. on a true line bet. secs. 25 and 26

0.50 Bottom of gradual descent bears E. and W. begin gradual ascent.

Resurvey of subdivisions of T. 4 S. R 1 W.

Chains	
	through shadscale and greasewood undergrowth.
13.00	Top of ridge bears E. and W. 50 ft. above sec. cor. begin abrupt descent
16.85	Bottom of ravine drains S. E., 50 ft. below top of ridge. ascend
18.80	Top of ridge bears N. W. and S. E. 40 ft. above bottom of ravine descend
21.00	Begin more gradual descent bears N. W. and S. E.
28.98	I intersect South West Boundry of the Uintah Indian Reservation, set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for closing cor. of fracl. secs. 25 and 26 marked C. C. U I R with 5 grooves on N., 1 groove on E. and U U I R on S. faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable.
	From this closing cor. the 12 mile corner on the boundary as established by Deputy Dougall bears S. 80°06' E. 2.66 chs. dist.
	Land, mountainous
	Soil, sandy 4th rate
	No Timber; shadscale and greasewood undergrowth on 28.48 chs.
	Mountainous land on 28.98 chs.
	Nov. 5, 1903
	Nov. 6, 1903 at 9h 00m a.m. l. m. t. I set off 40°10' N. on the lat. arc 15°44' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11
	Thence I run
	S. 0°2' E on a true line bet. secs. 10 and 11

Resurvey of subdivisions of T. 4 S. R. 1 W.

Chains	
	Over gradually ascending land through shadscale and greasewood undergrowth.
14.50	Begin more abrupt ascent bears E. and W.
25.00	Top of ridge bears E. and W. 75 ft. above beginning of more abrupt ascent thence descend abruptly over sandstone boulders and ledges
31.50	Bottom of abrupt descent bears S. E. and W. 50 ft. below top of ridge thence gradual ascent.
40.00	Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high W. of cor.
43.50	Horse trail bears N. 15° E. and S. 15° W.
45.50	Begin more abrupt ascent bears E. and W.
67.65	Top of ridge bears E. and W. 60 ft. above beginning of more abrupt ascent. thence begin precipitous descent over sandstone ledges.
69.50	Bottom of precipitous descent thence gradual descent. 65 ft. below top of ridge
76.10	Bottom of dry wash drains E. ascend gradually
77.15	Horse trail bears N. W. and S. E.
80.00	Set a sandstone 16 x 9 x 4 ins. 11 ins. in the ground for cor. of secs. 10, 11, 14 and 15 marked with 4 notches on S. and 2 notches on E. edges. 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, mountainous
	Soil, sandy and rocky 4th rate
No	Timber, shadscale and greasewood undergrowth on 80.00 chs.
	Mountainous land on 80.00 chs.
	Nov. 6, 1903 At this cor. I set off

Chains	
	15° 47' S. on the decl. arc, and at 12h 00m m. l. m. t. observe the sun on the meridian, the resulting lat. is 40° 09' N. or within 1' of the proper lat.
	S. 89° 58' E. on a random line bet. secs. 11 and 14
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect N. and S. line 8 lks. S. of the 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 over sandy land through scattering shadscale undergrowth
2.10	Top of ridge bears N. and S. 20 ft. above sec. cor. descend
10.60	Bottom of dry wash drains S. 40 ft. below top of ridge. ascend gradually
33.60	Top of ridge bears N. E. and S. W. descend
40.04	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; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. Pits impracticable
50.00	Bottom of dry wash drains S. ascend gradually.
55.60	Begin abrupt ascent bears N. and S.
59.00	Top of ridge bears N. and S. 150 ft above beginning of abrupt ascent. descend
71.20	Bottom of dry wash drains S. E. 75 ft. below top of ridge ascend.
80.08	The cor. of secs. 10, 11, 14 and 15
	Land, mountainous
	Soil, sandy and rocky 4th rate
	No Timber, scattering shadscale undergrowth on 80.08 chs.
	Mountainous land on 80.08 chs.

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	Nov. 6, 1903 at 3h. 00m. p.m. l.m.t. I set off 40° 09' N. on the lat. arc; 15° 49' S. on the decl. arc; and, determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15
	Thence I run
	S. 0° 2' E. on a true line bet. secs. 14 and 15
	Over gradual ascending land through shadscale and greasewood undergrowth
15.50	Begin more abrupt ascent bears E. and W.
20.00	Top of ridge bears E. and W. 50 ft. above beginning of more abrupt ascent. descend
25.50	Begin more abrupt descent bears. E. and W.
38.50	Bottom of descent bears E. and W. 100 ft below top of ridge, thence gradual ascent.
39.50	Small sand-ridge bears E. and W. descend
40.00	Set a sandstone 18 x 10 x 4 ins, 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
43.50	Bottom of wash drains E. ascend gradually
54.75	Top of ridge bears N. W. and S. E. descend
58.50	Foot of ridge bears N. W. and S. E. 50 ft. below top, descend gradually
67.25	Horse trail bears E. and W.
75.50	Dry wash 75 lks Wide 20 ft. deep drains S. E. thence gradual ascent.
80.00	Set a sandstone 14 x 8 x 6 ins, 9 ins. in the ground for. cor. of secs. 14, 15, 22 and

Chains

23, marked with 3 notches on S. and 2 notches on E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft dist. and raise a mound of earth 4 ft. base 2 ft high W. of cor.
Land, mountainous
Soil, sandy and clay 4th rate
No Timber, shadscale and greasewood undergrowth on 80.00 chs.
Mountainous land on 80.00 chs.
Nov. 6, 1903

N. 89° 59' E. on a random line bet. secs. 14 and 23
40.00 Set temp. 1/4 sec. cor.
79.96 Intersect the cor. of secs. 13, 14, 23 and 24
November 7 at 9h 06m a. m. l. m. t. I set off 40° 08' N. on the lat. arc; 16° 02' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24
Thence I run
S. 89° 59' W. on a true line bet secs 14 and 23 along top of rolling flat through shadscale and rabbit-brush undergrowth
32.50 Descend from top of bench bears N. and S.
36.50 Foot of bench bears N. and S. 50 ft. below top. thence gradual descent.
39.15 Horse trail bears N. and S.
39.98 Set a sandstone 16 X 6 X 6 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
Pits impracticable

Chains	
70.00	Dry wash drains N. 30° E. ascend gradually.
74.60	Dry wash 25 lks. wide 10 ft. deep drains N. 30° E.
79.96	The cor. of secs. 14, 15, 22 and 23
	Land; level and rolling
	Soil, sandy and clay 4th rate
	No Timber; shadscale and rabbitbrush undergrowth 79.96 chs.
	Nov. 7 1913 at this cor. I set off 16°05' S. on the decl. arc; and, at 12h00m m.t.m.b. observe the sun on the meridian, the resulting lat is 40°08' N. or within 1' of the proper lat.
	S. 0° 2' E. on a true line bet. secs. 22 and 23 Over gradually ascending land through shadscale undergrowth.
8.75	Begin more abrupt ascent bears E. and W.
11.60	Top of spur projects E. 40 ft. above beginning of abrupt ascent.
13.50	Bottom of draw drains N. E. 20 ft below top of spur, ascend
29.70	Top of ascent bears E. and W. thence gradual descent over rolling flat;
40.00	Set a sandstone 14 x 8 x 6 ins. 9 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
42.76	Bottom of wash drains N. 75° E. begin gradual ascent
69.25	Top of ascent bears E. and W. thence gradual descent.
80.00	Set a sandstone 24 x 6 x 4 ins. 18 ins. in the ground for cor. of secs. 22, 23,

2970/5030

Chain.

26 and 27 marked with 2 notches on S. and E. edges; dig pits 18 x 18 x 12 ins. in each sec. 3 ft. dist., and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
Land, mountainous
Soil, rocky and sandy 1st rate
No Timber; shadscale undergrowth in
80.00 chs.
Mountainous land on 29.70 chs.

N. 89°59' E. on a random line bet. secs 23 and 26
40.00 Set temp. 1/4 sec. cor.
80.00 Intersect N. and S. line 18 lks. S. of the cor. of secs. 23, 24, 25 and 26
Nov. 7, 1903 at 3h 00m p.m. L.M.T. I set off 40° 07' N. on the lat. arc. 16° 07' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs 13, 14, 23 and 24
Thence I run
S. 89°51' W. on a true line bet secs. 23 and 26
Ascend gradually through shadscale undergrowth over rolling country
18.00 Begin more abrupt ascent bears N. and S.
23.00 Top of low ridge bears N. and S. 30 ft. above beginning of more abrupt ascent, descend gradually
39.00 Bottom of gradual descent begin gradual ascent bears N. and S.
40.00 Set a sandstone 15 x 7 x 6 ins, 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and N. of stone 3 ft. dist. and raise a mound

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 22, 23, 26 and 27
	Land, rolling, nearly level
	Soil, sandy and stony 4th rate
	No Timber; shadscale undergrowth on 80.00 chs.
	S. 0° 2' E. on a true line bet. secs. 26 and 27 over descending land through shadscale undergrowth
2.85	Ravine drains W. 15 ft. below sec. cor. ascend
4.20	Top of spur projects W. 20 ft above bottom of ravine, descend
13.00	Bottom of ravine drains S. 50 ft. below top of spur, thence descend in bottom of same
14.87	I intersect the South West Boundary of the Uintah Indian Reservation, Set a sandstone 20 x 8 x 8 ins. 15 ins. in the ground for closing cor. of fract. secs. 26 and 27 marked C C U I R with 5 grooves on N. 1 groove on E. and U I R on S. faces; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable. From this closing cor. the 13th mile stone on the boundary as established by Deputy Dougall bears S. 80° 20' E. 4.00 chs.
	Land, mountainous
	Soil, rocky and sandy 4th rate
	No Timber; shadscale undergrowth on 14.87 chs
	Mountainous land on 14.87 chs
	Nov. 7, 1903

Resurvey of subdivisions of T. 4 S. R 1 W

Chains	
	Nov. 8, 1903 at 9h 00m a. m. l. m. t. I set off 40° 10' N. on the lat. arc; 16° 20' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 9 and 10
	Thence I run
	S. 0° 2' E. on a true line bet secs. 9 and 10
	Descend gradually through shadscale and greasewood
4.70	a horse trail bears N. E. and S. W.
24.00	Dry wash drains E.
29.30	Horse trail bears N. E. and S. W. also Dry wash drains N. E. ascend gradually
40.00	set a sandstone 16 x 10 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
42.00	Top of sand-ridge bears E. and W. descend
44.80	Wagon Road, Fort Duchesne to Parrette Mine bears N. E. and S. W.
48.15	Horse trail bears N. E and S. W.
59.65	Horse trail bears N. E. and S. W.
80.00	Set a sandstone 18 x 10 x 4 ins. 12 ins. in the ground for cor. of secs. 9, 10, 15 and 16 marked with 4 notches on South and 3 notches on E. edges dig pits 18 x 18 x 12 ins. in each sec. 5½ ft. dist. and raise a mound of earth 4 ft. base 2 ft. high W. of cor.
	Land, nearly level
	Soil, sandy 4th rate
	No Timber, shadscale and greasewood undergrowth on 80.00 chs.

Resurvey of subdivisions of T. 4 S. R. 1 W.

Chains	
	S. 89°58' E. on a random line bet secs. 10 and 15
40.00	Set temp. 1/4 sec. cor.
80.08	Intersect N. and S. line 5.45 chs N. of the cor. of secs. 10, 11, 14 and 15
	Thence I run
	N. 89°56' W. on a true line bet secs. 10 and 15
	Ascend over rocky country through shadscale undergrowth.
9.00	Top of rocky spur projects S. 60° E. 30 ft above sec. cor. descend
12.40	Horse trail bears N. and S.
24.30	Begin more abrupt descent over sandstone boulders bears N. and S.
28.50	Bottom of descent bears N. and S. begin gradual ascent, leave sandstone boulders.
30.70	Horse trail bears N. 15° E. and S. 15° W.
34.00	Dry wash drains S. 15° W.
40.04	Set a sandstone 14x12x6 ins. 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18x18x12 ins. E. and W. of stone 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft high N. of cor.
62.75	Top of spur projects S. descend.
75.85	Horse trail bears N. and S.
80.08	The cor. of secs. 9, 10, 15 and 16
	Land, mountainous
	Soil, rocky and sandy 4th rate
	No Timber, shadscale undergrowth on 80.08 chs.
	Mountainous land on 80.08 chs.
	Nov. 8, 1903 at this cor. I set off 16°53' S. on the decl. arc; and at 12h00m m.l.m.t. observe the sun on the meridian, the resulting lat. is 40°09' N. or within 1' of the proper lat.

Chains	
	S. 0° 2' E. on a true line bet. secs. 15 and 16
	Over gently ascending sandy country through shadscale and greasewood undergrowth
3.85	Top of ridge bears E. and W, descend
8.65	Dry wash drains E. thence ascend gradually
24.25	Top of ridge bears E. and W. descend gradually
34.80	Horse trail bears E. and W
35.80	Bottom of dry wash 20 lks wide 8 ft. deep drains E. ascend gently through clay country which is subject to overflow in time of floods
40.00	Set a sandstone 16 x 8 x 4 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dug pits 18 x 18 x 12 ins N. and S. of stone 3 ft. dist. and raise a mound of earth 3½ ft base 1½ ft. high W. of cor.
51.15	Horse trail bears N. E. and S. W.
71.00	Dry wash drains N. E.
76.45	Horse trail bears N. 15° E. and S. 15° W.
80.00	Set a sandstone 24 x 14 x 4 ins, 18 ins. in the ground for cor of secs. 15, 16, 21 and 22 marked 4 S on N. E., and 1 W on S. E. face with 3 notches on S. and E. edges; and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable
35.80 / 44.20	Land, mountainous
	Soil, sandy and clay 4th rate
	No Timber, shadscale and greasewood undergrowth on 80.00 chs.
	Mountainous land on 35.80 chs.
	Nov. 8, at 3 p.m. sky overcast obs. impossible
	S. 89° 56' E. on a random line bet secs.

Resurvey of subdivisions of T.4S.R.1W.

Chains	
	15 and 22
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect N. and S. line 15 chs S. of the cor. of secs. 14, 15, 22 and 23
	Thence I run
	S. 89°58' W. on a true line bet. secs. 15 and 22
	Ascend gently through shadscale undergrowth along S. side of wash.
18.00	Begin more abrupt ascent bears N. and E.
21.25	Top of spur projects N.E. 30 ft above beginning of more abrupt ascent. descend
33.00	Bottom of descent bears N.E. and S.W. ascend gradually
40.00	Set a sandstone 18 x 8 x 5 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
41.75	Top of spur projects N. descend
49.00	Bottom of gulch drains N.W. descend gradually
52.65	Dry wash drains N.
56.00	Dry wash drains N.E. ascend gradually.
62.00	Top of spur projects N. 20 ft above dry wash, descend
77.85	Dry wash drains N.E. 40 ft. below top of spur, ascend gradually
80.00	The cor of secs. 15, 16, 21 and 22
	Land, mountainous
	Soil, sandy and clay 4th rate
No	Timber, shadscale undergrowth on 80.00 chs.
	Mountainous land on 80.00 chs.
	Nov. 8, 1903

Nov. 9, 1903 Heavy wind prevented work

Chains	
	on this day. Nov. 9, 1903
	Nov. 10, 1903 at 9h 00m a.m. l.m.t. I set off 40°08' N. on the lat. arc; 16°55' S. on the decl. arc; and determine a meridian with the solar at the cor of secs. 15, 16, 21 and 22
	Thence I run
	S. 0°2' E. on a true line bet. secs. 21 and 22
	ascend gently
3.00	Dry wash drains N.E. begin more abrupt ascent
5.50	Top of rocky spur projects W. 30 ft. above dry wash. descend
7.00	Dry wash drains W.
12.90	Dry wash drains N.W. heads about 3 chs. S.E.
18.75	Dry wash drains N.W. ascend abruptly
22.75	Top of spur projects E. 30 ft above bottom of gulch descend
24.30	Bottom of ravine drains E. 15 ft. below top of spur, ascend
26.75	Top of spur projects E. 15 ft above bottom of ravine descend
29.80	Bottom of ravine drains E. 25 ft. below top of spur, ascend
33.00	Top of spur projects N.E. 25 ft. above bottom of ravine, descend
38.00	Bottom of ravine drains N.E. 30 ft. below top of spur ascend
40.00	Set a cobble-rock 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
40.30	Top of spur projects N.E. 25 ft. above bottom of gulch. descend

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
43.00	Bottom of ravine drains E. ascend
51.00	Top of spur projects E. 25 ft above bottom of ravine descend
57.00	Bottom of gulch drains N. E. 50 ft below top of spur ascend over clay bank
59.00	Top of ascent over clay bank thence gradual ascent.
69.90	Bottom of ravine drains N. E. heads about 3 chs. S. W. ascend
72.00	Top of ascent bears N. E. and S. W. thence along top of rolling flat enter shadscale and greasewood undergrowth N. E. and S. W.
80.00	Set a sandstone 18 x 12 x 3 ins. 12 ins. in the ground for cor. of secs. 21, 22, 27 and 28 marked with 2 notches on S. and 3 notches on E. edges: dig pits 18 x 12 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, mountainous
	Soil, clay 4th rate
	No Timber; shadscale undergrowth on 8.00 chs
	Mountainous land on 80.00 chs.
	Nov. 10, 1903 at this cor. I set off 16° 57' S. on the decl. arc; and, at 12h 00m M. d. m. t. observe the sun on the meridian the resulting lat is 40° 07' N, or within 1' of the proper lat
	N. 89° 58' E. on a random line bet. secs. 22 and 27
40.00	Set temp. 1/4 sec. cor.
80.24	Intersect N. and S. line 20 lks. N. of the cor. of secs. 22, 23, 26 and 27
	Thence I run

Resurvey of subdivisions of T. 4 S. R. 1 W.

Chains	
	N. 89° 53' W. on a true line bet secs. 22 and 27 along top of rolling flat through shadscale and rabbet-brush undergrowth
19.50	Begin descent bears N.E. and S.W.
20.90	Bottom of ravine drains S. 15 ft. below top of bench ascend
23.00	Top of ascent bears N. and S. 15 ft above bottom of ravine, thence along top of flat.
40.12	Set a sandstone 18 X 12 X 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raised a mound of earth 3 1/2 ft. base 1 1/2 ft high N. of cor.
80.24	The cor. of secs. 21, 22, 27 and 28
	Land, level
	Soil, sandy and stony 4th rate
	No Timber; shadscale and rabbet-brush undergrowth on 80.24 chs
	S. 0° 2' E. on a true line bet secs. 27 and 28
2.60	Intersect the South West Boundary of the Uintah Indian Reservation
	Set a sandstone 24 X 12 X 5 ins. 18 ins. in the ground for closing cor. of fract. secs. 27 and 28 marked C.C U I R with 5 grooves on N. 3 grooves on E. and U I R on S. faces dig pits crosswise on each line 3.0 X 2.4 X 1.2 ins. N. 89° 12' E. and S. 89° 12' W. 3 ft. and North of stone 7 ft. dist. and raise a mound of earth 4 ft base 2 ft. high N. of cor
	From this closing cor. the 1/4 mile stone on the boundry bears N. 89° 12' E. 4.91 chs. dist.
	Land, level

Resurvey of Subdivisions of T 4 S, R 1 W.

Soil, sandy and stony 4th rate
No timber Nov. 10, 1903

Nov. 11, 1903 at 9h 00m a.m. l.m.t I set off 40°10'N, on the date arc; 17°11'S, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9
Thence I run
S. 0°3' E. on a true line bet secs. 8 and 9
Descend gently through shadscale and greasewood undergrowth

11.60 Enter dry wash drains S. thence descend gently in bottom of wash

14.10 Leave dry wash drains E. thence ascend gently

37.45 Begin steep ascent bears N.E. and S.W. over sandstone ledges.

38.35 Top of rocky spur projects N.50°E, 30 ft. above beginning of steep ascent descend. begin rocky descent

40.00 Set a sandstone 24 x 12 x 5 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable

40.05 Bottom of rocky descent bears N.E. and S.W. thence gradual descent.

46.40 Bottom of gulch drains N.E, ascend over cliffs and sandstone boulders

63.60 Top of rocky ridge bears E. and W. 150 ft above bottom of gulch descend abruptly over sandstone cliffs and boulders

65.60 Bottom of abrupt descent bears E. and W. 150 ft below top of ridge, descend gently

Resurvey of Subdivisions of T. 4 S. R. 17

Chains	
75.75	Dry wash drains S. 60° W. ascend gently.
78.10	Begin steep ascent bears N. 65° E. and S. 65° W.
80.00	Set a sandstone 18 x 10 x 4 ins 12 ins. in the ground for cor. of secs. 8, 9, 16 and 17 marked with 4 notches on S. and E. edges; and raise a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable Land, mountainous Soil, rocky and sandy 4th rate No Timber; shadscale and greasewood undergrowth on 80.00 chs. Mountainous land on 80.00 chs. Nov. 11, 1903 at this cor I set off 17° 14' S. on the decl. arc; and at 12h 00m m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 09' N. or within 1' of the proper lat.
	N. 89° 57' E. on a random line bet. secs. 9 and 16
40.00	Set temp. 1/4 sec. cor.
80.12	Intersect N. and S. line 10 lks N. of the cor. of secs. 9, 10, 15 and 16 Thence I run N. 89° 59' W. on a true line bet. secs. 9 and 16 Ascend gradually through sandy country through shadscale and rabbit-brush undergrowth
21.90	Wagon Road, Fort Duchesne to Parette Mine bears N. 15° E and S. 15° W.
31.00	Horse trail bears N. 15° E and S. 15° W.
40.00	Set a sandstone 18 x 12 x 4 ins. 12 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	ft. dist. and raise a mound of earth 3½ ft base 1½ ft. high N. of cor.
45.12	Horse trail bears N. E. and S. W.
50.70	Horse trail bears N. E. and S. W.
54.00	Begin steep ascent over sandstone ledges and boulders; bears N. and S.
56.50	Top of spur projects S. 50 ft. above beginning of steep ascent. descend abruptly
59.00	Bottom of steep descent, 50 ft below top of spur, descend gently.
66.00	Bottom of gentle descent begin gentle ascent.
74.00	Begin steep ascent over sandstone boulders and clay slides bears N. E. and S. W.
75.50	Top of ridge spur projects S. 60° W. 75 ft above beginning of steep ascent, descend abruptly.
80.12	The cor. of secs. 8, 9, 16 and 17
26.12 / 54.00	Land, mountainous
	Soil, sandy, stony and clay 4th rate
	No Timber, shadscale and rabbit brush undergrowth on 80.12 chs.
	Mountainous land on 26.12 chs.

Nov. 11, 1903 at 3 h. 00 m. p. m. l. m. t. I set off 40° 09' N, on the lat. arc. 17° 16' S. on the decl arc: and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17

Thence I run

S. 0° 3' E. on a true line bet secs. 16 and 17

ascend over N. W. slope of spur

0.20	Top of spur projects S. 60° W. thence descend abruptly

Resurvey of subdivisions of T. 4 S. R

Chains	
3.00	Bottom of abrupt descent bears N. E. and S. W. descend gently
3.50	Bottom of dry wash drains S. E. ascend gently.
17.50	Top of ridge bears E. and W. descend gently, enter shadscale undergrowth
25.50	Top of spur projects S. W. descend
34.75	Bottom of dry wash 10 ft. wide 8 ft. deep drains S. 65° E. ascend gently.
40.00	Set a sandstone 30 x 6 x 5 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist. and raise a mound of earth 3 1/2 ft. base 1 1/2 ft. high, W. of cor.
41.25	Bottom of dry wash drains E. 15 ft. wide 6 ft. deep ascend gently.
51.50	Top of spur projects N. 70° E. thence gradual descent.
55.50	Horse trail bears N. 65° E. and S. 65° W.
56.20	Dry wash drains N. 65° E. ascend gradually
69.35	Horse trail bears N. E. and S. W.
70.50	Top of low ridge bears N. 75° E. and S. 75° W. descend.
76.10	Wash drains N. 75° E. 30 ft below top of ridge ascend
80.00	Set a sandstone 18 x 7 x 5 ins 12 ins. in the ground for cor. of sec. 16, 17, 20 and 21 marked with 3 notches on S. and 4 notches on E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft high W. of cor. Pits impracticable Land, rolling, nearly level Soil, sandy and clay 4th rate No Timber, shadscale undergrowth on
	62.50 chs.

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	S. 89°59' E. on a random line bet. secs. 16 and 21
40.00	Set temp. 1/4 sec. cor.
80.00	I intersect N. and S. line 10 lks N. of the cor. of secs. 15, 16, 21 and 22
	Thence I run
	N. 89°55' W. on a true line bet. secs. 16 and 21
	ascend gently through shadscale and rabbit-brush undergrowth.
1.15	Horse trail bears N. E. and S. W.
10.00	Begin more abrupt ascent over low sandstone ridge.
13.00	Top of sandstone ridge bears N. W. and S. E. 25 ft above beginning of more abrupt ascent, descend
18.00	Ravine drains S. E. 20 ft. below top of ridge, ascend
20.00	Head of gulch drains N. E.
23.35	Dry wash drains N. E.
28.00	Top of spur projects N. E. 50 ft. above dry wash, descend
33.55	Bottom of ravine drains N. E. 30 ft. below top of spur, ascend
34.00	Horse trail bears N. E. and S. W.
37.35	Horse trail bears N. and S.
39.00	Top of spur projects N. 25 ft. above bottom of ravine, descend
40.00	Set a sandstone 16 x 8 x 5 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.
45.35	Bottom of gulch drains N. 50 ft below top of spur, ascend
51.00	Top of spur projects N. 25 ft above bottom of gulch, descend
53.15	Bottom of ravine drains N. 10 ft. below top of spur, ascend
58.50	Top of spur projects N. 15° W. 25 ft. above bottom of ravine, descend
63.20	Bottom of ravine drains N. 10° E. 25 ft. below top of spur, ascend
69.65	Bottom of ravine drains N. 3 chs

Resurvey of Subdivisions of T. 4 S. R. 1

Chains	
	thence N. E.
74.65	Wagon Road, Fort Duchesne to Parette Mine bears N. E. and S. W.
80.00	Top of spur projects N. E.
	The cor. of secs. 16, 17, 20 and 21
	Land, mountainous
	Soil, rocky and sandy 4th rate
	No Timber, shadscale and rabbit-brush
	- undergrowth on 80.00 chs.
	Mountainous land on 80.00 chs.
	Nov. 11, 1903

Nov. 12, 1903 at 9h 00m a. m. l. m. t. I set off 40°08' N. on the lat. arc 170°28' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 16, 17, 20 and 21

Thence I run

S. 0°3' E. on a true line bet. secs. 20 and 21

Descend over rolling country through shadscale undergrowth

Chains	
3.50	Bottom of descent bears N. E. and S. W. 15 ft below sec. cor. ascend
12.30	Wagon Road, Fort Duchesne to Parette Mine bears N. 25° E. and S. 25° W.
17.00	Top of ascent bears E. and W. 30 ft. above bottom of descent, descend
19.50	Bottom of ravine drains N. 30° E. ascend gently.
40.00	Set a cobble-rock 16 x 8 x 5 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
45.70	Horse trail bears N. E. and S. W.
72.50	Top of ridge bears E. and W. 150 ft. above 1/4 sec. cor. descend
75.60	Bottom of gulch drains E. 40 ft

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	below top of ridge, ascend
80.00	Set a sandstone 18x8x8 ins. 12 ins. in the ground for cor. of secs. 20, 21, 28 and 29 marked with 2 notches on S. and 4 notches on E. edges dig pits 18x18x12 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, mountainous
	Soil, sandy and rocky 4th rate
	No Timber, shadscale and rabbit-brush undergrowth on 80.00 chs.
	mountainous land on 80.00 chs.
	Nov. 12, 1903 at this cor. I set off 17° 31' S. on the diel. arc; and at 12h 00m M. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 07' N. or within 1' of the proper lat.
	S. 89°55' E. on a random line bet. secs. 21 and 28
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect N. and S. line 4 lks S. of the cor of secs: 21, 22, 27 and 28
	Thence I run
	N. 89°57' W. on a true line bet. secs. 21 and 28
	Along top of flat through shadscale undergrowth.
37.70	Head of gulch drains N. 10 ft below top of flat. ascend
38.50	Top of small spur projects 10 ft above Head of draw descend
39.90	Bottom of gulch drains N. 10 ft below top of spur. ascend
39.98	Set a sandstone 14x8x8 ins 9 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face and raise a mound of stone 2 ft base 1 1/2 ft high N. of

Chains	
	cor. Pits impracticable
40.50	Small spur projects N. 10 ft. above bottom of gulch. descend
42.10	Small Ravine drains N. 15 ft. below top of spur
44.85	Bottom of gulch drains N.E. thence gradual ascent
62.00	Top of ascent bears N.E. and S.W. descend gradually
64.00	Small ravine drains N. 10 ft. below top of ascent. ascend gently
65.85	Small gulch drains N.E.
71.00	Dry wash drains N. 70° E.
79.96	The cor. of secs. 20, 21, 28 and 29
	Land, rolling
	Soil, sandy, rocky and clay 4th rate
	No Timber; shadscale undergrowth on 79.96 chs.

S. 0° 3' E. on a true line bet secs. 28 and 29 over level ground through shadscale undergrowth.

3.85 Intersect the South West Boundary of the Uintah Indian Reservation set a sandstone 18 x 12 x 5 ins, 12 ins. in the ground for closing cor. of fracl. secs. 28 and 29 marked C C U I R with 5 grooves on N. 4 grooves on E. and U U I R on S. faces; dig pits crosswise on each line 30 x 24 x 12 ins N 89° 22' E., and S. 89° 22' 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.

From this closing cor. the 15 Mile cor. bears N. 89° 22' E. 4.22 chs. dist.

Land, level

Soil, rocky 4th rate

Resurvey of Subdivisions of T. 45 S. R. 1 W.

Chains	
	No Timber; shadscale undergrowth on 3.85 chs. Nov. 12. 1902.
	Nov. 13, 1902 at 9 h. 00 m. a. m. l. m. t. I set off 40° 10' N. on the lat. arc; 17° 44' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8 Thence I run S. 0° 4' E. on a true line bet secs. 7 and 8 ascend over rolling W. slope of ridge
5.00	Top of small spur projects S. W. 70 ft. above sec. cor. descend gently along W. slope of ridge
33.55	Top of ridge bears E. and W. begin more abrupt descent.
40.00	Set a sandstone 18 x 8 x 6 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; and raise a mound of stone 2 ft base 1½ ft. high W. of cor. Pits impracticable
40.55	Bottom of gulch drains S. E. 100 ft. below top of ridge. ascend
42.10	Top of sand-ridge bears E. and W. 30 ft. above bottom ~~bottom~~ of gulch descend
45.80	Bottom of gulch drains S. W. 20 ft. below top of sandridge ascend
52.80	Top of rocky spur projects W. 50 ft. above bottom of gulch begin rocky descent over sandstone boulders and cliffs.
61.00	Head of draw drains W. 50 ft. below top of rocky spur. ascend
64.50	Top of rocky spur projects N. W. 15 ft. above head of draw, descend
65.80	Head of gulch drains W. 20 ft below top of spur, ascend

Resurvey of Subdivisions of T. 4 S. R. 17

Chains	
67.00	Top of rocky ridge bears E. and W. 30 ft. above head of gulch thence abrupt descent over sandstone ledges and boulders
67.20	Ledge 25 ft. high bears E. and W.
69.50	Bottom of abrupt descent bears E. and W. thence gradual descent over boulders 100 ft below top of ridge
76.50	Ledge 20 ft high bears E and W. descend over same
79.00	Dry wash drains S. E. 10 ft wide 6 ft. deep.
79.40	Dry wash drs. E. 5 ft wide 4 ft. deep
80.00	Set a sandstone 36 x 12 x 12 ins 27 ins. in the ground for cor. of secs. 7, 8, 17 and 18 marked with 4 notches on S and 5 notches on E. edges. and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land, mountainous Soil, rocky and sandy 4th rate No timber Mountainous land on 80.00 Chs. Nov. 13, 1903 At this cor. I set off 17° 46' S. on the decl. arc; and, at 12h 00m m. l.m.t. observe the sun on the meridian the resulting lat is 40° 09' N, or within 1' of the proper lat.
	S. 89° 54' E. on a random line bet. secs. 8 and 17
40.00	Set temp. ¼ sec. cor.
80.08	Intersect N. and S. Line 7 lks S of the cor. of secs 8, 9, 16 and 17 Thence I run N. 89° 57' W. on a true line bet. secs 8 and 17 Descend over N. W. Slope of spur

Resurvey of Subdivisions of T.4S.R.1W

Chains	
1.10	Bottom of descent bears N.E and S.W, 50 ft. below sec. cor. thence gradual descent
5.40	Bottom of dry wash drains S.E. ascend gently through shadscale and rabbitbrush undergrowth.
10.40	Small rocky spur projects S.W. begin gradual descent.
13.00	Bottom of descent thence gradual ascent.
18.00	Bottom of dry wash drains N.E.
33.50	Top of ridge bears N.W. and S.E. 50 ft. above bottom of dry wash, descend.
40.04	Set a sandstone 18 x 8 x 4 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft base 1 1/2 ft. high N. of Cor. Pits impracticable
59.85	Dry wash 20 ft wide 10 ft deep drains S.50° E. 150 ft below top of ridge ascend gently
61.75	Horse trail bears N.50° W and S.50° E.
71.50	Horse trail bears N.E and S.W.
72.10	Bottom of dry wash drains drains N.E. thence along bottom of same
74.00	Leave dry wash heads N.70° W.
80.00	The cor. of secs. 7, 8, 17 and 18

Land mountainous

Soil, sandy and rocky 4th rate

No Timber, shadscale and rabbitbrush on 74.60 chs.

Mountainous land on 80.00 chs.

Nov 13, 1903 at 3h 00m p.m. l.m.t. I set off 40°09' N. on the lat. arc; 17°48' S. on the decl. arc; and determine a meridian with the solar at the

Resurvey of Subdivisions of T. 45 S. R. 1 W.

Chains	
	Cor. of secs. 7, 8, 17 and 18
	Thence I run
	S. 89° 53' W. on a random line bet. secs. 7 and 18
4.00	Set temp. 1/4 sec. cor.
27.25	I intersect the West Bdy. of the township 25 lks. S. of the cor of secs. 7, 12, 13 and 18
	Thence I run
	S. 89° 56' E. on a true line bet. secs. 7 and 18
	Descend gradually over rolling sandy country through shadscale undergrowth
0.60	Horse trail bears N. E. and S. W.
37.25	Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
37.30	Small ravine drains N.
51.95	Horse trail bears N. and S.
52.25	Small ravine drains N. ascend
53.75	Small spur projects N. descend
64.90	Ravine drains N. 65° E.
68.55	Horse trail bears N. W. and S. E.
77.25	The cor. of secs. 7, 8, 17 and 18
	Land, nearly level
	Soil, sandy and stony loam 4th rate
No	Timber; shadscale undergrowth on 77.25 chs.
	Nov. 13, 1903

Nov. 14 1903 at 9h 00m a. m. l. m. t. I set off 40° 09' N. on the lat. arc; 18° 00' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18

Thence I run

S. 0° 4' E. on a true line bet. secs. 17 and 18

Over gradually ascending land through shadscale and greasewood undergrowth

1.40	Dry wash 6 ft. wide 4 ft. deep drains E.

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains.	
2,95	Horse trail bears N. E. and S. W.
7,20	Top of spur projects E. descend gently.
13,00	Dry wash drains N. E. ascend gradually
40,00	Set a sandstone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; dig pits 18 x 18 x 12 ins. N. and S. of stone 3 ft. dist and raise a mound of earth 3 1/2 ft. base 1 1/2 ft high W. of cor.
59,50	Top of low ridge bears E. and W. descend gently
75,20	Dry wash drains E. ascend
80,00	Set a sandstone 16 x 8 x 6 ins. 11 ins. in the ground for cor. of secs. 17, 18, 19 and 20 marked with 3 notches on S. and 5 notches on E. edges. 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, rolling, nearly level
	Soil, sandy and clay 4th rate
	No Timber; greasewood and shadscale undergrowth on 80,00 chs.
	Nov. 14, 1903 at this cor. I set off 18° 03' S. on the decl. arc; and, at 11h 56m a.m. observe the sun on the meridian the resulting lat. is 40° 08' N. or within 1' of the proper lat.
	S. 89° 57' E. on a random line bet. secs. 17 and 20
40,00	Set temp 1/4 sec. cor.
79,90	Intersect the 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 shadscale and rabbit-brush undergrowth

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
4.00	Bottom of dry wash 30 ft. wide 10 ft. deep drains N. E. 30 ft. below sec. cor. ascend
7.80	Horse trail bears N. E. and S. W.
11.85	Horse trail bears N. E. and S. W.
37.00	Top of spur projects N. 100 ft. above bottom of dry wash, descend
39.90	Bottom of gulch drains N. 25 ft. below top of spur, ascend
39.95	Set a sandstone 16 x 12 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable
44.50	Small spur projects N. 15 ft. above bottom of gulch, descend
46.75	Dry wash drains N. 10° W. 15 ft. below top of spur, ascend gently
49.10	Dry wash drains N. E.
63.15	Dry wash drains N. 50 ft. above last dry wash.
79.90	The cor. of secs. 17, 18, 19, 20
	Land, rolling
	Soil, sandy and clay 4th rate
	Timber; shadscale and rabbit-brush undergrowth on 79.90 chs.
	N. 89° 56' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. 1/4 sec. cor.
77.23	Intersect the West Bdy. of the township 4 chs. N. of the cor. of secs. 13, 18, 19 and 24
	Thence I run
	S. 89° 58' E. on a true line bet. secs. 18 and 19 over level rolling country through shadscale undergrowth.
37.23	Set a sandstone 12 x 12 x 4 ins. 8 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins

Resurvey of Subdivisions of T. 45 R 1 W.

Chains	
	E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
14.35	Bottom of dry wash drain N.E. descend
77.23	The cor. of secs. 17, 18, 19 and 20
	Land, rolling nearly level
	Soil, sandy 4th rate
	Timber, chaparral undergrowth on 77.23 chs.

Nov. 14 1903 at 3h 00m p.m. l.m.t I set off 40° 08' N. on the lat. arc; 18° 05' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20

Thence I run

S. 0° 4' E. on a true line bet. secs. 19 and 20 ascend gently through chaparral and greasewood undergrowth

11.00	Top of ascent bears E. and W. descend
29.10	Bottom of gulch drains E. 30 ft. below top of ascend, ascend
8.60	Top of ridge projects E. 30 ft. above bottom of gulch, descend
10.00	Set a sandstone 24 x 10 x 5 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
12.00	Bottom of gulch drains S.E. thence ascend along W. side of gulch draining N.E.
[illegible]	Top of ridge bears N. 10° E. and S. 10° W.
[illegible]	Bottom of gulch drains N.E.
52.50	Bottom of gulch drains N.W.
[illegible]	Bottom of ravine drains N.E. thence gradual ascent, over rolling clay hills
[illegible]	Set a sandstone 24 x 12 x 6 ins. 15 ins. in the ground for cor. of secs. 17, 20,

Resurvey of Subdivisions of T. 4 S. R. 1 W.

Chains	
	29 and 30 marked with 2 notches on S. and 5 notches on E. edges; dig pits 18 X 18 X 12 ins. in each sec. 5½ ft. dist. and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits. impracticable
	Land, rolling
	Soil, clay and sandy. 4th rate
	No Timber; shadscale and greasewood undergrowth on 80.00 chs.
	S. 89°57' E. on a random line bet. secs. 20 and 29
40.00	Set a temp. 1/4 sec. cor.
80.00	Intersect N. and S. line 10 lks. S. of the cor. of secs. 19, 20, 29 and 30.
	Thence I run
	S. 89°59' W. on a true line bet. secs. 20 and 29 ascend gently over rolling flat through shadscale undergrowth.
9.00	Top of ascent, descend gently.
11.45	Bottom of gulch drains N. E. ascend gradually
32.40	Wagon Road, Fort Duchesne to Pariette Mun. bears N. 25° E. and S. 25° W.
40.00	Set a cobble rock 18 X 10 X 8 ins. 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 X 18 X 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.
80.00	The cor. of secs. 19, 20, 29 and 30
	Land rolling, nearly level
	Soil, sandy and stony 4th rate
	No Timber; shadscale undergrowth on 80.00 chs.

Resurvey of Subdivisions of T. 43 R. 1[illegible]

Chains	
	N. 89° 51' W. on a random line bet. secs. 19 and 30
4.00	Set temp. [illegible] cor.
77.26	Intersect the W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 19, 24, 25 and 30
	Nov. 15 1903 at 5h 00m a.m. [illegible] I set off 40° 07' N. on the lat. arc; 18° 15' E. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30
	Thence I run
	East on a true line bet. secs. 19 and 30
	Descend over rolling land through scattering shadscale
1.00	Bottom of gulch drain N.E. ascend
4.75	Top of ascent bears N. and S. 25 ft. above sec. cor. descend
17.00	Head of gulch drain N. 80° E. 30 ft. above bottom of descent, ascend gradually
37.26	Set a sandstone 14 x 12 x 4 in. 9 in. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. [illegible] impracticable
38.75	Bottom of descent bears N. and S. 30 ft. below head of gulch, ascend
43.25	Top of ascent bears N. and S. 25 ft. above bottom of descent, descend
64.11	Horse trail bears N.E. and S.W.
68.75	Bottom of gulch drain N.E. 150 ft. below top of ascent, ascend
74.25	Top of ascent thence gradual descent
77.26	The cor. of secs. 19, 30, 29 and 30
	Land, mountainous
	Soil, sandy loam 4th rate
	Timber, scattering shadscale undergrowth in 77.26 chs.
	Mountainous land in 77.26 chs.
	Nov. 15 1903 at this cor. I set off 18° 19' S. on the decl. arc; and at 11h 56m observe the sun on the meridian the resulting lat. is 40° 07' or within 1' of the proper lat.

Chains | Resurvey of Subdivisions of T. 4 S. R. 1

S. 0°4' E. on a true line bet. secs. 29 and 30
over rolling flat through shadscale
undergrowth.

4,57 Intersect the S. W. Bdy. of the
Uintah Indian Reservation
Set a sandstone 30 x 24 x 5 ins. 23 ins.
in the ground for closing cor. of fract.
secs. 29 and 30 marked C. C. U I R with 5
grooves on E. and U U I R on S. faces;
dig pits crosswise on each line
30 x 24 x 12 ins. N. 89°32' W and S. 89°32' E.
3 ft. and N. of stone 7 ft. dist.
and raise a mound of earth 4 ft.
base 2 ft. high N. of cor.
From this closing cor. the 16 mile
corner on the boundary as established
by Deputy Dougall bears S. 89°32' E.
4.15 chs. dist.
Land, rolling; nearly level
Soil, rocky and stony 4th rate
No Timber, shadscale undergrowth on 4.57 chs.

Nov. 14, 1903

For "General Description" see
Notes of Subdivisions of T. 4 S. R. 1 W.

Harry Rager
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, an marking the lines and corners described in the foregoing field notes of the ~~survey of~~ Resurvey of Subdivision Lines of T. 45 S. R 1 W of the Salt Lake Base & Meridian Utah showing the respective capacities in which they acted:

Chas T. Nye, *Chainman.*
Stephen Adams, *Chainman.*
Albert Pace, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying al those parts or portions of the Resurvey of Subdivision Lines of T. 45 S. R 1 W. of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Chas. T. Nye, *Chainman.*
Stephen Adams, *Chainman.*
Albert Pace, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

Subscribed and sworn to before me this 7th day of December, 1903 ~~189~~

SEAL

Harry Rogers
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson United States Surveyor General for Utah, bearing date of the 22nd day of July 1903, 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 Resurvey of Subdivision Lines of T. 4 S. R. 1 W.

of the Utah Special 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.

Harry Rager
United States Deputy Surveyor.

Subscribed by said Harry Rager, and sworn to before me this 28th day of January 1904

Edward H. Anderson
U.S. Surveyor General for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 30 1904, 189

The foregoing field notes of the survey of the subdivisional lines of Township 4 South Range 1 West of the Utah Special Base & Meridian, Utah,

executed by Robert E. Collins & Harry Rager under contract No. 269, dated July 20 1903, 189, 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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Jan 28/04
V. J.
K. S.

BOOK A-306

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FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

of

Township No 4 South Range No. 1 West

Of the Uintah Special Base and Meridian,

In the State of Utah

AS SURVEYED BY

Robert E. L. Collier and Harry Rogers, United States Deputy Surveyor

Under ~~his~~ their Contract No. 269, dated July 22nd, ~~189~~ 190

Survey commenced Nov. 16, ~~189~~ 190

Survey completed Nov. 17, ~~189~~ 190

6—151

Length - 1.18.45 ✓
Low 2.58.97 ✓
Closing 3.87 ✓

NAMES AND DUTIES OF ASSISTANTS.

Chas. T. Nye	Chainman
Stephen adams	Chainman
albert Pace	Moundsman
Leon Smith	Flagman

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BOOK A-305

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, Chas T. Nye and Stephen Adams 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 Subdivision Lines of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Chas T. Nye, Chainman.

Stephen Adams, Chainman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U.S. Deputy Surveyor

~~WE~~ I, Albert Pace 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 Subdivision Lines of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Albert Pace, Moundman.

, Moundman.

Subscribed and sworn to before me this 22nd day of October, 1903 ~~189~~

SEAL

Harry Rogers
U.S. Deputy Surveyor

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, Leon Smith, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision Lines of T. 4 S. R. 1 W. of the Uinta Special Base & Meridian Utah

Leon Smith, Flagman.

Subscribed and sworn to before me this 22 day of October, 1903 ~~189~~

SEAL

Harry Rogers
U.S. Deputy Surveyor

6—151

Subdivisions of T. 4 S. R. 1 W.

Chains

Survey commenced Nov. 16, 1903 and executed with a W. and L. E. Gurley light mountain transit (not numbered), with solar attachment, for a description of which see Notes of Retracement Lines of T. 2 S. R. 1 E. in Book "A"

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

At the cor. of secs. 1, 2, 11 and 12 latitude 4° 10' N.; longitude 109° 59' 22" W. at 2h 30m a.m. l.m.t. I set off 40° 10' N. on the lat. arc; 18° 35' S. on the decl. arc; and determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station

Nov. 17 at 3h 36m a.m. by my watch which is 4m 00s slow 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

Nov. 17, 1903 at 7h 00m a.m., l.m.t. I lay off the azimuth of Polaris 1° 35' to the East and mark the meridian thus determined, by cutting a small groove in the stone set Nov. 16 on which the meridian falls 0.3 ins east of the mark determined by

Subdivisions of T. 4 S. R. 1 W.

Chains

the solar.
at 9h 00m a. m. l. m. t. I set off 40° 10' N. on the lat. arc; 18° 49' 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 0.2 ins. east of the meridian established by the Polaris observation.
The solar apparatus, by p. m. and a. m. observations defines the positions for meridians, respectively about 16" west and 10" east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.
The magnetic bearings of the true meridian, at 9h a.m. is N. 16° 25' W.; the angle thus determined gives the mag. decl. 16° 25' E.

From the cor. of secs. 1, 2, 11 and 12 already described I run
East on a random line bet. secs. 1 and 12
40.00 Set temp. 1/4 sec. cor.
79.70 Intersect the Uintah Special Meridian 16 lks. N. of the cor. of secs. 1, 6, 7 and 12
Thence I run
N. 89° 53' W. on a true line bet. secs. 1 and 12
Over gradually ascending land through shadscale undergrowth
3.25 Top of ascent bears N. 75° W. and S. 75° E.
begin steep descent.
5.50 Foot of steep descent bears N. 75° W. and S. 75° E.
thence gradual descent over rolling country.

Subdivisions of T. 4 S. R. 1 W.

Chains	
39.70	Set a sandstone 15 x 10 x 4 ins. 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft dist., and raise a mound of earth 3½ ft. base 1½ ft. high. N. of cor.
44.00	Begin abrupt descent over sandstone bluff bears N.W. and S.E.
44.50	Bottom of abrupt descent bears N.W. and S.E. 30 ft. below beginning thence gradual descent.
60.00	Begin gradual ascent bears N. and S.
69.95	Horsetrail bears N.W. and S.E.
79.70	The cor. of secs. 1, 2, 11 and 12.
	Land, nearly level
	Soil, rocky and sandy 4th rate.
	No Timber; shadscale undergrowth on 79.70 Chs.

From the cor. of secs. 11, 12, 13 and 14 heretofore described, I run S. 89° 53' E. on a random line bet secs. 12 and 13

40.00	Set temp. 1/4 sec. cor.
79.41	I intersect the Uintah Special Meridian 60 lks N. 0° 08' E of cor. of secs. 7, 12, 13 and 18 As this falling exceeds the limits prescribed in the Manual, at my point of intersection I set a sandstone 30 x 15 x 5 ins. 22 ins. in the ground for closing cor. of secs. 12 and 13 marked C. C. on W.; with 2 grooves on N. and 4 grooves on S. faces; and raise a mound of stone 2 ft base 1½ ft. high W. of Cor. Pits impracticable. I destroy all marks pertaining to secs. 12 and 13 on the old cor. Nov. 17, 1903 at 10 h 00m a. m. l. m. t. I set off 40° 09' N. on the lat. arc; 18° 48' S. on the decl. arc; and determine a meridian with the solar at the closing cors. of secs. 12 and 13

Subdivisions of T. 14 S. R. 1 W.

Chains	
	Thence I run
	N. 89°53' W. on a true line bet. secs. 12 and 13
	ascend over sandy country through
	shadscale undergrowth.
1.60	Top of sandstone spur projects S. 25 ft.
	above closing cor. thence gradual descent
	along S. slope of bluff.
8.40	Bottom of descent, ascend
13.00	Top of ridge bears N. and S. 25 ft. above
	beginning of ascent. descend gradually
	over rolling country
15.40	Horse trail bears N. and S.
18.55	Horse trail bears N. and S.
20.05	Horse trail bears N. and S.
30.00	Dry wash drains S. 30° W. ascend gradually
39.41	Set a sandstone 15 X 11 X 4 ins. 10 ins. in the
	ground for 1/4 sec. cor. marked 1/4 on N.
	face; and raise a mound of stone 2 ft.
	base 1½ ft high N. of cor. Pits impracticable
53.00	Begin abrupt ascent bears N. E and S. W.
62.50	Top of rough and rocky spur projects
	S. 150 ft. above beginning of abrupt
	ascent. descend abruptly.
72.15	Bottom of abrupt descent bears N. 75° W.
	and S. 75° E. 150 ft. below top of spur
	thence gradual ascent.
79.41	The cor. of secs. 11, 12, 13 and 14
	Land, mountainous.
	Soil, rocky and sandy 4th rate
19.15 / 60.26	No Timber, shadscale undergrowth on 79.41 chs.
	Mountainous land on 19.15 chs.
	Nov. 17, at this cor. I set off 18°49' S. on
	the decl. arc; and, at 12h 00m m.l.m.t. observe
	the sun on the meridian. the resulting
	lat is 40° 09' N, or within 1' of the proper
	lat

From the Cor. of secs. 13, 14, 23 and 24 -
Heretofore described I run -
S. 89°53' E. on a random line bet. secs. 13 and 24

Subdivision of T. 4 S. R. 1 W.

Chains	
40.00	Set temp. 1/4 sec. cor.
79.30	I intersect the Mt. Diablo Special meridian 130 lks. N. 0°12' E. of cor. of secs. 13, 14, 23 and 24 as this falling exceeds the limits prescribed in the manual, at my point of intersection I set a sandstone 14 x 11 x 7 ins. 9 ins. in the ground for closing cor. of secs. 13 and 24 marked C.C on W. with 3 grooves on N. and S. faces; and raise a mound of stone 2 ft. base 1½ ft. high. W. of cor. Pits impracticable and destroy all marks pertaining to secs. 13 and 24 on the old cor.
	Thence I run N. 89°53' W. on a true line bet. secs. 13 and 24 over gradually ascending rolling country through chaparral undergrowth.
1.30	Dry wash drains S. E.
31.50	Begin rough ascent bears N. 60° W. and S. 60° E.
39.30	Set a sandstone 30 x 20 x 11 ins. 22 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
40.00	Top of ridge bears N. 60° W. and S. 60° E. 40 ft. above beginning of rough ascent
43.50	Bottom of dry wash drains S. E. ascend gradually.
56.00	Foot of ridge bears N. 80° W. and S. 80° E. ascend along N. slope.
63.20	Top of small spur projects S. E. 70 ft. above foot of ridge, descend
64.20	Bottom of gulch drain N. 20 ft. below top of spur, ascend
77.00	Top of Plateau bears N. 75° E. and S. E. 50 ft. above bottom of gulch, thence along top of rolling plateau
79.30	The cor. of secs. 13, 14, 23 and 24
	Land, mountainous

Subdivisions of T. 4 S. R. 1 W.

Chains

Soil, rocky and stony 4th rate
No Timber; shadscale undergrowth on 79.30 chs.
Mountainous land on 79.30 chs.

From the cor. of secs. 23, 24, 25 and 26 heretofore described I run
S. 89° 53' E. on a random line bet. secs. 24 and 25
11.00 Set temp 1/4 sec. cor.
19.01 I intersect the Uintah Special Meridian at a point 1.97 chs N. 0° 14' E. of cor. of secs. 19, 24, 25 and 30.
As this falling exceeds the limits prescribed in the Manual, at my point of Intersection I set a sandstone 36 x 16 x 4 ins. 27 ins. in the ground for closing cor. of secs. 24 and 25 marked C C on W. with 4 grooves on N. and 2 grooves on S. faces; and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable and destroy all marks pertaining to secs. 24 and 25 on the old cor.
Nov. 17, 1903. at 3h 00m p. m. l. m. t. I set off 40° 07' N. on the lat. arc; 18° 51' S. on the decl. arc; and determine a meridian with the solar at the closing cor. of secs. 24 and 25
Thence I run
N. 89° 53' W. on a true line bet. secs. 24 and 25
Descend along N. slope of wash through shadscale undergrowth.
1.10 Bottom of Dry wash. drains S. 75° E. thence gradual descent
10.35 Dry wash drains S. 60° E. ascend gradually
39.01 Set a sandstone 18 x 6 x 6 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on N. face; dig pits 18 x 18 x 12 ins. E. and W. of stone 3 ft. dist. and raise a mound of earth 3½ ft. base 1½ ft. high N. of cor.

Subdivisions of T. 4 S. R. 1 W.

Chains	
63.00	Top of spur projects S. thence gradual descent.
79.01	The cor. of secs. 23, 24, 25 and 26
	Land, rolling
	Soil, sandy 4th rate
	No Timber; shadscale undergrowth on 79.01 chs.

General Description -

This township contains nearly every kind of land from level to mountainous

The soil is all sandy, rocky, stony, or clay of the fourth rate and nothing but shadscale undergrowth and a scant growth of grass grows upon it.

There is no water upon the township and the only water source would be the Dulcheme River, and I think a canal line has been run through this township by the Geological surveyors but do not think it was for the purpose of irrigating this township but some land farther south east, as the land in this township would be no good for farming even with an abundance of water.

There is no timber upon the township except undergrowth, and no settlers, Herds of Indian horses graze upon the benches in this township in the fall and winter months.

There are no indications of mineral upon the township.

Harry Rogers
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 Harry Rogers, United States Deputy Surveyor, to assist in running, measuring, an marking the lines and corners described in the foregoing field notes of the survey of Subdivision Lines of T. 4 S. R. 1 W. of the Salt Lake Special Base and Meridian Utah showing the respective capacities in which they acted:

Chas T. Nye, *Chainman*
Stephen Adams, *Chainman*
Albert Pace, *Moundman*
, *Moundman*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harry Rogers, United States Deputy Surveyor, in surveying a those parts or portions of the Subdivision Lines of T. 4 S. R. 1 W. of the Salt Lake Special Base and meridian, State of Utah, which are represente in the foregoing field notes as having been surveyed by him and under his direction; and that said surve has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and th corner monuments established, according to the instructions furnished by the United States Surveyo General for Utah

Chas T. Nye, *Chainman.*
Stephen Adams, *Chainman.*
Albert Pace, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
Leon Smith, *Flagman.*

Subscribed and sworn to before me this 7th day of December, ~~189~~ 1903

Harry Rogers
U. S. Deputy Surveyor

SEAL

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harry Rager, United States Deputy Surveyo
solemnly swear that, in pursuance of a contract received from Edward H. Anders
United States Surveyor General for Utah, bearing date o
22nd day of July, 1903, 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 Utah, the Manual of Surveying Instructions, and the laws o
United States, surveyed all those parts or portions of The Subdivision
Lines of T. 4 S. R. 1 W.

of the Uintah Spec
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 solen
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.

Harry Rager
United States Deputy Surve

Subscribed by said Harry Rager, and sworn to before me
this 28th day of January, 1904

Edward H. Anderson
U.S. Surveyor-General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, June 30, 1904. 189

The foregoing field notes of the survey of The Subdivisional Lines of
Township 4 South, Range 1 West of the Uintah Special
Base & Meridian, Utah

executed by Wilcox & Collier for Harry Rager
under his contract No. 269, dated July 22, 1903, 189, having be
critically examined, and the necessary corrections and explanations made, the said field notes, and t
surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor Gener

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

United States Surveyor Gener

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