Volume

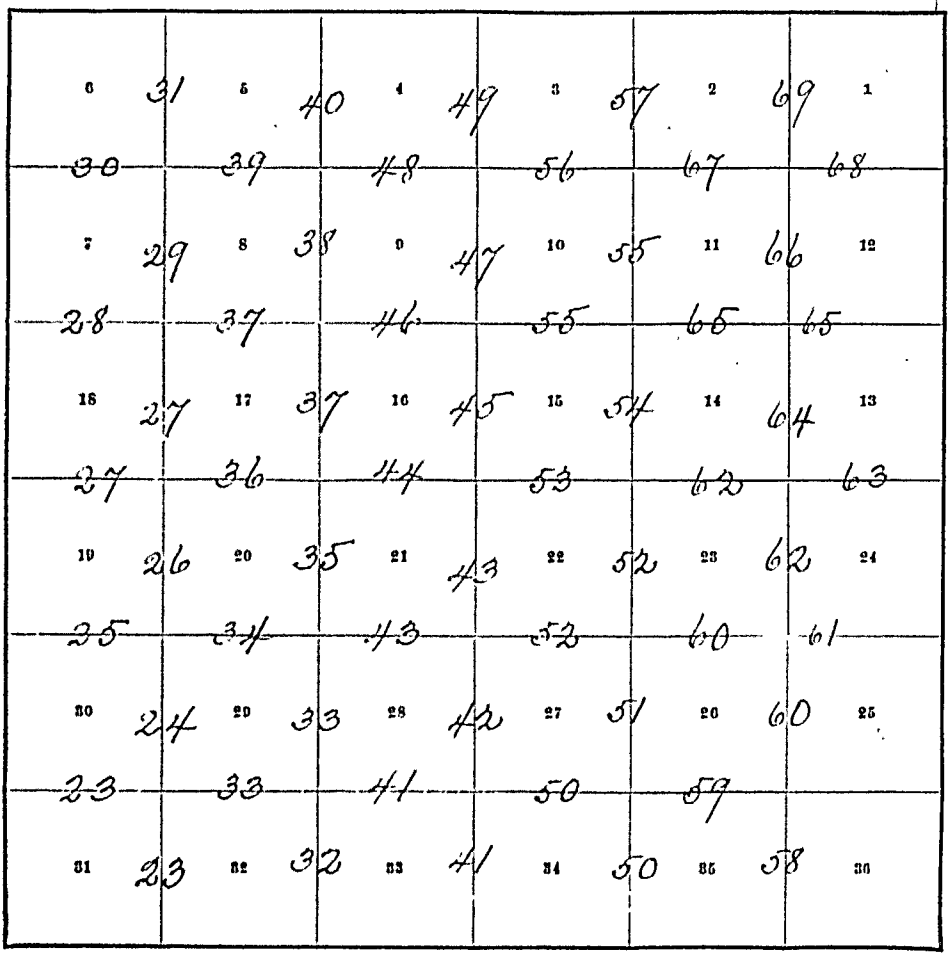
# #

R0305

BOOK A-305

INDEX DIAGRAM.

Township 4 N., *Range* 1 W.



Meanders Page 7 1

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____

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

_____

_____, *Chainman.*

_____, *Chainman.*

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

SEAL

_____

_____

We, _____ and _____

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

_____

_____, *Moundman.*

_____, *Moundman.*

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

SEAL

_____

_____

We, _____ and _____

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

_____

_____, *Axman.*

_____, *Axman.*

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

SEAL

_____

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

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day of _____, 189 }

SEAL

_____

_____

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INDEX DIAGRAM.

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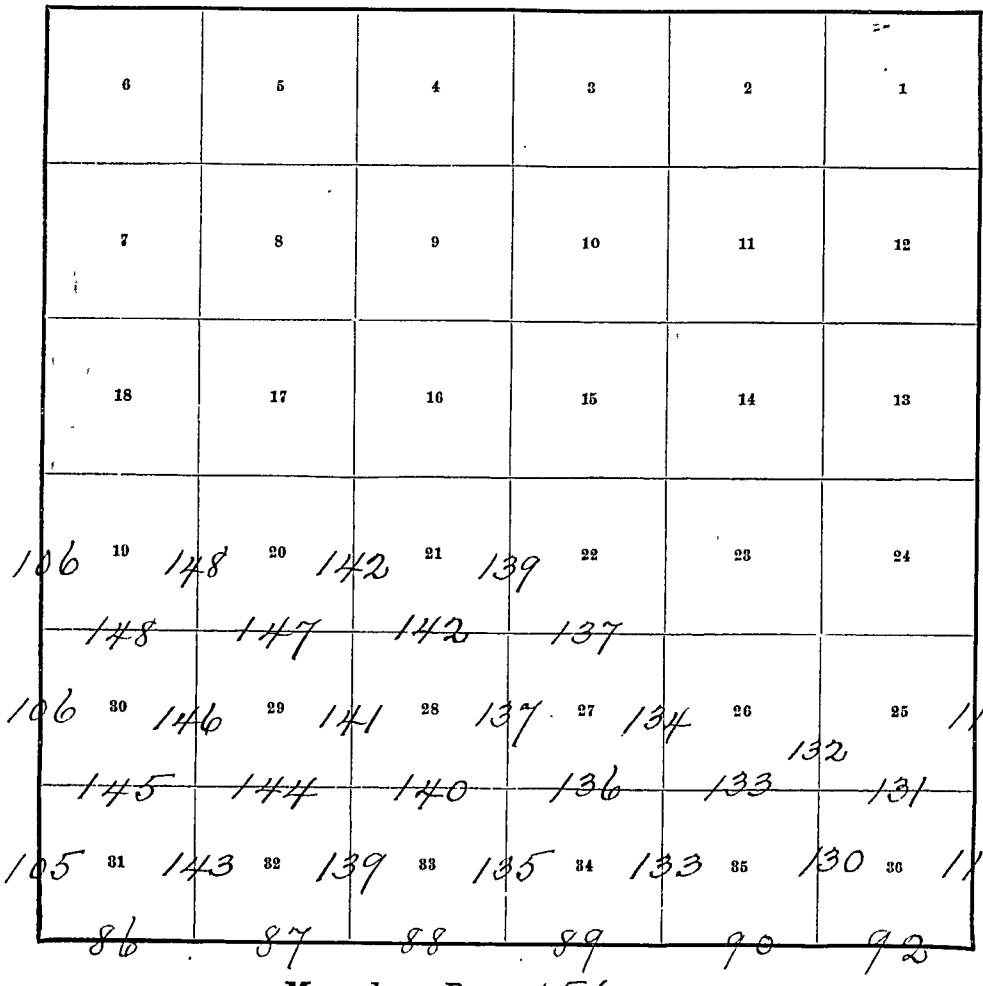

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PRELIMINARY OATHS OF ASSISTANTS.

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

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_____, *Chainman.*

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 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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_____, *Chainman.*

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

SEAL

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_____, *Moundman.*

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

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_____, *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 _____

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

SEAL

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Township 5 N., *Range* 1 E.

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Meanders Page.....

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_____, *Moundman.*

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

SEAL

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_____, *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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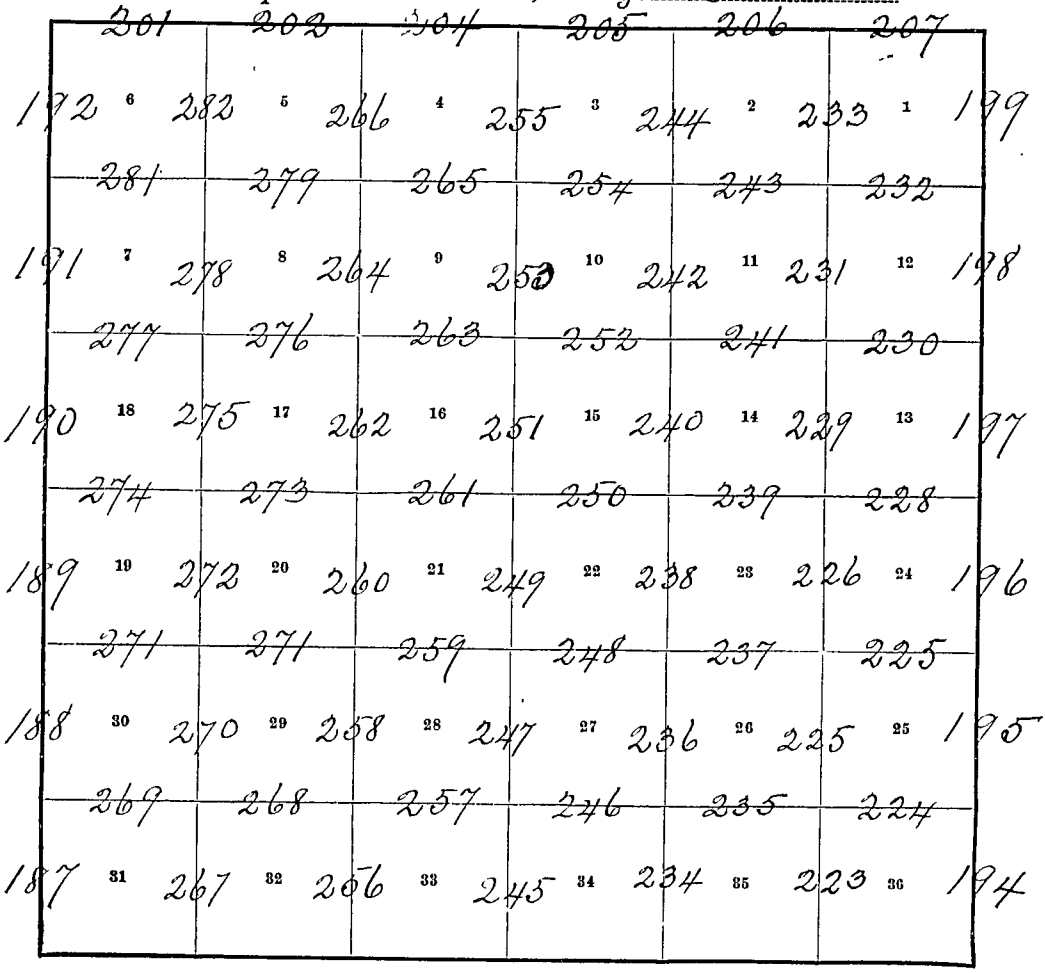
INDEX DIAGRAM.

Township 2 N., *Range* 3 W.



Meanders Page.....

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_____, *Chainman.*

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day of _____, 189

SEAL

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WE, _____ and _____
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day of _____, 189

SEAL

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day of _____, 189

SEAL

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

_____, *Flagman.*

ubscribed and sworn to before me this _____
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SEAL

_____

_____

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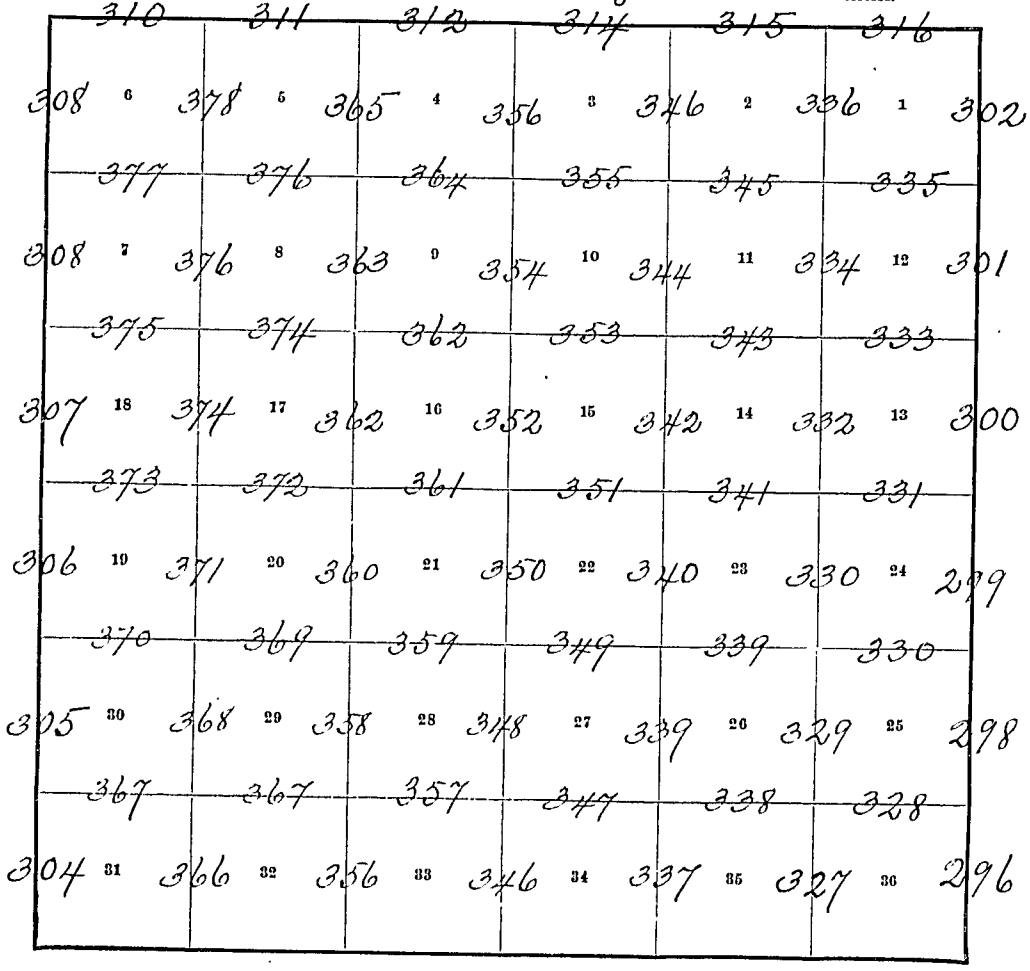

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____, *Chainman.*

_____, *Chainman.*

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

_____

SEAL

_____

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

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_____, *Moundman.*

_____, *Moundman.*

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

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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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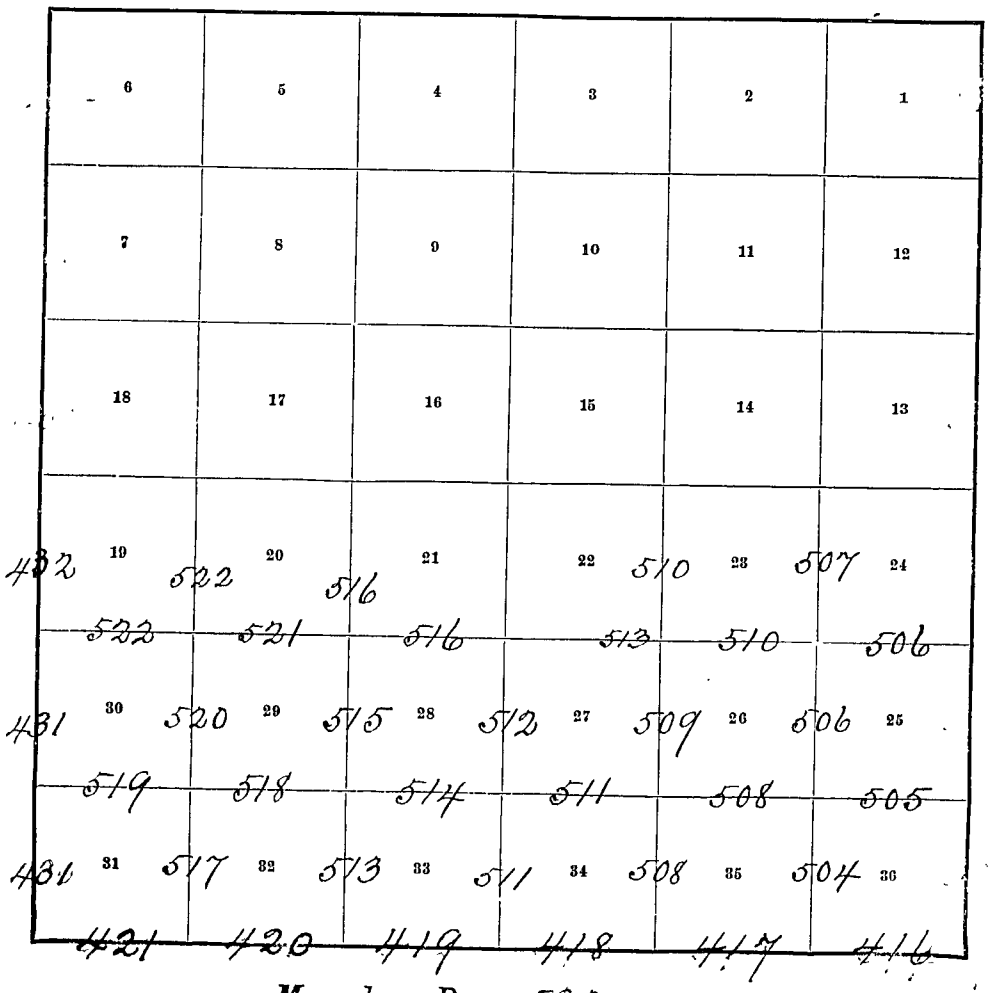
Township 5 N., *Range* 2 W.



Meanders Page 522

PRELIMINARY OATHS OF ASSISTANTS.

We, ... and .....
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.....

..... *Chainman.*

..... *Chainman.*

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

SEAL

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

.....

..... *Moundman.*

..... *Moundman.*

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

SEAL

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

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..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

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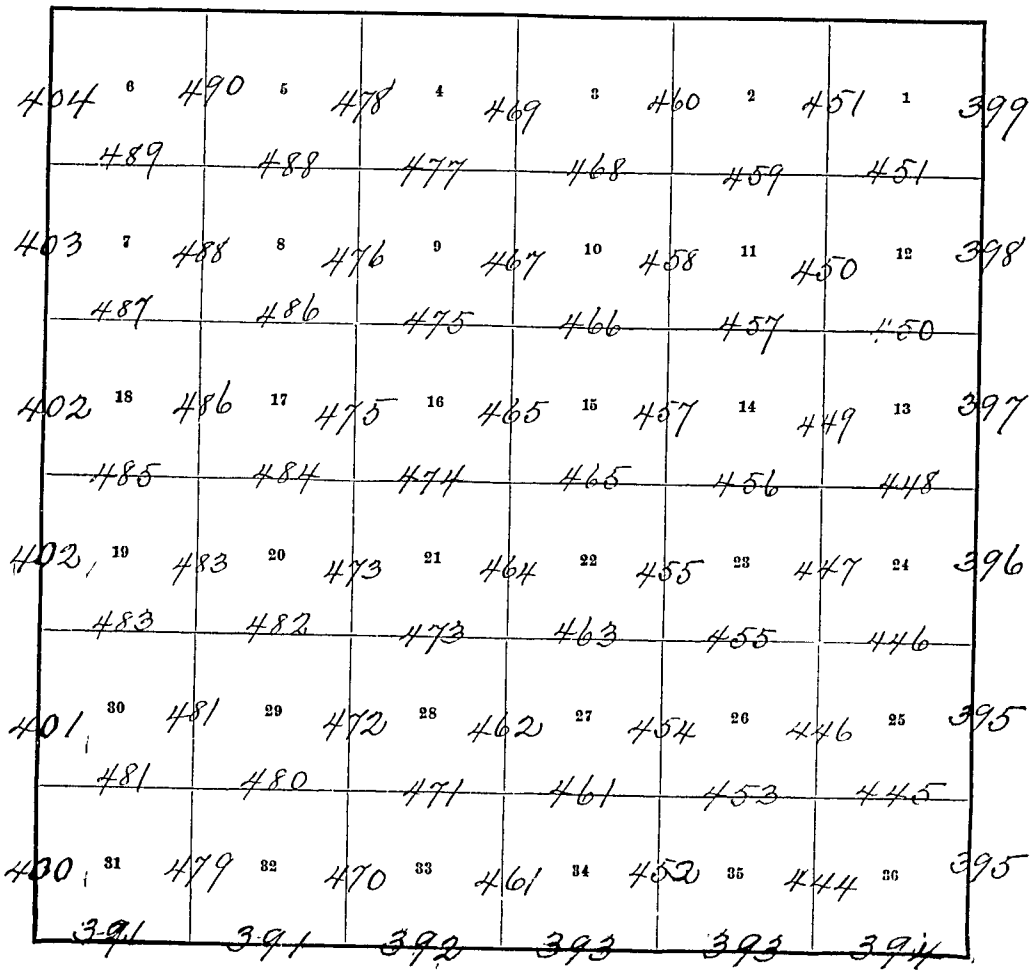
Township 4 N., *Range* 2 W.



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PRELIMINARY OATHS OF ASSISTANTS.

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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

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_____, *Chainman.*

_____, *Chainman.*

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day of _____, 189

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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

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

_____

_____

4—679.

D

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 4 North Range 1 West

of the Uintah Special Base & Meridian,

State of Utah

AS SURVEYED BY

William Challas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 20, 190

Survey commenced July 25, 190

Survey completed Aug 1st of 190

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55 60 77

1 12 66

66 06

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NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Helne	Chainman
Chester Fleming	Chainman
Richard Hugh Camp	Moundman
Douglas King	Axman
Thomas Sands Doty	Flagman

For preliminary affidavits see book B. F. Q. M. C. W.

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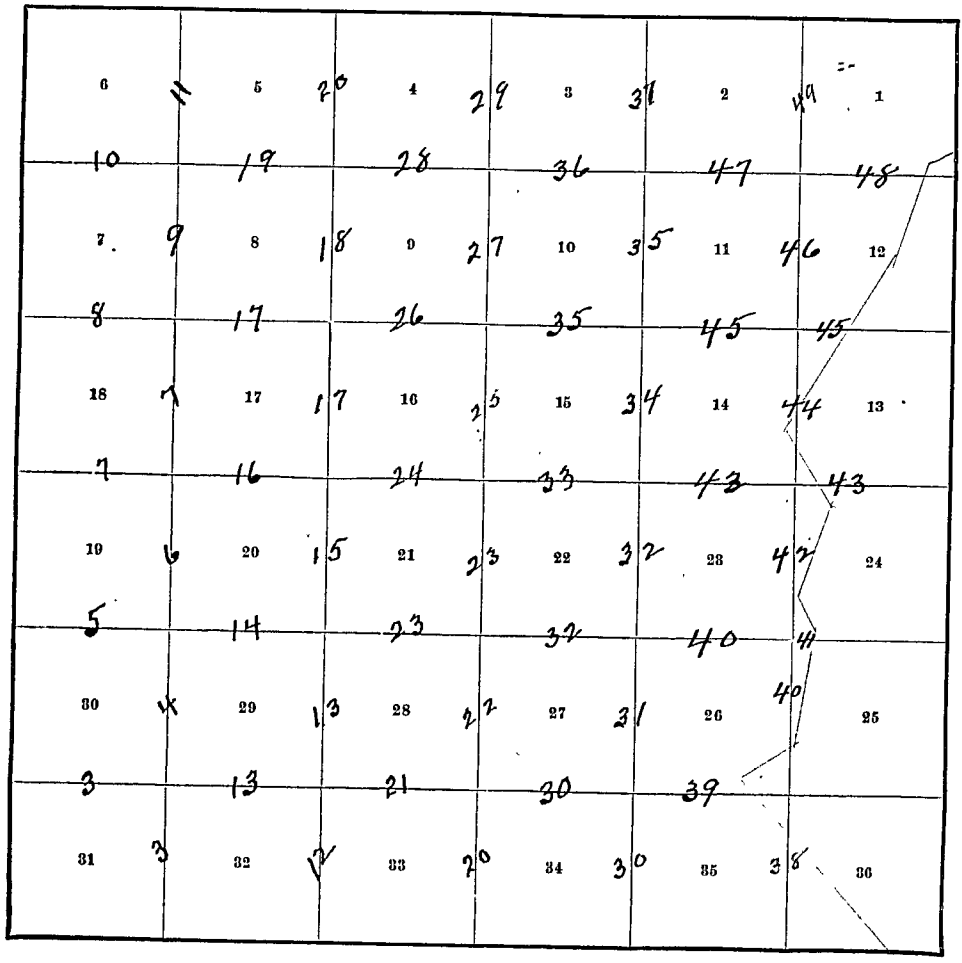
Township 4 N , *Range* 1 W



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Wilfred B Helms and Chester Flemming

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

..... *Chainman.*

..... *Chainman.*

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

SEAL

We, ... and .....

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

..... *Moundman.*

..... *Moundman.*

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

SEAL

We, ... and .....

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

..... *Axman.*

..... *Axman.*

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

SEAL

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

..... *Flagman.*

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

SEAL

Subdivision of T 4N R 1W

Survey commenced July 25- 1904
and executed with a W and L.E.
Gurley Solar Compass with tel-
escope attachment. The horizontal
limb is provided with two double
verniers placed opposite each
other and reading
to single minutes of arc
which is also the least
count of the verniers of the
Lat. and Decl arcs. The
instrument was examined and
tested on the true meridian
at Salt Lake City found
correct and was approved
by the Surveyor General
for Utah. May 6th 1904
I examine the adjustments
of the instrument, and find
them correct.
Then to test the Solar apparatus
by comparing its indications
resulting from Solar observations
made during A.M. and
P.M. hours with a
Meridian determined by
observations on Polaris
I proceed as follows
At the Cor of secs 5-6-31
and 32. on S Bdy of T.P.
which is a granite stone 12x8x6
ins above ground marked
and Witnessed as described
by Deputy J.H. Mortimer under
his Contract No 265 in Lat
40° 41' 59" N Long 110° 03' .11" W
I set off 40° 42' N on Lat arc
19° 38' N on decl arc and at 2h
00m. P.M. L.m.t. Determine with
the Solar a meridian and
mark a point thereby on a

stone firmly set in the ground 5 chs N of the Cor.
At 11h 15m P M I met I observed 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
July 26-1904 at 8h 00m. a.m. I met D. Coy off the azimuth of Polaris 1° 35' to the W. and mark the Meridian thus determined by cutting a small Groove in the stone set July 25th 1904 on which the Meridian falls 0.2 ins E of the mark determined by the Solar
At 8h 30m a.m. I met & set off 40° 42' N on the Lat Arc 19° 28' N on Decl arc and mark a point in the Meridian determined with the Solar by a cross on the stone already set 5 Chs N of my station, this mark falls 0.2 ins E of the Meridian established by the Polaris observation
The Solar apparatus by P.M. and A.M. observations defines positions for Meridians respectively about 0.10" W and 0.10" E of the Meridian established by Polaris observations. Therefore I conclude that the adjustment of the instrument are satisfactory
The Magnetic bearing of the true Meridian at 9h 00m A.M. is N 16° 40' W the Angle thus determined gives the Magnetic Declination 16° 40' E

As the East Bdy of the Uintah Indian Reservation forms the East Bdy of this Tp. I Subdivide from West to East according to Special Instructions

Subdivision of T 4 N. R 1 W.

	From the cor of secs 5-6-31 and 32. on S Bdy of Tp. already described I Run
	No 1' E on a true line bet secs 31 and 32.
	Along rough and broken & slope through
	Pine timber.
40.00	Set a Granite Stone 18 x 18 x 12 ins 12 ins in
	the ground for 1/4 sec cor. marked 1/4 on
	W face. from which
	A Pine 12 ins diam bears S 68° 00' E. 16 lks dist
	marked 1/4 S 32 B.T.
	A Pine 14 ins diam bears N 33° 30' W. 31 lks dist
	marked 1/4 S 31 B.T. Descend NE. slope 75 ft
49.00	Creek 4 lks wide 3 ins deep course S.E.
	Ascend SW slope 150 ft
64.00	Ridge bears NW. and S.E. Descend rocky
	N.E. slope 500 ft
72.00	Creek 40 lks wide 18 ins deep course S.E. Thence to
	~~the~~ West ~~Fork~~ of White Rock creek. Ascend sw slope 50 ft
80.00	Set a Granite Stone 16 x 12 x 7 ins 11 ins in the
	ground, for cor of secs 29. 30. 31. and 32.
	marked with 1 notch on S. and 5 notches
	on E edges, from which.
	A Pine 8 ins diam bears N 49° 30' E. 33 lks
	dist marked T 4 N. R 1 W S 29 B.T.
	A Pine 18 ins diam bears S 84° 15' E. 36 lks dist
	marked T 4 N. R 1 W. S 32 B.T.
	A Pine 8 ins diam bears S 84° 30' W. 83 lks dist
	marked T 4 N. R 1 W. S 31 B.T.
	A Pine 16 ins diam bears N 70° 30' W. 22 lks
	dist marked T 4 N. R 1 W. S. 30 B.T.
	Land Mountainous
	Soil rocky 4th rate
	Timber Pine
	Mountainous and Heavily timbered land
	80.00 Chs

	West on a random line bet secs. 30 and 31
40.00	Set temp 1/4 sec cor.
79.65	Intersect the W. bdy of the Tp. 30 lks S of
	cor of secs 25. 30. 31. and 36. which is
	a Granite Stone 8 x 12 x 5 ins above ground
	marked and witnessed as described

by Deputy H. E. Freudenthal. cont 268

Thence I ran

S 89° 47' E on a true line bet secs 30 and 31.
Descend N.E. slope 300 ft through Pine timber.

21.00 Trail bears N.W. and S.E.

30.00 Head of Ravine course S.E. Ascend SW slope 50 ft

33.00 Top of Ridge bears NW and SE Descend N.E. slope 50 ft

39.82½ Set a Granite Stone 26 x 12 x 6. ins 19 ins in the ground for ¼ sec c cor. marked ¼ on N face. from which.
A Pine 8 ins diam bears N 20° 15' W. 14 lks dist. marked ¼ S 30. B.T.
A Pine 18 ins diam, bears S 2° 00' E. 26 lks dist. marked ¼ S 31 B.T. Descend N.E. slope 700 ft.

78.00 West Fork of White Rock Creek 30 ft wide 3 ft deep runs N.

79.65 The cor of secs 29. 30. 31. and 32.

Land Mountainous
Soil rocky 3rd rate.
Timber Pine

Mountainous and heavily timbered land
79.65 chs

N 0° 1' E. bet secs, 29 and 30,
Ascend S.W. slope 500 ft. through Pine timber

17.00 Ridge bears N.W. and S.E. Descend N.E. slope 75 ft.

22.00 Ravine course S.E. ascend SW slope 200 ft

40.00 Set a Granite Stone 12 x 10 x 6 ins 8 ins in the ground for ¼ sec c cor. marked ¼ on W face. from which.
A Pine 14 ins diam bears N 57° 30' E. 9 lks dist marked ¼ S 29 B.T.
A Pine 10 ins diam bears S 44° 00' W. 7 lks dist marked ¼ S 30. B.T. Ascend SW slope 300 ft

60.00 Set a Granite Stone 14 x 7 x 6 ins 9 ins in the ground for cor of secs, 19. 20. 29 and 30. marked with 2 notches on S and 5 notches on E.

edges, from which.
A Pine 14 ins diam bears N 34° 00' E. 21 lks dist
marked T 4 N. R 1 W. S 20 B.T.
A Pine 10 ins diam bears S 36° 15' E. 24 lks dist
marked T 4 N. R 1 W. S 29 B.T.
A Pine 14 ins diam bears S 43° 45' W. 8 lks dist
marked T 4 N. R 1 W. S 30 B.T.
A Pine 12 ins diam bears N 25° 15' W 31 lks dist
marked T 4 N. R 1 W. S 19 B.T.

Land Mountainous
Soil rocky 3rd rate
~~Timber~~ Pine
Mountainous and heavily timbered land
80.00 chs

At 12h 00 — M. Clouds obscure the Sun
making it impossible to take obsv. for lat.
N 89° 47' W on a random line bet secs 19 and 30
4000 Set temp 1/4 sec cor.
79.60 intersect the W. bdy of the Tp 2 lks N of cor
of secs. 19. 24. 25. and 30. which is a
Quartzite Stone 14 x 6 x 5 ins above ground
marked and witnessed as described
by Deputy H. E. Freudenthal Cmt 268
Thence I run
S 89° 48' E on a true line bet secs. 19 and 30
Descend S.E. slope 75 ft through Pine timber
8.00 Creek 3 lks wide 4 ins deep course W.E.
ascend N.W. slope 50 ft
10.00 Point of Ridge projects N. descend W.E.
slope 75 ft.
21.00 Creek 3 lks wide 4 ins deep course S.E.
Ascend SW slope 50 ft.
24.00 Point of Ridge projects S.E. descend W.E.
slope 100 ft.
36.50 Creek 40 lks wide 18 ins deep course S.E. This is
West Fork of White Rocks Creek. Ascend SW slope 100 ft
39.80 Set a Granite Stone 14 x 10 x 8 ins 10 ins in
the ground, for 1/4 sec cor. marked 1/4
on N face, from which.
A Pine 12 ins diam bears N 48° 00' E. 21 lks dist

marked 1/4 S 19 B.T.
A. Pine 6 ins diam bears S 9° 00' W. 24 lks dist
marked 1/4 S 30 B.T. ascend SW slope
300 ft
79.60 the cor of secs. 19. 20. 29. and 30.
Land Mountainous
Soil rocky 3rd rate
Timber Pine.
Mountainous and heavily timbered land
79.60 chs

N 0° 1' E. bet secs 19. and 20.
Ascend SW slope 100 ft through Pine timber
9.00 Ridge bears NW. and S.E. descend
NE. slope 50 ft
12.00 Ravine course S.E. ascend SW slope 100 ft
40.00 on Ridge bears NW. and S.E.
Set a Granite Stone 18 x 8 x 6 ins 12 ins in the
ground for 1/4 sec cor. marked 1/4 on
W face, from which
A Pine 12 ins diam bears S 41° 45' E. 37 lks dist
marked 1/4 S 20 B.T.
A Pine 12 ins diam bears N 52° 00' W. 16 lks dist
marked 1/4 S 19 B.T.
Thence along gradual E slope.
80.00 Set a Granite Stone 14 x 10 x 8 ins 10 ins in the
ground, for cor of secs 17. 18. 19. and 20.
marked with 3 notches on S. and 5 notches
on E. edges. from which.
A. Pine 8 ins diam bears N 23° 30' E. 48 lks dist
marked T 4 N. R 1 W. S 17 B.T.
A Pine 6 ins diam bears S 86° 15' E. 21 lks dist
marked T 4 N. R 1 W. S 20 B.T.
A Pine 16 ins diam bears S 35° 30' W. 70 lks dist
marked T 4 N. R 1 W. S 19 B.T.
A Pine 14 ins diam bears N 55° 15' W. 20 lks dist
Marked T 4 N R 1 W. S. 18 B.T.
Land Mountainous Soil rocky 3rd rate
Timber Pine
Mountainous and heavily timbered land
80.00 chs

July 26th 1904

Subdivision of T 4 N. R 1 W.

July 27th 1904. at 7h 00m A.M. l.m.t. I set off 40°45'N on Lat arc. 19°16' N on Decl arc. and determine a true Meridian, with the Solar, at the cor. of secs, 17. 18. 19. and 20. Thence I run N89°48'W on a random line bet, secs, 18 and 19

40.00 Set temp 1/4 sec cor.

79.50 intersect W bdy of Tp 2 lks S of cor of secs 13. 18. 19. and 24. which is a Rock in place. 4X5X3 ft above ground marked and witnessed as described by Deputy H. E. Freudenthal Cont 268

Thence I run

S89°47'E on a true line bet secs, 18 and 19

Ascend rocky SW slope through Pine Timber 250 ft

25.00 Point of Ridge projects S.E. thence along rocky S slope

39.75 Set a Granite Stone 16 X 10 X 6 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on N. face. from which.

A Pine 15 ins diam bears N21°00'E. 17 lks dist marked 1/4 S 18 B.T.

A Pine 14 ins diam bears S7°30'E. 62 lks dist marked 1/4 S 19 B.T. Descend S.E. slope 300 ft

79.50 the cor of secs, 17. 18. 19. and 20.

Land Mountainous
Soil Rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
7950 chs

N0°1'E. bet Secs, 17 and 18.

Descend N.E. slope 250 ft through Pine timber.

31.00 Thence over rough E slope

40.00 Set a Granite Stone 20 X 12 X 8 ins 15 ins in the ground, for 1/4 sec cor. marked 1/4 on W. face, from which.

A Pine 6 ins diam bears N53°30'E. 17 lks dist

marked 1/4 S 17 B.T.
A Pine 8 ins diam bears N76°00'W. 14 lks dist
marked 1/4 S. 18 B.T. Descend NE slope 150 ft
66.00 Creek 20 lks wide 5 ins deep course S.E.
Ascend SW slope 75 ft.
75.00 Ridge bears NW. and S.E. descend N.E.
slope 30 ft
80.00 Set a Granite Stone 15X11X7 ins 10 ins in the
ground for cor of secs, 7. 8. 17. and 18.
marked with 4 notches on S and 5
notches on E. edges, from which
A Pine 12 ins diam bears N59°00'E. 23 lks dist
marked T4N. R1W S8 B.T.
A Pine 10 ins diam bears S55°30'E. 25 lks
dist. marked T4N. R1W. S17 B.T.
A Pine 14 ins diam bears S38°15'W 38 lks
dist marked T4N. R1W. S 18. B.T.
A Pine 14 ins diam bears N53°15'W. 51 lks dist
marked T4N. R1W. S7 B.T.

Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
80.00 chs

N89°47'W on a random line bet secs 7 and 18
40.00 Set temp 1/4 Sec cor.
79.55 intersect W. bdy of Tp 5 lks S. of cor.
of secs. 7. 12. 13. and 18. which is
a Granite Stone 6X12X6 ins above ground
marked and witnessed as described
by Deputy H. E. Freudenthal Cont 26 &

Thence I run

S89°45'E on a true line bet secs 7 and 18.
Descend NE. slope 800 ft
19.00 enter Pine timber bears N and S.
39.77½ Set a Granite Stone 14X10X8 ins 10 ins in the
ground, for 1/4 sec cor, marked 1/4 on
N face. from which
A Pine 14 ins diam bears N58°30'E. 27 lks dist
marked 1/4 S 7 B.T.

Subdivision of T 4 N. R 1 W.

	A Pine 12 ins diam bears S 17° 15' W. 28 lks dist marked 1/4 S 18 B.T. descend NE. slope 150 ft.
58.50	Creek 20 lks wide 2 ft deep course S.E. ascend SW slope 200 ft
75.00	Ridge bears NW and S.E. descend NE. slope 50 ft.
79.55	the cor of secs, 7. 8. 17. and 18. Land Mountainous Soil rocky 3rd rate Timber Pine Mountainous or heavily timbered land 79.55 Chs
	At the above cor. at 12h 6m P.M. l.m.T. I set off 19° 12' W. on Declanc. and observe the Sun as it passes the Meridian the resulting Lat is 40° 45 N. which is practically the correct Lat. N 0° 1' E. bet secs. 7 and 8. Descend NE. slope 30 ft through Pine timber
18.00	Creek 12 lks wide 4 ins deep course S.E. ascend S.W. slope 100 ft.
40.00	Set a Granite Stone 16 x 10 x 7 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face. from which. A Pine 6 ins diam bears S 76° 00' E. 15 lks dist marked 1/4 S 8 B.T. A Pine 10 ins diam bears N 63° 30' W 26 lks dist marked 1/4 S 7 B.T. ascend SW. slope 75 ft.
60.00	Ridge bears NW and S.E. descend NE slope 250 ft.
79.00	leave timber bears NW and S.E.
80.00	Set a Granite Stone 14 x 12 x 7 ins 10 ins in the ground, for the cor of secs 5. 6. 7. and 8. marked with 5 notches on S and E. edges. and raised a mound of stone 2 ft base 1 1/2 ft high W. of Cor.

Subdivision of T4N. R1W.

from which.
A Pine [illegible] ins diam bears S49°00'W. 108 lks
dist marked T4N. R1W. S7 B.T.
A Pine 10 ins diam bears S47°00'E. 227 lks dist
marked T4N. R1W. S8 B.T.
A Pine 12 ins diam bears N52°00'W 186 lks
dist marked T4N R1W. S6 B.T. Pile impractical.
No tree available in N.E. Ave.
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
80.00 chs

[illegible] on a random line between 6 and 7
4.00 Set temp 1/4 sec cor.
[illegible] 5. Intersect W. bdy of Tp 14 lks N of cor
of secs, 1. 6. 7. and 12. which is a
Sand Stone 8x12x5 ins above ground.
marked and witnessed as described
by Deputy H. E. Fremlenthal Cent 268
[illegible]
[illegible] on a true line between 6 and 7.
Along [illegible] rocky [illegible] bears NW and SE.
3.00 Descend N.E. slope 250 ft
[illegible] Enter Pine timber bears N and S.
[illegible] Set a Granite Stone 15x10x8 ins 10 ins in
the ground, for 1/4 sec cor. marked
[illegible] on N face, from which.
A Pine [illegible] ins diam bears N27°30'E. 36 lks
dist marked [illegible] S6 B.T.
A Pine [illegible] ins diam bears S40°00'W 47 lks
dist marked [illegible] S7 [illegible] descend N.E.
[illegible] 250 ft
[illegible] [illegible] bears NW and SE.
5. [illegible] of secs 5. 6. 7. and 8.
Sand Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
[illegible]52 chs

Subdivision of T 4 N. R 1 W.

	No 1' E, bet secs, 5 and 6,
	Descend N.E. slope 75 ft
16.50	Creek 30 lks wide 1 ft deep course S.E.
	Ascend S.W. slope 100 ft.
25.00	enter Pine timber bears NW and S.E.
28.00	Ridge bears NW and S.E. descend
	N.E. slope 75 ft
40.00	Set a Granite Stone 14 x 10 x 7 ins 10 ins in
	the ground, for 1/4 sec cor. marked
	1/4 on W face, from which,
	A Pine 10 ins diam bears N 13° 30' E. 30 lks dist
	marked 1/4 S 5 B.T.
	A Pine 24 ins diam bears N 69° 00' W. 21 lks
	dist, marked 1/4 S 6 B.T. Thence over
	bottom land
50.00	Ascend abruptly E slope 200 ft.
79.90	Intersect First Standard Parallel North
	1.98 chs E. of the Standard sec cor to secs
	31 and 32. heretofore described
	Set a Granite Stone 14 x 10 x 10 ins 10 ins in the
	ground, for Closing cor. of secs, 5 and 6.
	marked C.C. on S. with 5 grooves on E
	and 1 grooves on W. faces. from which
	A Pine 14 ins diam bears S 46° 15' E. 45 lks dist
	marked . . T 4 N. R. 1 W. S 5 B.T.
	A Pine 12 ins diam bears S 26° 30' W. 24 lks dist
	marked . . T 4 N. R. 1 W. S 6 B.T.

Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
79.90 chs

July 27th 1904

July 28th 1904.

From the witness cor, to secs 4 and 33.
on the S. bdy of the Tp. which is a Granite
Stone 13 x 7 x 6 ins above ground marked and
witnessed as described by Deputy Marticiau,
Contract No 265.
At the above cor. at 7h 30m A.M. l.m.t.
I set off 40° 42' N on Lat arc. 19° 02' N.

on Decl, arc. and determine a true Meridian with the Solar.

Thence I run

N 0° 2' E. on an offset line in sec 33. Along steep W. slope.

14.00 Thence I run West 12.00 chs to the true line bet secs 32 and 33. where I set a Granite Stone 14 x 7 x 6. ins 10 ins in the ground for witness cor, to secs 4. 5. 32. and 33, marked W.C. on NE. with 2 notches on W and 4 notches on E. edges. and raised a mound of stone 2 ft base 1½ ft high W. of cor. ~~pits impracticable~~ Thence I run N 0° 2' E. on a true line bet secs 32 and 33 Descend N slope 200 ft

19.00 Creek 30 lks wide 6 ins deep course W. ascend S slope 300 ft.

24.00 Enter Pine timber bears E and W.

40.00 Set a Granite Stone 13 x 7 x 7 ins 9 ins in the ground for ¼ sec cor. marked ¼ on W face from which A Pine 12 ins diam bears N 20° 00' E. 12 lks dist marked ¼ S 33 B.T.
A Pine 14 ins diam bears S 14° 30' W. 82 lks dist marked ¼ S 32 B.T. Ascend abruptly S.W. slope 1200 ft.

68.00 Point of W slope, thence along steep broken W slope

80.00 Set a Granite Stone 24 x 12 x 6 ins 18 ins in the ground, for cor of secs, 28. 29. 32. and 33. marked with 1 notch on S and 4 notches on E. edges. from which.
A Pine 16 ins diam bears N 48° 30' E. 40 lks dist marked T 4 N. R 1 W S 28 B.T.
A Pine 16 ins diam bears S 26° 30' E. 23 lks dist marked T 4 N. R 1 W S 33 B.T.
A Pine 8 ins diam bears S 13° 00' W. 37 lks dist marked T 4 N. R 1 W. S 32 B.T.
A Pine 12 ins diam bears N 56° 00' W. 60 lks dist marked T 4 N. R 1 W S 29 B.T.

Land Mountainous
Soil rocky 4th rate

Subdivision of T 4 N. R 1 W.

Timber Pine
Mountainous or heavily timbered land
80.00 chs

West on a random line bet secs 29 and 32.
40.00 Set temp 1/4 sec cor.
80.00 Intersect N and S line 30 lks S of cor of secs 29. 30. 31. and 32.
Thence S run.
S 89° 47' E on a true line bet secs 29 and 32.
Ascend Stks SW slope 250 ft. through Pine timber
7.00 Ridge bears NW and S.E. descend N.E. slope 150 ft
23.00 Ravine Course S.E. ascend SW slope 400 ft
40.00 Set a Granite Stone 14 X 10 X 8 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N face, from which.
A Pine 16 ins diam bears N 38° 00' E. 21 lks dist marked W S 29 B.T.
A Pine 10 ins diam bears S 15° 00' W. 39 lks dist marked W S 32. B.T. Ascend SW slope 75 ft
115.00 Point of Ridge projects S. descend E. slope 600 ft.
59.00 Ravine Course S. ascend W slope 700 ft
71.50 Ridge bears N and S. descend abruptly 500 ft
75.00 Creek 40 lks wide 3 ft deep Course S. Ascend W slope 700 ft.
80.00 The cor of secs 28. 29. 32. and 33.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous and heavily timbered Land
80.00 chs

N 0° 2' E. bet secs 28 and 29.
Ascend rocky SW slope through Pine timber 700 ft.
21.00 Point of W. slope. descend NW slope 600 ft
30.00 Creek 30 lks wide 3 ft deep Course SW.
Ascend S.E. slope 1000 ft.

Subdivision of T 4 N. R 1 W.

40.00 On point of E. slope.
Set a Granite Stone 14 x 7 x 6. ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W. face from which.
A Pine 14 ins diam bears S 53° 15' E. 41 lks dist marked 1/4 S 28 B.T.
A Pine 6 ins diam bears S 10° 15' W 22 lks dist marked 1/4 S 29 B.T. descend N.E. slope 900 ft

80.00 Set a Granite Stone 15 x 10 x 4 ins 10 ins in the ground for cor of secs 20. 21. 28. and 29. marked with 2 notches on S and 4 notches on E. edges, from which
A Pine 28 ins diam bears N 4° 00' E. 12 lks dist marked T 4 N. R 1 W. S 21 B.T.
A Pine 12 ins diam bears S 22° 15' E 10 lks dist marked T 4 N. R 1 W. S 28 B.T.
A Pine 10 ins diam bears S 21° 30' W. 40 lks dist marked T 4 N. R 1 W S 29 B.T.
A Pine 6 ins diam bears N 71° 00' W 62 lks dist marked T 4 N R 1 W S 20 B.T.
This cor stands on a N.E. slope 50 ft above creek to the North.

Land Mountainous.
Soil rocky 4th rate
Timber Pine
Mountainous and heavily timbered land
80.00 chs

N 89° 47' W. on a random line bet secs 20 and 29

40.00 Set temp 1/4 sec cor.

80.10 Intersect N and S line 7 lks S of [illegible] cor of secs, 19. 20. 29. and 30.

Thence I run

S 89° 44' E on a true line bet secs 20 and 29
Ascend S.W. slope 50 ft. through Pine timber

2.00 Point of Ridge projects S.E. descend N.E. slope 75 ft.

9.50 Ravine Course S.E. ascend SW slope 30 ft

14.00 Point of Ridge projects S. descend S.E. slope 300 ft.

40.05 Set a Granite Stone 16 x 8 x 8 ins 11 ins in the

	ground, for 1/4 sec cor, marked 1/4 on N face. from which. A Pine 6 ins diam bears N 47° 30' W. 20 lks dist marked 1/4 S 20 B.T. A Pine 7 ins diam bears S 2° 00' W. 11 lks dist marked 1/4 S 29 B.T. descend S.E. slope 1000 ft
56.00	Ravine course S.E. ascend S.W. slope 150 ft
70.00	Spur projects S.E. descend E. slope 200 ft
80.10	The cor of secs, 20, 21, 28, and 29. Land Mountainous Soil rocky 4th rate Timber Pine Mountainous and heavily timbered land 80.10 chs
	N 0° 2' E. bet secs 20 and 21, Descend N.E. slope through Pine timber 50 ft
1.00	Creek 40 lks wide 3 ft deep course S.E. Ascend S.W. slope 400 ft.
19.00	Point of W slope. descend NW slope 300 ft
36.00	Creek 30 lks wide 1 ft deep Course S.W. ascend S.E. slope 100 ft.
40.00	Set a Granite Stone 14 x 7 x 6. ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on W face from which. A Pine 12 ins diam bears N 46° 30' E. 10 lks dist marked 1/4 S 21 B.T. A. Pine 6 ins diam bears N 4° 15' W. 22 lks dist marked 1/4 S 20 B.T. At 12h 00m M. Clouds obscure the Sun making it impossible to take observation for lat. Ascend S.E. slope 700 ft.
51.00	Brow of bench bears N.E. and S.W. Trence over bench.
80.00	Set a Granite Stone 13 x 13 x 10 ins 9 ins in the ground for cor of secs, 16. 17. 20. and 21 marked with 3 notches on S. and 4 notches on E. edges, from which A Pine 14 ins diam bears N 62° 45' E. 101 lks dist marked T 4 N. R 1 W. S 16 B.T.

Subdivision of T 4 N. R 1 W.

	A Pine 12 ins diam bears S 14° 15' E. 54 lks dist marked T 4 N. R 1 W. S 21 B. T.
	A Pine 12 ins diam bears S 44° 00' W 56 lks dist marked T 4 N. R 1 W. S 20 B.T.
	A Pine 8 ins diam bears N 29° 15' W. 40 lks dist marked T 4 N. R 1 W S 17 B.T.
	Land Mountainous Soil rocky 3rd rate Timber Pine
1	Mountainous and heavily timbered land 80.00 chs
	N 89° 44' W on a random line bet secs 17 and 20
40.00	Set temp 1/4 sec cor.
80.04	Intersect N and S line at the cor of secs 17. 18. 19. and 20.
	Thence down
	S 89° 44' E. on a true line bet secs, 17 and 20 Descend S.E. slope 400 ft. through Pine timber.
40.02	Set a Granite Stone 14 x 12 x 7 ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on N face, from which.
	A Pine 10 ins diam bears N 19° 00' W 45 lks dist marked 1/4 S 17 B.T.
	A Pine 14 ins diam bears S 17° 30' W. 34 lks dist marked 1/4 S 20 B.T. descend S.E. slope 75 ft.
44.00	Ravine course S.W. ascend NW slope 75 ft
46.00	Spur projects S.W. descend E slope 400 ft
56.00	Creek 30 lks wide 1 ft deep course S. ascend W slope 350 ft.
70.00	Brow of bench bears N and S.
	Thence over bench.
80.04	The cor of secs 16. 17. 20. and 21.
	Land Mountainous Soil rocky 3rd rate Timber Pine
1	Mountainous and heavily timbered land 80.04 chs

Subdivision of T 4 N. R 1 W.

	No° 2' E. bet secs, 16. and 17.
	Over Mountainous Land through Pine timber on Creek
40.00	Set a Granite Stone 14 x 10 x 7 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W face
	from which.
	A Pine 12 ins diam bears N 84° 00' E. 20 lks dist marked 1/4 S 16 B. T.
	A Pine 12 ins diam bears N 61° 00' W. 16 lks dist marked 1/4 S 17 B.T.
	This cor is 150 ft above last sec cor.
80.00	Set a Granite Stone 16 x 10 x 6 ins 11 ins in the ground for cor of secs 8. 9. 16. and 17.
	marked with 4 notches on S. and 4 notches
	on E. edges from which
	A Pine 8 ins diam bears N 49° 00' E. 4 lks dist marked T 4 N. R 1 W. S 9 B.T.
	A Pine 14 ins diam bears S 62° 00' E. 14 lks dist marked T 4 N. R 1 W. S 16 B.T.
	A Pine 12 ins diam bears S 82° 00' W. 32 lks dist marked T 4 N. R 1 W. S 17 B.T.
	A Pine 12 ins diam bears N 39° 30' W. 13 lks dist marked T 4 N. R. 1 W. S 8 B.T.
	Land Mountainous
	Soil rocky 3 rate
	Timber Pine
	Mountainous or heavily timbered land
	80.00 Chs
	July 28th 1904
	July 29th 1904. at 8 h 00 m A.M. L. M. T.
	I set off 40° 45' on Lat Arc. 18° 47' N.
	on Decl Arc. and determine a true
	Meridian at the cor of secs, 8. 9. 16. and 17
	Thence I run
	N 89° 44' W. on a random line bet secs 8 and 17.
40.00	Set temp 1/4 sec cor.
80.05	Intersect N and S line 30 lks N of cor of secs 7. 8. 17. and 18.
	Thence I run
	S 89° 57' E. on a true line bet secs 8 and 17.
	Descend N.E. slope through Pine timber 100 ft
11.50	Creek 10 lks wide I ft deep Course S.E.

Subdivision of T 4 N. R 1 W.

	Ascend SW slope 80 ft.
17.00	Ridge bears S.E. and NW. descend N.E. slope 50 ft
21.00	Head of Ravine course S.E. ascend SW slope 50 ft
26.00	Spur projects S.E. descend N.E. slope 150 ft
40.02½	Set a Granit Stone 16 x 12 x 6 ins 11 ins in the ground for ¼ sec cor. marked ¼ on N face, from which.
	A Pine 8 ins diam bears N 20° 00' W. 10 lks dist marked ¼ S 8 B.T.
	A Pine 10 ins diam bears S 21° 30' E. 13 lks dist marked ¼ S 17 B.T. descend N.E. slope 75 ft
56.25	Creek 3 lks wide 4 ins deep course S.E.
	Ascend SW slope 100 ft
71.00	Brow of bench bears NW. and S. Thence over bench.
80.05	The cor of secs, 8. 9. 16. and 17.
	Land Mountainous
	Soil rocky & rate
	Timber Pine
	Mountainous or heavily timbered land
	80.05 Chs

	N 0° 2' E. bet secs, 8 and 9.
	Over bench through Pine timber
40.00	Set a Granit Stone 15 x 10 x 6 ins 10 ins in the ground. for ¼ sec cor. marked ¼ on W face from which.
	A Pine 8 ins diam bears N 38° 00' E. 10 lks dist marked ¼ S 9 B.T.
	A Pine 12 ins diam bears N 70° 00' W. 27 lks dist marked ¼ S 8 B.T. ascend S.E. slope 50 ft
44.00	Point of Ridge projects E. descend N.E. slope 75 ft.
55.00	Ravine course S.E. ascend SW slope 50 ft.
58.00	Ridge bears NW and S.E. descend N.E. slope 50 ft
60.00	Ravine Course S.E. ascend SW slope 50 ft
62.00	Point of Ridge projects W. descend NW slope 50 ft
64.00	Ravine Course N.E. ascend S.E. slope 50 ft
66.00	Ridge bears NW and S.E. descend N.E. slope 100 ft
73.00	Creek 40 lks wide 12 ins deep Course S.E. ascend SW. slope 100 ft

Subdivision of T 4 N. R 1 W.

80.00 Set a Granite Stone 16 x 12 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. from which.
A Pine 6 ins diam bears N 49° 30' E. 47 lks dist marked T 4 N. R 1 W S 4 B.T.
A Pine 14 ins diam bears S 62° 00' E. 52 lks dist marked T 4 N. R 1 W. S 9 B.T.
A Pine 14 ins diam bears S 9° 15' W. 17 lks dist marked T 4 N. R 1 W. S 8 B.T.
A Pine 6 ins diam bears N 78° 45' W. 12 lks dist marked T 4 N. R 1 W. S 5 B.T.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous cor & heavily timbered land &
80.00 chs

At 12h 00m M. Clouds obscure the Sun making it impossible to take Obsn. for Lat.
N 89° 57' W. on a random line bet secs 5 and 8
40.00 Set temp 1/4 Sec cor.
80.14 Intersect N and S line 7 lks N of cor of secs 4. 5. 7. and 8.
Thence I run
East on a true line bet secs 5 and 8
Ascend NW slope 100 ft
12.00 Enter Pine timber bears N.E. and S.W.
20.00 Point of Ridge projects N. descend N.E. slope 150 ft
40.07 Set a Granite Stone 14 x 10 x 6 ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on N face. from which.
A Pine 16 ins diam bears S 12° 00' E. 26 lks dist marked 1/4 S 8 B.T.
A Pine 16 ins diam bears N 56° 00' W. 10 lks dist marked 1/4 S 5 B.T. descend N.E. slope 200 ft
50.50 Creek 40 lks wide 1 ft deep course S.E. ascend SW slope 50 ft
52.50 Thence along S slope.
80.14 The cor of secs 4. 5. 8. and 9.
Land Mountainous

Subdivision of T 4 N. R 1 W.

Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
80.14 chs

No° 2' E. bet secs. 4 and 5.
Descend N.E. slope 50 ft. through Pine timber
41.00 Ravine Course S.E. ascend S.W. slope 200 ft
40.00 Set a Granite Stone 16 x 10 x 5 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which.
A Pine 6 ins diam bears N 58° 00' E. 21 lks dist marked 1/4 S 4 B.T.
A Pine 12 ins diam bears N 22° 30' W 32 lks dist marked 1/4 S 5 B.T. ascend S.W. slope 75 ft
56.00 Ridge bears N.W. and S.E. descend N.E. slope 150 ft.
65.00 Leave timber bears N.W. and S.E.
79.75 Intersect First Standard Parallel N. 1.90 chs E. of the Standard Sec. cor. to secs 32. and 33, heretofore described.
Set a Granite Stone 13 x 10 x 8 ins 9 ins in the ground, for Closing cor. of secs, 4 and 5 marked C.C. on S. with 2 grooves on W. and 4 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 3rd rate
Timber Pine
Mountainous or heavily timbered land
79.75 chs

July 29th 1904

July 30th 1904. at 8h 00m A.M. l.m.T.
I set off 40° 42' on the Lat Arc. 18° 33' N on Decl Arc. and determine a true Meridian with the Solar. at the cor of secs, 3. 4. 33. and 34. on the S bdy. of the Tp. which is a Granite Stone 10 x 10 x 6 ins above ground marked and witnessed as described by Deputy J. H.

Subdivision of T4N. R1W.

Martineau Contract No 265.
Thence I run
N0°2' E. bet secs, 33. and 34.
Descend N.E. slope 150 ft through Pine timber

14.50 Creek 5 lks wide 6 ins deep course N.W.
Ascend SW slope 200 ft.

40.00 Set a Granite Stone 14 x 8 x 8 ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on W. face, from which.
A Pine 8 ins diam bears S80°30'W. 43 lks dist marked 1/4 S 33 B.T.
A Pine 7 ins diam bears N18°15'E. 9 lks dist. marked 1/4 S 34 B.T. ascend SW slope 300 ft.

80.00 Set a Granite Stone 16 x 10 x 6 ins 11 ins in the ground for cor of secs 27. 28. 33. and 34. marked with 1 notch on S. and 3 notches on E. edges, from which.
A Pine 6 ins diam bears N11°30'E. 22 lks dist marked T4N. R1W. S 27 B.T.
A Pine 7 ins diam bears S21°00'E. 30 lks dist marked T4N. R. 1W S 34 B.T.
A Pine 30 ins diam bears S25°00'W 35 lks dist marked T4N. R. 1W. S 33 B.T.
A Pine 7 ins diam bears N73°30'W. 44 lks dist marked T4N. R1W. S28 B.T.

Land Mountainous
Soil rocky 3rd rate.
Timber Pine

Mountainous and heavily timbered land
80.00 chs

West. on a random line bet secs 28 and 33

40.00 Set temp 1/4 sec cor.

79.96 Intersect N and S line 30 lks S of cor of secs 28. 29. 32. and 33.
Thence I run
S89°47' E. on a true line bet secs 28 and 33.
Ascend broken W. slope through Pine timber 1100 ft.

Subdivision of T 4 N. R 1 W.

39.98	Set a Granite Stone 15 x 10 x 4 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N face. from which. A Pine 12 ins diam bears S 22° 15' E. 68 lks dist marked 1/4 S 33. B.T. A Pine 8 ins diam bears N 36° 00' E. 37 lks dist marked 1/4 S 28 B.T. ascend SW slope 500 ft
79.96	The cor of secs, 27. 28. 33 and 34. Land Mountainous Soil rocky 3rd rate Timber Pine Mountainous and heavily timbered land 79.96 chs
	No. 2' E. bet secs, 27. and 28. Ascend rocky SW. slope 600 ft through Pine timber
1.00	leave timber bears E and W.
30.00	Point of Ridge projects W. descend NW slope 150 ft.
40.00	Set a Granite Stone 16 x 8 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 1 1/2 ft high W of cor. Pits impracticable
	Descend SW slope 700 ft
61.00	Enter Pine timber bears E and W. Thence over rocky bench.
80.00	Set a Granite Stone 14 x 7 x 6 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, from which A Pine 14 ins diam bears N 62° 30' E. 37 lks dist marked T 4 N. R 1 W. S 22 B.T. A Pine 14 ins diam bears S 32° 30' E. 12 lks dist marked T 4 N. R 1 W S 27 B.T. A Pine 6 ins diam bears S 61° 30' W. 59 lks dist marked T 4 N. R 1 W. S 28 B.T. A Pine 10 ins diam bears N 48° 15' W. 95 lks dist marked T 4 N. R 1 W S 21 B.T.

Subdivision of T 4 N. R 1 W.

Land Mountainous
Soil rocky 4th rate
Timber Pine
Mountainous or heavily timbered land
80.00 chs

N 89°47' W. on a random line bet secs 21 and 28
40.00 Set temp ¼ sec cor.
80.04 Intersect N and S line 2 lks S of cor of secs 20. 21. 28. and 29.
Thence I run
S 89°46' E on a true line bet secs 21 and 28
Descend NE. slope through Pine timber
60 ft
1.50 Creek 40 lks wide 2 ft deep course S.
Ascend rough steep W. slope 800 ft
40.02 Set a Granite Stone 16 x 12 x 7 ins 11 ins in the ground, for ¼ sec cor. marked ¼ on N face, from which
A Pine 7 ins diam bears N 8°00' E. 10 lks dist marked ¼ S 21 B.T.
A Pine 12 ins diam bears S 5°00' E. 17 lks dist marked ¼ S 28 B.T. ascend NW slope 80 ft
45.00 Spur projects SW. descend SE. slope 50 ft
47.50 Creek 15 lks wide 6 ins deep course SW.
Ascend NW slope 400 ft.
60.00 Timber on W slope
80.04 The cor of secs, 21. 22. 27 and 28
Land Mountainous
Soil rocky 4th rate
Timber Pine
Mountainous and heavily timbered land
8004 Chs

N 0°2' E. bet secs 21 and 22.
Descend NW slope 200 ft through Pine timber
19.50 Creek 15 lks wide 1 ft deep course SW.
Ascend SE. slope 125 ft
28.00 Ridge bears NE. and SW. descend SW slope 100 ft
40.00 Set a Granite 18 x 8 x 6 ins 12 ins in the

Subdivision of T 4 N. R 1 W.

ground for 1/4 sec cor. marked 1/4 on W face. from which.
A Pine 10 ins diam bears S 81° 00' E. 13 lks dist, marked 1/4 S 22 B.T.
A Pine 6 ins diam bears S 69° 00' W. 23 lks dist marked 1/4 S 21 B.T. descend NW slope 150 ft
66.00 Creek 15 lks wide 1 ft deep course W. ascend S slope 50 ft
70.00 Thence along W slope
80.00 Set a Granite Stone 13 x 10 x 7. ins q ins in the ground for cor of secs 15. 16. 21. and 22. marked with 3 notches on S and 3 notches on E. edges. from which.
A Pine 8 ins diam bears N 59° 30' E. 36 lks dist marked T 4 N. R. 1 W S 15 B.T.
A Pine 10 ins diam bears S 64° 30' E. 19 lks dist marked T 4 N. R 1 W. S 22 B.T.
A Pine 12 ins diam bears S. 8° 30' W. 36 lks dist marked T 4 N. R 1 W. S 21 B.T.
A Pine 14 ins diam bears N 15° 00' W. 22 lks dist marked T 4 N. R 1 W. S 16 B.T.

Land Mountainous
Soil rocky 3rate
Timber Pine

Mountainous and heavily timbered land
80.00 chs

July 30th at the above cor. at 12h 06m P.M. l.m.T.
I set off 18° 30' N on Decl arc. and observe the Sun as it passes the Meridian, the resulting Lat is 40° 45'. which is practically the correct Lat.

Thence d sun
N 89° 46' W. on a random line bet secs. 16 and 21
40.00 Set temp 1/4 sec cor.
79.92 Intersect N and S line 4 lks S of cor of secs 16. 17. 20. and 21.

Thence d sun
S 89° 44' E. on a true line bet secs 16 and 21. Over bench through Pine timber
8.00 Descend E. slope 350 ft.

Subdivision of T 4 N. R 1 W.

28.50	Creek 60 lks wide 18 ins deep course S.W. Ascend steep broken SW slope 350 ft
38.00	Point of Spur projects N.W. descend NE. slope 30 ft
39.96	Set a Granite Stone 14 x 14 x 16 ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on N. face, from which, A Pine 6 ins diam bears N 11° 30' E. 8 lks dist marked 1/4 S 16 B.T. A Pine 14 ins diam bears S 34° 30' W. 27 lks dist marked 1/4 S 21 B.T. descend NE. slope 125 ft.
48.00	Creek 15 lks wide 6 ins deep course NW. Ascend SW slope 200 ft.
79.92	The cor of secs, 15. 16. 21. and 22. Land Mountainous Soil rocky 3rd rate. Timber Pine Mountainous and heavily timbered land 79.92 chs

	N 0° 2' E bet secs 15 and 16. Ascend SW slope 50 ft through Pine timber
2.00	Point of Spur projects NW. descend NW slope 100 ft
10.00	Ravine Course S.W. ascend S slope 100 ft
40.00	Set a Granite Stone 16 x 16 x 6 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face, from which. A Pine 8 ins diam bears S 35° 30' E. 5 lks dist marked 1/4 S 15 B.T. A Pine 10 ins diam bears S 74° 00' W. 24 lks dist marked 1/4 S 16 B.T. ascend SE. slope 100 ft
50.00	Spur projects SW. descend NW slope 100 ft
56.50	Creek 15 lks wide 1 ft deep course SW. Ascend 30 ft
58.00	Thence along rough W. slope
80.00	Set a Granite Stone 18 x 11 x 6 ins 12 ins in the ground, for cor of secs, 9. 10. 15 and 16. marked with 4 notches on S. and 3 notches on E. edges. from which.

Subdivision of T 4 N. R 1 W

A Pine 16 ins diam bears N 37° 15' E. 42 lks dist
marked T 4 N. R 1 W. S 10 B.T
A Pine 14 ins diam bears S 28° 00' E. 29 lks dist
marked T 4 N. R 1 W. S 15 B.T.
A Pine 14 ins diam bears S 29° 30' W. 72 lks dist
marked T 4 N. R 1 W. S 16 B.T.
A Pine 6 ins diam bears N. 23° 15' W. 29 lks dist
marked T 4 N. R 1 W. S 9 B.T.

Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
80.00 chs

July 30th 1904.

August 1st 1904 At 8h 00m A.M. l.m.t.
I set off 40° 45' on Lat arc. 18° 03' N
on Decl arc. and determine a true
Meridian with the Solar, at the cor of
secs, 9. 10. 15. and 16.

Thence I run

N 89° 44' W. on a random line bet secs 9 and 16

40.00 Set temp ¼ sec cor.
79.91 Intersect N and S. line 11 lks N of cor
of secs, 8. 9. 16. and 17.

Thence I run

S 89° 49' E. on a true line bet secs 9 and 16
Descend S.E. slope 175 ft through Pine timber
8.00 Head of Ravine course S.E.
17.00 Ravine course S.E. ascend W slope 50 ft
19.00 Spur projects S.E. descend NE slope 50 ft
23.00 Ravine course S.E. ascend SW slope 75 ft
25.50 Spur projects S.E. descend NE. slope 150 ft
31.50 Creek 50 lks wide 18 ins deep course S.
Ascend NW slope 150 ft.
39.95½ Set a Granite Stone 14 x 12 x 5 ins 10 ins in the
ground for ¼ sec cor, marked ¼ on N
face. from which.
A Pine 10 ins diam bears N 52° 00' E. 21 lks dist
marked ¼ S 9 B.T.
A Pine 10 ins diam bears S 35° 00' E. 10 lks
dist marked ¼ S 16 B.T.

Subdivision of T 4 N. R 1 W.

Ascend. NW. slope 250 ft.

50.00 Ridge runs NE and SW. descend SE. slope 300 ft

60.00 Creek 40 lks wide 1 ft deep course SW.
Ascend NW. slope 150 ft.

79.91 The cor of secs, 9, 10, 15, and 16.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous and heavily timbered land
79.91 chs

N 0° 2' E. bet secs 9 and 10.
Descend NW. slope 200 ft. through Pine timber.

20.00 Head of Ravine course SW. ascend SE. slope 100 ft.

29.00 Point of Spur projects W. descend N slope 250 ft.

37.00 Creek 40 lks wide 8 ins deep course W.
Ascend SW slope 100 ft

40.00 Set a Granite Stone 12 x 11 x 6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face, from which
A Pine 14 ins diam bears S 85° 00' E. 43 lks dist marked 1/4 S 10 B.T.
A Pine 10 ins diam bears S 25° 00' W. 91 lks dist marked 1/4 S 9 B.T. descend NW slope 100 ft
This cor stands on the W point of Ridge

49.50 Creek 50 lks wide 18 ins deep course SW.
Ascend gradual S slope 100 ft

57.80 Creek 8 lks wide 5 ins deep course SW.

60.00 Dome Creek 8 lks wide 3 ins deep course SE.

68.00 Dome Creek 8 lks wide 5 ins deep course SW.

73.00 Dome Creek 8 lks wide 5 ins deep course SE.

80.00 Set a Granite Stone 16 x 10 x 6 ins 11 ins in the ground for cor of secs, 3. 4. 9. and 10 marked with 5 notches on S. and 3 notches on E. edges, from which
A Pine 20 ins diam bears N 29° 00' E. 15 lks dist marked T 4 N. R 1 W S 3 B.T.
A Pine 12 ins diam bears S 22° 30' E. 22 lks

Subdivision of T 4 N. R 1 W

dist. marked T 4 N. R 1 W. S 10 B.T.
A Pine 12 ins diam bears S 75° 30' W. 40 lks
dist marked T 4 N. R 1 W. S 9 B.T.
A Pine 10 ins diam bears N 71° 45' W. 52 lks
dist marked T 4 N. R 1 W. S 4 B.T.

Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
80.00 chs

August 1st at 12h 00m P.M. l.m.T. I set off 18° 00' N on the Decl arc, and observe the Sun on the Meridian the resulting Lat is 40° 46' which is the correct Lat nearly.

N 89° 49' W. on a random line bet secs 4 and 9
40.00 Set temp 1/4 sec cor.
79.85 Intersect N and S line at the cor of secs, 4. 5. 8. and 9.

Thence I run

S 89° 49' E. on a true line bet secs 4 and 9.
Descend N.E. slope 50 ft through Pine timber
2.00 Ravine course S.E. ascend SW slope 75 ft
9.00 Ridge bears N.W. and S.E. descend N.E. slope 75 ft.
23.00 Ravine course S.E. ascend SW slope 75 ft
29.00 Ridge bears NW and S.E. descend N.E. slope 75 ft
39.92 1/2 Set a Granite Stone 16 x 12 x 7. ins 11 ins in the ground, for 1/4 sec cor. marked 1/4 on N face from which,
A Pine 14 ins diam bears N 31° 00' E. 29 lks dist, marked 1/4 S 4 B.T.
A Pine 12 ins diam bears S 22° 30' E. 58 lks dist marked 1/4 S 9 B.T. descend steep N.E. slope 150 ft
47.00 Creek 40 lks wide 12 ins deep course S.E. Ascend steep S.W. slope 150 ft
54.00 Brow of bench bears NW and S.E.

Subdivision of T 4 N. R 1 W.

	Thence over bench
79.85	The cor of secs, 3. 4. 9. and 10.
	Land Mountainous
	Soil rocky 3rd rate
	Timber Pine
	Mountainous and heavily timbered land
	79.85 chs
	No° 2' E. bet secs 3 and 4.
	Ascend S.W. slope through Pine timber
	200 ft.
40.00	Set a Granite Stone 16 x 10 x 6 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face. from which,
	a Pine 30 ins diam bears N 34° 15' E 22 lks dist marked 1/4 S 3 B.T.
	a Pine 12 ins diam bears S 22° 15' W 122 lks dist marked 1/4 S 4 B.T. ascend S.E. slope through heavy Pine timber
	400 ft
80.00	Intersect First Standard Parallel N. 1.75 chs E. of the Standard cor of secs 33 and 34 heretofore described. the Closing cor is a Granite Stone in place 12 x 12 x 8 ins above ground, marked with a (+) at the exact cor point, and C C on S with 3 grooves on E and W faces, from which.
	a Pine 18 ins diam bears S 31° 00' W 16 lks dist marked T 4 N. R 1 W. S 4 B.T.
	a Pine 12 ins diam bears S 65° 00' E. 36 lks dist marked T 4 N. R 1 W. S 3 B.T.
	Land Mountainous
	Soil rocky 3rd rate
	Timber Pine
	Mountainous and heavily timbered land 80.00 chs
	Aug 1st 1904
	August 2nd 1904 At 8 h 30 m AM. L.M.T. I set off 40° 42'. on Lat arc. 17° 48' N on Decl arc, and determine a

Subdivision of T 4 N. R 1 W

true Meridian with the Solar, at the cor of secs 2. 3. 34. and 35. on the S. bdy of the Tp. which is a Granite Stone 12 x 10 x 6 ins above ground, marked and witnessed as described by Dep. Surv. Martineau, Contract No 265.

Thence I run

N 0° 3' E bet secs 34 and 35.

Descend NW slope 100 ft. through Pine timber.

29.00 Creek 10 lks wide 6 ins deep course NW.

Ascend SW slope 100 ft

40.00 Set a Granite Stone 19 x 11 x 6. ins 15 ins in the ground, for 1/4 sec cor. marked 1/4 on W face. from which

A Pine 14 ins diam bears S 45° 45' E. 11 lks dist marked 1/4 S 35 B.T.

A Pine 20 ins diam bears N 25° 30' W 12 lks dist marked 1/4 S 34 B.T. ascend rocky SW slope 600 ft.

70.00 Leave timber bears E and W.

80.00 Set a Granite Stone 24 x 8 x 6 ins 18 ins in the ground, for cor of secs 26. 27. 34. and 35. marked with 1 notch on S and 2 notches on E. edges, and raised a mound of stone 2 ft base 1 1/2 ft high W of cor. Pits impracticable.

Land Mountainous.

Soil rocky 3rd rate

Timber Pine

Mountainous or heavily timbered land

80.00 chs

West on a random line bet secs 27 and 34

40.00 Set temp 1/4 sec cor.

79.65 Intersect N and S line 5 lks N of cor of secs, 27. 28. 33. and 34.

Thence I run

N 89° 58' E. on a true line bet secs 27 and 34

Ascend SW. slope 600 ft, through Pine timber

5.00 Leave timber bears NW. and SE.

Subdivision of T 4 N. R 1 W.

24.00	Point of Ridge projects S. descend S.E. slope 75 ft.
39.82 1/2	Set a Granite Stone 14 x 7 x 7 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on N face, and raised a mound of stone 2 ft. base 1 1/2 ft high N of cor. Pits impracticable
	Descend S.E. slope 450 ft.
60.00	Head of Ravine course S. ascend S.W. slope 350 ft
79.65	The cor of secs 26. 27. 34 and 35. Land Mountainous Soil rocky 4th rate Timber Pine
	Mountainous or heavily timbered land. 79.65 Chs

	No° 3' E. bet secs, 26 and 27. Ascend rocky SW slope 600 ft.
15.00	Ridge bears North and S.E. thence along Ridge
40.00	Set a Granite Stone, 16 x 10 x 5 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 1 1/2 ft high W of cor. Pits impracticable
	Descend steep Rocky N.E. slope 1000 ft
66.00	Creek 30 lks wide 1 ft deep course N.W. Ascend S slope 50 ft.
75.00	Enter Pine timber bears E and W.
80.00	Set a Granite Stone 17 x 12 x 7 ins 12 ins in the ground for cor of secs, 22. 23. 26 and 27. marked with 2 notches on S and 2 notches on E. edges, from which A Pine 14 ins diam bears N 35° 15' E. 16 lks dist marked T 4 N. R 1 W. S 23 B. T.
	A Pine 8 ins diam bears S 25° 45' E. 17 lks dist marked T 4 N. R 1 W. S 26 B.T.
	A Pine 12 ins diam bears S 37° 30' W. 46 lks dist marked T 4 N. R 1 W. S 27 B.T.
	A Pine 10 ins diam bears N 21° 00' W 256 lks

Subdivision of T 4 N. R 1 W.

dist, marked T 4 N R 1 W S 22 B.T.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
80.00 chs

At 12h 06m P.M. l.m.t. I set off
17° 45' N on the Decl arc. and
observe the Sun, on the Meridian
the resulting Lat is 40° 44' which
is the correct Lat nearly.

S 89° 58' W on a random line bet secs 22 and 27
40.00 Set a temp 1/4 sec cor.
80.06 Intersect N and S line at the cor of
secs 21. 22. 27 and 28.
Thence I run
N 89° 58' E. on a true line bet secs 22 and 27
Along rocky N slope, through Pine timber
10.00 Leave timber bears N and S.
29.00 Point of N slope. descend N.E. slope 300 ft
40.03 Set a Granite Stone 17 x 11 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
Descend rocky N.E. slope 500 ft
65.00 Cross 20 lks wide 1 ft deep course NW.
66.00 Enter Pine timber bears NW and S.E. ascend
S.W. slope 100 ft
80.06 The cor of secs 22. 23. 26 and 27.
Land Mountainous
Soil rocky 4th rate
Timber Pine
Mountainous or heavily timbered land
80.06 chs

N 0° 3' E. bet secs. 22 and 23
Ascend S.W. slope 350 ft through Pine
timber.
40.00 Set a Granite Stone 14 x 10 x 8 ins 10 ins in the

Subdivision of T 4 N. R 1 W.

	ground dis for 1/4 sec cor. marked 1/4 on W face. from which.
	A Pine 14 ins diam bears S 36° 30' E. 147 lks dist, marked 1/4 S 23. B. T.
	A Pine 6 ins diam bears S 45° 45' W. 76 lks dist marked 1/4 S. 22 B.T.
	This cor stands on Top of Ridge bears N and S.E.
	Descend N slope 75 ft
49.00	Creek 8 lks wide 6 ins deep course W. ascend S slope 75 ft.
54.00	Spur projects W. descend N slope 75 ft
63.00	Creek 10 lks wide 5 ins deep course W.
	Ascend S slope 50 ft.
72.00	Ridge bears E and W. thence along Ridge
80.00	Set a Granite Stone 16 x 14 x 5 ins 11 ins in the ground for cor of secs 14. 15. 22. and 23 marked with 3 notches on S and 2 notches on E. edges, and raised a mound of stone 2 ft base 1½ ft high W of cor
	Tits impracticable.
	A Pine 14 ins diam bears S 8° 00' E. 216 lks dist marked T 4 N. R 1 W. S 23 B.T.
	A Pine 14 ins diam bears S 3.30 W. 216 lks dist marked T 4 N. R 1 W. S 22 B.T.
	No other bearing trees available.
	Land Mountainous Soil rocky 3rd rate
	Timber Pine
	Mountainous or heavily timbered land
	80.00 chs
	S 89° 58' W on a random line bet secs 15 and 22
40.00	Set a temp 1/4 sec cor.
80.10	Intersect N and S line 5 lks S of cor of secs 15. 16. 21. and 22.
	Thence Down
	East on a true line bet secs 15 and 22
	Ascend W slope 100 ft through Pine timber
3.00	Spur projects W. descend to rolling Creek
4005	Set a Granite Stone 14 x 10 x 5 ins 10 ins in the ground, for 1/4 sec cor. marked 1/4 on N face from which.

Subdivision of T 4 N. R 1 W.

A Pine 12 ins diam bears N 71° 30' W. 169 lks dist marked 1/4 S. 15 B.T.
A Pine 5 ins diam bears S 83° 15' W. 195 lks dist marked 1/4 S 22 B.T.

44.00 Enter meadow, leave timber bears N E and S W,

65.00 Leave meadow, enter Pine timber bears N & and S W.

Thence along N slope

80.10 The cor of secs, 14. 15. 22. and 23,

Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous or heavily timbered land
80.10 chs

August 2nd 1904

August 3rd 1904. At 8h 00m A. M. L. m. T.
I set off 40° 46' on the Lat arc 17° 32' N. on Decl arc. and determine a line Meridian with the Solar, at the cor of secs, 14. 15. 22. and 23.

Thence I run

N 0° 3' E. bet secs 14 and 15.

Descend N slope 50 ft

2.00 Creek 5 lks wide 6 ins deep course W. ascend rocky S slope 800 ft

40.00 On top of Ridge bears E. and W.
Set a Granite Stone 17 x 11 x 6 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 1 1/2 ft high W of cor.

Pits impracticable

Descend rocky NW slope 500 ft.

80.00 Set a Granite Stone 19 x 13 x 6. ins 15 ins in the ground, for cor of secs 10. 11. 14. and 15 marked with 4 notches on S. and 2 notches on E. edges. and raised a mound of stone 2 ft base 1 1/2 ft high W of cor

Pits impracticable
Land Mountainous
Soil rocky 3rd rate
No timber

Subdivision of T 4 N. R 1 W.

Mountainous land
80.00 chs

West on a random line bet secs 10 and 15
40.00 Set Temp. 1/4 sec cor.
80.04 Intersect N and S line 4 lks S of cor of secs 9. 10. 15 and 16.
Thence down
S 89° 58' E. on a true line bet secs 10 and 15
Ascend NW. slope 350 ft through Pine timber.
40.02 Set a Granite Stone 18 x 8 x 6. ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N face, from which.
A Pine 14 ins diam bears N 12° 30' E. 11 lks dist marked 1/4 S 10 B. T.
A Pine 14 ins diam bears S 25° 30' W. 14 lks dist marked 1/4 S 15 B T. ascend NW slope 400 ft
73.00 Leave timber bears N. and S.
80.04 The cor of secs 10. 11. 14 and 15.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
80.04 chs

At 12 h 00 m M. clouds obscure the Sun making it impossible to take observations.

N 0° 3' E. bet secs 10. and 11.
Descend rocky NW. slope 100 ft
6.00 Enter Pine timber bears. E and W.
20.50 Creek 20 lks wide 6 ins deep course W.
Ascend S.E. slope 50 ft.
25.00 Ridge bears E. and W. descend N slope 50 ft
30.00 Thence over rolling land.
38.00 Ascend SW slope 50 ft
40.00 Set a Granite Stone 17 x 12 x 7. ins 12 ins in the ground, for 1/4 sec cor. marked 1/4 on W. face. From which
A Pine 6 ins diam bears S 48° 00' E. 12 lks dist

Subdivision of T 4 N. R 1 W.

	marked 1/4 S 11 B. T. A Pine 12 ins diam bears S 72° 00' W. 16 lks dist marked 1/4 S 10 B.T. ascend SW slope 50 ft.
51.00	Ridge bears E. and W. descend N.E. slope 100 ft.
68.00	South edge of Lake, bears N 45° E and N 70° W. To determine the distance across, I set a flag on line, on the N. side of Lake: then measure a base line N 89° 57' E. 10.00 chs, to a point from which the flag bears N 41° 33' W. from the flag the E. end of the base bears S 41° 33' E. therefore the dist, is Tan 48° 30' X base or 1.13029 X 10.00 = 11.30 chs making the total dist to N side of Lake 68.00 + 11.30 chs or
79.30	North bank of Lake bears E and W. Thence over rolling land through Pine timber.
80.00	Set a Granite Stone 18 X 10 X 6 ins 12 ins in the ground, for cor of secs 2. 3. 10 and 11. marked with 5 notches on S and 2 notches on E. edges. from which A Pine 10 ins diam bears N 15° 00' E. 19 lks dist marked T 4 N. R 1 W. S 2 B.T. A Pine 10 ins diam bears S 76° 30' E. 86 lks dist marked T 4 N. R 1 W. S 11 B.T. A Pine 14 ins diam bears S 39° 00' W. 33 lks dist marked T 4 N. R 1 W. S 10 B. T A Pine 12 ins diam bears N 67° 45' W. 15 lks dist marked T 4 N. R 1 W. S 3 B.T. Land Mountainous Soil rocky 3rd rate Timber Pine Mountainous or heavily timbered land 80.00 chs
	N 89° 58' W. on a random line bet secs 3 and 10
40.00	Set temp 1/4 sec cor.
79.90	Intersect N and S line 4 lks N of cor

Subdivision of T 4 N. R 1 W.

of secs 3. 4. 9. and 10.
Thence I run
East on a true line bet secs 3 and 10.
Ascend S.W. slope 150 ft through Pine timber.

21.00 Point of Spur projects S.W. descend S.E. slope 200 ft

32.00 Leave timber bears N.E. and S.W.

39.00 Creek 30 lks wide 1 ft deep course S.W. ascend NW slope 10 ft

39.95 Set a Granite Stone 14 x 10 x 8 ins 10 ins in the ground for 1/4 sec cor, marked 1/4 on N face, and raised a mound of stone 2 ft base 1½ ft high N of cor
Pits impracticable
Ascend NW slope 200 ft.

54.00 Enter Pine timber bears N.E. and S.W.

76.00 Spur projects S.W. descend S.E. slope 50 ft

79.90 The cor of secs 2. 3. 10. and 11.
Land Mountainous
Soil rocky 3rd rate
Timber Pine
Mountainous or heavily timbered land
79.90 chs

N 0° 3' E. bet secs 2 and 3.
Ascend S.E. slope through Pine timber 50 ft

5.00 Spur projects S.W. descend NW slope 50 ft

9.50 Creek 4 lks wide 6 ins deep course S.W. ascend S.E. slope 50 ft

20.00 Spur projects S.W. descend NW slope 100 ft

27.00 Creek 30 lks wide 1 ft deep course S.W.
Ascend S.E. slope 75 ft.

40.00 Set a Granite Stone 16 x 12 x 10 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on W face, from which
A Pine 18 ins diam bears N 68° 00' E. 10 lks dist marked 1/4 S 2 B.T.
A Pine 12 ins diam bears N 68° 45' W. 43 lks dist marked 1/4 S 3 B.T. ascend S.E. slope 30 ft.

42.00 Ridge bears N.E. and S.W.

Subdivision of T 4 N. R 1 W.

Descend NW slope 50 ft.

48.50 Creek 10 lks wide 12 ins deep course SW, ascend S.E. slope 250 ft.

70.00 Spur projects S.W. descend NW slope 40 ft

78.00 Creek 5 lks wide 4 ins deep course S.W. ascend S.E. slope 15 ft

80.05 Intersect First Standard Parallel N. 1.56 chs E. of the Standard sec cor. to secs 34 and 35. heretofore described. Set a Granite Stone 16 x 8 x 4 ins 11 ins in the ground, for Closing Cor. of secs 2 and 3 marked C.C. on S. with 4 grooves, on W and 2 grooves on E. faces, from which a Pine 18 ins diam bears S 26° 30' E. 156 lks dist marked T 4 N. R 1 W. S 2 B.T.
A Pine 18 ins diam bears S 71° 00' W. 120 lks dist marked T 4 N. R 1 W. S 3 B.T.

Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
80.05 chs

August 3rd 1904

August 4th 1904. At 9h 30m A.M. l.m.T. I set off 40° 42' on Lat Arc. 17° 16' N on Decl Arc and determine a true Meridian with the Solar, at the cor of secs 1. 2. 35. and 36. on the S. bdy of the Tp. which is a Granite stone 10 x 8 x 6 ins above ground, marked and witnessed as described by Dep. Martinicau's Contract No 265.

Thence I run
No° 4' E. bet secs, 35 and 36.
Descend NW slope 50 ft through Pine timber

8.00 Ravine course W. ascend SW slope 250 ft

35.00 Leave timber bears NW and S.E.

40.00 Point for 1/4 sec cor fallen on rock in place 6 x 2 x 1 ft above ground, at cor point cut a cross (X) for 1/4 sec cor marked 1/4 on W of cross raise a mound of stone 2 ft. base 1 1/2 ft high

Subdivision of T4N R1W

W of cor. pits impracticable

47.50 Intersect E Bdy of the Wintah Indian Reservation on top of dividing ridge Set a Sand Stone 16X12X8 ins 11 ins in the ground for Closing Cor secs 35 and 36. Marked C.C. U1R 1 groove on S 1 groove on E and UFR on N faces. raise a mound of stone 2 ft. base 1½ ft high S of cor. pits impracticable.

From Closing cor the 53rd mile cor on the Bdy as established by Deputies A.H. and F.M. Brown bears S 36° E 0.80 chs dist.

Land mountainous

Soil stony 3rd and 4th rate timber pine

Mountainous or heavily timbered land. 47.50 chs.

From the cor of secs 26, 27, 34 and 35. hereto for. described Knowing I will Intersect the Reservation Bdy at less than 80.00 chs I run E on a true line bt secs 26 and 35. Over mountainous land ascending rocky S.W. slope

20.00 Top of ridge bears N.W. and SE 400 ft above cor. descend S.E. slope

40.00 Set a granite Stone 16X10X5 ins 11 ins in the ground for ¼ sec cor. Marked ¼ on N face. raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable

45.00 Spring branch 3 lks wide 4 ins deep course NW. 250 ft below ridge ascend SW slope

56.9.a. Intersect E Bdy of the Wintah Indian Reservation on top of dividing ridge Set a granite Stone 16X10X5 ins. 11 ins in the ground for Closing cor. secs. 26 and 35 marked C.C. U1R on W. 1 groove on S and UFR on E faces. raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable. From Closing cor. the ½ mile cor between the 53rd and 54th mile posts on the Bdy as established by Deputies AH and F.M. Brown bears S 36° E 0.40 chs dist

Subdivision of T4NR1W

Land mountainous
Soil stony 4th rate -
no timber
mountainous land 56.90 Chs

Aug 4 - At the cor of secs 22-23-26 and 27 at 11h 54m l. m.t. I set off 17°13'N on decl on and observe the sun on the meridian resulting lat being 40°44'N which is the correct lat. Thence I run East on a true line kt. secs 23 and 26. Over mountainous land through pine timber ascending gradual S.W. slope

18.00 Top of ridge bears N.W. and S.E. 100 ft above cor descend N.E. slope

27.00 Creek 15 lks wide 1 ft deep course S.W. 75 ft below ridge. leave timber enter open bears N and S ascend steep rocky SW slope

40.00 Point for cor falls on a rock in place 4x2x2 ft above ground. at cor point I cut a cross (X) for 1/4 sec cor marked 1/4 on N of cross. raise a mound of stone 2 ft base 1½ ft high N of cor pits impracticable. 1/4 cor 500 ft above creek continue ascent SW slope

80.00 Set a granite stone 16x10x9 ins 11 ins in the ground for the cor of secs 23-24 25 and 26. marked with 2 notches on the S and 1 notch on the E edges raise a mound of stone 2 ft base 1½ ft high W of cor pits impracticable
Land mountainous
soil stony 3rd and 4th rate
timber pine
Mountainous or heavily timbered land 80.00 Chs

Knowing I will intersect Reservation Bdy at less than 80.00 chs I run
S0°4'W Bet secs 25 and 26
Over mountainous land along rocky

Subdivision of T 4N R 1W

West slope of mountain gradual ascent

40.00 Set a granite stone 20x6x6 ins. 15 ins in the ground for 1/4 sec cor. marked 1/4 on the W face. raise a mound of stone 2 ft. base 1½ ft high W of cor. pits impracticable

48.43 Intersect the East bdy of the Wintah Indian Reservation on top of dividing ridge Set a granite stone 20x12x5 ins. 15 ins in the ground for Closing Cor to secs 25 and 26. marked C.C. U I R on N. 1 groove on E and U F R on S faces. raise a mound of stone 2 ft. base 1½ ft. high N of cor From Closing Cor the 54 mile cor on the bdy as established by Deputies A.H. and F.M. Brown. bears S 61° W. 15.00 Chs dist

Land mountainous

Soil stony 4th rate —

Mountainous land 48.43 Chs

Knowing that I will Intersect Reservation Bdy at less than 80.00 chs. I run from the cor of secs. 23-24, 25 and 26, heretofore described E on a true line bet secs. 24 and 25. Over mountainous land ascending steep rocky W slope

9.26 Intersect the E bdy of the Wintah Indian Reservation on top of dividing ridge Set a sand stone 20x10x6 ins. 15 ins in the ground for Closing Cor secs 24 and 25 marked C.C. U I R on W 2 grooves on S and U F R on E faces raise a mound of stone 2 ft. base 1½ ft. high W of cor pits impracticable. From Closing cor the 55th mile cor on the bdy as established by Deputies A.H. and F.M. Brown bears as follows N 9° 45' E 9.35 chs to angle cor. Thence N 28° 15' W 6.40 Chs to 55th mile cor.

Land mountainous

Soil stony 4th rate —

No timber

Mountainous land 9.26 Chs.

Aug 4-04

Subdivision T 4N R 1W

August 5. a 8hr. ave l m t. I set off 40°44' N on lat arc. 17° 00' N on decl arc and determine a meridian at the cor of secs 23-24-25 and 26. Thence N0°4'E bet secs 23 and 24 Over mountainous land ascending along SW slope

18.00 Top of ridge bears E and W 150 ft above cor descend NW. slope

40.00 Set a sand stone 20x10x4 ins. 15 ins in the ground for 1/4 sec cor. Marked 1/4 on the W face raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable

58.00 Draw drains W. 350 ft below ridge ascend South slope

70.00 Top of ridge bears E and W 250 ft above draw descend North slope.

75.00 Ravine drains NW. 73 ft below ridge ascend South slope to cor

80.00 Point for cor falls on a rock in place 2x2x1 ft above ground at cor point cut a cross (X) for the cor of secs 13-14-23 and 24 marked with 3 notches to S and 1 notch to East of cross raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable.

Land mountainous

Soil stony 4th rate

No timber

Mountainous land 80.00 chs.

West on a random line bet secs. 14 and 23

40.00 Set temp 1/4 sec cor.

79.90 Intersect N and S line 14 lks S of the cor of secs 14-15-22 and 23. Thence I run S89°54'E on a true line bet secs 14 and 23 Over mountainous land along gradual North slope.

7.00 Leave open and enter timber bears NW and SE

15.50 Draw drains NW. ascend SW slope

Subdivision of T 4 N R 1 W

20.00 Leave bunker hors NW and SE. Continue ascent rocky SW slope

39.95 Point for 1/4 sec. cor falls on a rock in place 4X4X1 ft above ground. at cor point cut a cross (X) for 1/4 sec cor marked 1/4 on N of cross raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable

45.00 Top of ascent, rocky south slope of ridge descend S.E. slope

60.00 Draw course S. 150 ft below top of ridge ascend SW slope to cor.

79.90 The cor of secs 13, 14, 23, and 24, 600 ft above draw.

Land Mountainous
Soil stony 3rd and 4th rate.
Timber pine.
Mountainous or heavily timbered land. 79.90 Chs.

Knowing I will intersect the Reservation Bdy at less than 80.00 Chs. I run.
E on a true line bt secs. 13 and 24. Over mountainous land, ascending along SW slope

29.80 Intersect E Bdy of the Wuitak Indian Reservation on top of dividing ridge. Set a granite stone 18X10X7 ins 12 ins in the ground for Closing Cor. Secs 13 and 24. Marked C.C. U1R on W 3 grooves on S and UFR on E faces raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable
From Closing Cor. the 56th mile cor on the Bdy as established by Deputies A H and F. M. Brown hors. N 43° 15' W 4.92 Chs dist

Land Mountainous
Soil stony 4th rate
No timber
Mountainous land 29.80 Chs.

August 5th at 11h 54m a.m. l.m.t I set off 16° 58' N on decl arc, and observe the sun on the meridian, resulting lat being 40° 45' N which is within one minute of the correct lat.

Subdivision of T 4 N R 1 W

From the cor of secs 13. 14. 23. and 24 heretofore described. I rem. N 0°4' E let secs 13 and 14 Over mountainous land ascending along rocky S.W. slope

31.80 Intersect East Bdy of the Wintah Indian Reservation on top of dividing ridge. Set a granite stone 15 X 10 X 5 ins. 10 ins in the ground for closing cor secs. 13 and 14. Marked C.C. U 1 R 3 grooves on S. 1 groove on E. and UF R on N faces. raise a mound of stone 2 ft base 1½ ft high S of cor. pits impracticable

From the closing cor. the ½ mile cor let. the 56th and 57 mile posts on the bdy as established by Deputies A H and F M Brown bears. N 43°15 W 1.39 chs dist.

As this line will cross the Bdy again within a few chains. I continue N 0°4' E on a blank line through the Wintah Forest Reserve. on high ridge

33.84 Intersect. E. Bdy of the Wintah Indian Reservation on top of dividing ridge. Set a granite stone 15 X 12 X 8 ins. 10 ins in the ground for closing cor secs 13 and 14. Marked C.C. U 1 R on N. 1 groove on E and UF R on S faces raise a mound of stone 2 ft base 1½ ft high N of cor pits impracticable. From closing cor the ½ mile cor let. the 56 and 57 mile posts on the Bdy. as established by Deputies A.H. and F M Brown. bears S 42°45 W 1.40 chs dist.

Thence N 0°4' E in Reservation descending N.W. slope

40.00 Set a sand stone 16 X 8 X 5 ins 11 ins in the ground for ¼ sec cor. marked ¼ on W face. raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable

Continue descent N.W. slope

50.00 Draw course W 200 ft below ¼ sec cor. ascend rocky SW slope

65.00 Top of ridge bears E and W 200 ft above draw descend steep N slope over slide rock and ledges

77.50 Head of draw drains W 1000 ft below ridge ascend South slope

80.00 Point for cor falls on a rock in place 5 X 4 X 2 ft above ground at cor point

Subdivision of T 4 N R 1 W

Cut a cross (X) for the cor. of sec 11-12-13 and 14 Marked with 4 notches on the S and 1 notch on E of cross raise a mound of stone 2 ft. base 1½ ft high W of cor. Pits impracticable
Land mountainous
Soil Stony 4th rate—
No timber
Mountainous land 77.96 chs.

N 89° 54' W on a random line bet secs 11 and 14

40.00 Set temp ¼ sec cor.

80.04 Intersect N and S line 3 chs N of the cor of secs 10-11-14 and 15. Thence run S 89° 55' E on a true line bet secs 11 and 14
Over mountainous land
ascending NW slope

20.00 Top of ridge bears N and S 300 ft above cor
descend NE slope

40.02 Set a granite stone 16 x 10 x 5 and 11 ins in the ground for ¼ sec cor. marked ¼ cor N pits raise a mound of stone 2 ft. base 1½ ft high W of cor pits impracticable

48.00 Brow course NW. 500 ft. below ridge ascend steep rocky W slope

59.00 Spur projects NW. 350 ft above brow descend NE. slope. A lake about 18 a in extent bears N 6 chs dist.

77.00 Brow course NW. 200 ft. below spur ascend SW slope to cor

80.04 The cor of secs 11-12-13 and 14.
Land mountainous
Soil Stony 4th rate -
No timber
Mountainous land 80.04 chs.

Running that I will subtract the Reservation Bdy at less than 80.00 chs
I run E on a true line bet secs 12 and 13
Over mountainous land ascending along rocky NW. slope

Subdivision of T4NR1W

40.00 Set a granite stone 16X10X6 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on the N face. raise a mound of stone 2 ft base 1 1/2 ft high N of cor pits impracticable

42.88 Intersect the E. bdy. of the Uintah Indian Reservation on top of dividing ridge. Set a granite stone 18X10X10 ins 12 ins in the ground for Closing cor sees 12 and 13. Marked C.C. U.I.R on W 4 grooves on S. and U.F. R on E faces raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable

From the Closing cor the 1/2 mile cor bet the 57th and 58 mile posts on the bdy as established by Deputies A.H and F.M Brown bears N 42° 45' E 15.35 chs dist.

Land mountainous

Soil stony 4th rate

No timber

Mountainous land 42.88 chs

Aug 5th 1904

August 6. At 8h a.m. l.m.t. I set off 40°45' on lat arc 16°44' N on decl arc. and determine a meridian at the cor of sees 11-12-13 and 14

Thence I run. N0°4'E bet sees 11 and 12 Over mountainous land

1.00 Begin steep descent N.W. slope

3.50 Creek 5 lks wide 3 ins deep course W 100 ft below cor. Enter timber bears E and W

4.00 Ascend SW slope

33.00 Leave timber bears W and S.E.

40.00 Point for 1/4 sec cor. falls on a rock in place 4X2X1 ft above ground. at cor point cut a cross (X) for 1/4 sec cor. Marked 1/4 on W of cross raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable

53.00 Top of ridge bears NW and S.E. 700 ft above creek

Subdivision of T. 4N R1W

descend rocky N.E. slope

78.00 Spur projects NW.

79.30 Creek 5 lks wide 1 ft deep course NW.
ascend to cor. Enter timber bars E and W

80.00 Set a granite stone 18 x 12 x 8 ins 12 ins in the ground for the cor of secs 1-2-11 and 12
Marked with 5 notches on the S and 1 notch on the E edges. from which
a pine 12 ins diam bars N 42°E 51 lks dist
Marked T 4N R1W S 1 B.T.
a pine 30 ins diam bars S 55°E 63 lks dist
Marked T 4N R1W S 12 B.T.
a pine 12 ins diam bars S 60°30'W 109 lks dist
Marked T 4N R1W S 11 B.T.
a pine 14 ins diam bars N 13°30'W 96 lks dist
Marked T 4N R1W S 2 B.T.
Land mountainous
Soil stony 3rd and 4th rate
timber pine
Mountainous or heavily timbered land 80.00 Chs

N 89°55'W on a random line bt secs 2 and 11

40.00 Set temp 1/4 sec cor.

79.98 Intersect N and S line at the cor of secs 2-3-10 and 11. Thence I run.
S 89°55'E on a true line bt secs 2 and 11
Over mountainous land through pine timber. line along North Bank of lake

16.00 Creek 4 lks wide 4 ins deep. Course SW
Ascend NW. slope 300 ft.

39.99 Spur projects North. Set a granite stone 18 x 9 x 4 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which
a pine 12 ins diam bars N 49½°E 26 lks dist
Marked 1/4 S 2 B.T.
a pine 18 ins diam bars S 34°W 5 lks dist
marked 1/4 S 11 B.T.
descend N.E. slope

47.50 Creek 3 lks wide 4 ins deep course N

55.00 Creek 2 lks wide 3 ins deep course N

Subdivision of T4N R1W

70.00	Draw drains N.W. 350 ft below spur ascend S.W. slope
79.00	Spur projects N.W. 200 ft. above draw
79.75	Creek 5 lks wide bars deep course N.W.
79.98	The cor of secs 1-2-11 and 12 Land mountainous Soil Stony 3rd rate Mountainous or heavily timbered land 79.98 Chs.
	Knowing that I will intersect the Reservation Bdy at less than 80 chs. I run E on a true line bt secs 1 and 12 Over mountainous land ascending S.W. slope through pine timber
5.00	Spur projects N.W. 50 ft. above cor descend N.E. slope
8.00	Ravine drains N.W. 50 ft. below spur. Leave timber bears N.W. and S.E. ascend S.W. slope
40.00	Point for 1/4 sec cor falls on a rock in place 36 x 10 x 2 ins above ground. At cor point cut a cross (X) for 1/4 sec cor marked 1/4 on N of cross. raise a mound of stone 2 ft. base 1 1/2 ft. high N of cor. pits impracticable. 1/4 sec cor 600 ft. above ravine Continue ascent rocky S.W. slope
70.70	Intersect. E bdy of the Wautah Indian Reservation on top of dividing ridge Set a granite stone 16 x 8 x 4 ins. 11 ins in the ground for Closing cor secs 1 and 12 marked C.C. U I R on W. 5 grooves on S and U F R on E faces. Raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor pits impracticable From Closing cor the 1/2 mile cor bet the 58 and 59th mile posts on the bdy as established by Deputies A H and F.M. Brown bears N 3°15' W 2.86 chs dist Land mountainous Soil Stony 3rd and 4th rate timber pine

Chains	
	Northwest corner Section 1
	Original marked stone monument found.
	Earth dam constructed over original monument, approx. 10 ft. high above monument.
	Directly over original monument set an iron pipe, 2 ft. long, 3 ins. diam., with standard threads, 17 ins. in ground and in a concrete base, 3 ins. thick and 12 ins. diam. Inclosed in concrete is tin box, 3 x2½x 1 ins. containing paper with notation: "This pipe replaces the corner stone for C.C. northwest Corner Sec. 1, T. 4 N., R. 1 W., U.S.M.".
	Reported by Daniel F. Lawrence, Asst., Director, Utah Water and Power Board, in letter dated Oct. 20, 1958.

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Subdivision of T 4N R1W

Mountainous or heavily timbered land
70.70 chs

August 6
At 12 hrs. Clouds obscure the Sun making latitude observations impossible

No°4'E Bet secs 1 and 2.
Over Mountainous land through timber. Ascending SW slope
2.50 Spur projects NW. descend NE. slope
11.50 Draw drains NW. 75 ft. below ridge ascend S. slope
25.00 Top of ridge bears E and W descend N slope
30.00 Ravine drains W. ascend along SE. slope leave timber bears E and W
40.00 Point for 1/4 sec cor falls on a rock in place 3 x 2 x 2 ft. above ground at cor point cut a cross. (X) for 1/4 sec cor. marked 1/4 on W of cross raise a mound of stone 2 ft. base 1½ ft. high W of cor pits impracticable
60.00 Top of ridge bears E and W 300 ft. above Ravine. Descend N slope 75 ft.
77.00 Creek 20 lks wide 1 ft. deep course SW outlet of White Rocks lake
80.14 Intersect the 1st Standard Parallel N 1.40 chs. E of the Std cor. Secs 35 and 36 T 5N R1W. Heretofore described
Set a granite stone 14 x 12 x 6 ins 10 ins in the ground for closing cor secs 1 and 2. marked C.C on S. 5 grooves on W and 1 groove on E faces. raise a mound of stone 2 ft base 1½ ft. high S of cor pits impracticable.
Land mountainous
Soil stony 3rd and 4 rate —
timber pine
Mountainous or heavily timbered land 80.14 chs
August 6 - 1904

Note: See pg. 68A. for New description of CC Secs. 1 and 2.

Subdivision of T4NR1W

General Description

This Tp is entirely mountainous and is mostly covered with a heavy growth of pine timber. The East Boundary of the Reservation which is also the E Bdy of this Tp is the Summit of high mountain which is also timber line. Also some of the mountains along western Bdy of Tp. are also timber line. The head waters of White Rocks Creek and its forks provide an abundant water supply. There are a number of lakes in this tp. nearly all lakes and creeks are well stocked with fish. In the Southern portion of Tp. White-Rocks Canon is from 500 to 800 ft deep and very rough. In northern part are many small meadows or openings in the timber covered with a fair growth of grass. making the northern part of township a fair grazing ground for either sheep or cattle.

There are no settlers in this Tp. or improvements of any kind found no indications of mineral

Meanders of White Rock Lake in Sec 1.

I commence at the Meander cor. on the west side of the lake which is a Granite stone 9 x 5 x 6 ins above ground marked and witnessed as described by me in notes of the 1st. Standard Parallel North. August 7th 1904. at 7h 00m A. M. l. m. t. Set off 40° 47' on Sol Arc 16° 29' N on Decl Arc, and determine a Meridian with the Solar.

Thence I run with Meanders in Sec 1. Over swampy land.

S 84° 30' W. 9.20 chs. at 4.00 chs inter pine timber bears N.E. and S.W.

S 7° 30' W. 5.16 chs at 1.00 ch. lake outlet 60 lks wide course S.W.

S 60° 00' W 12.00 chs.

S 83° 45' E. 14.50 chs at 4.30 chs Creek 15 lks wide

N 80° 00' E. 12.00 chs.

N 70° 00' E. 16.60 chs. 10.00 chs large timber bears N.E. and S.W.

N 62° 30' W. 12.60 chs at 9.20 chs Creek 30 lks wide 18 ins deep. Meander cor on E. side of lake. as here to fore described.

Land mountainous
Soil rocky 2nd and 3rd rate
Timber pine.
Mountainous land 82.06 chs

Thence in Sec 36. T 5 N. R 1 W

Over Swampy land.

N 78° 30' W. 6.50 chs.

S 77° 30' W. 4.30 chs to Meander cor. on W. bank of Lake. and place of beginning.

Land mountainous
Soil rocky 2nd 3rd rate
No timber.
Mountainous land 10.80 chs.

This lake is a body of deep water more than 25 acres in extent, not drainable or likely to dry up, and forms the headwaters of the E. fork of White Rock

15

Meanders of White Rock Lake.

Creek.

Boundaries of T 4 N R 1 W

Table of

Latitudes Departures and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes N	Latitudes S	Departures E	Departures W
		chs.	chs.	chs.	chs.	chs.
South Bdy.	East.	454.14			454.14	
E. Bdy. Reservation	N 64° 15 W	33.90	14.73			30.53
" " "	N 36° W	97.20	78.63			57.14
" " "	N 61° E	38.80	18.81		33.94	
" " "	N 9° 45' E	58.00	57.16		9.82	
" " "	N 28° 15' W	14.00	12.34			6.63
" " "	N 27° 45 E	62.00	54.87		28.87	
" " "	N 43° 15' W	50.00	36.42			34.26
" " "	N 42° 45' E	110.00	80.77		74.67	
" " "	N 3° 15' W	50.00	49.92			2.84
" " "	N 57° 45' E	9.80	5.23		8.29	
Uintah. Spec. Mer.	North	72.42.	72.42.			
1st Std. P11. North.	West.	477.52				477.52
W. Bdy. South	South	480.00		480.00		
Convergency					0.63	
	Totals		481.30	480.00	610.36	608.92
			480.00		608.92	
	Error in Lat.		1.30			
	Error in Dep.				1.44	

William Dallas

U S Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

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

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

.....

showing the respective capacities in which they acted:

....., *Chainman.*

....., *Chainman*

....., *Moundman.*

In final affidavits see Cor K.H. Tp 5 N R 1 W, *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

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

....., *Chainman.*

....., *Chainman.*

....., *Moundman.*

In final affidavits see Cor K.H. Tp 5 N R 1 W, *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

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

day of ....., 190

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, , United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for , bearing date of the day of , 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

[illegible]

meridian, in the of [illegible] foregoing field notes as having been surveyed by me, and under my direction [illegible] swear that all the corners of said survey have been established and perpetuated [illegible] the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for , and in the special manner described in the field notes [illegible] the foregoing are the original field notes of such survey; and should any fraud be detected, I [illegible] the penalty of perjury under the provisions of an Act of Congress approved [illegible]

United States Deputy Surveyor.

Subscribed by said [illegible]

this day of 190 .

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, Nov 12 [illegible]

The foregoing field notes of the survey of the subdivision lines of Township 4 North Range 1 West of the Uintah Special Base & Meridian, Utah

executed by William [illegible] under his contract No. [illegible], dated [illegible] 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[illegible]

United States Surveyor General.

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

United States Surveyor General.

6—151

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BOOK A-305

E.

FIELD NOTES

OF THE SURVEY OF THE

FIRST STANDARD PARALLEL NORTH

THROUGH

RANGES 1 EAST AND 1 WEST.

Of the UINTAH SPECIAL BASE & *Meridian,*

STATE OF UTAH

AS SURVEYED BY

William Dallas, *United States Deputy Surveyo*

Under his Contract No. 267, *dated* July 20,1903, *190*

Survey commenced June 29th,1904, *190*

Survey completed July 2, 1904, *190*

6—151

R1W high 6-00-00
R1E " 1-01-23
Clay

1-23

NAMES AND DUTIES OF ASSISTANTS.

BOOK A-305

INDEX DIAGRAM.

bet Township 4 and 5 N, Range 1 W. and 1 E

1st Std Pa

6	5	4	3	2	1
7	8	9	10	11	12
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19	20	21	22	23	24
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31	32	33	34	35	36

Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Wilfred B. Helms, Chester Fleming, Milton Sturdivan, Albert M. Ch[illegible] do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the First Standard Parallel North through R. 1 E. and 1 W. of the Uintah Special Base and Meridian Utah

Wilfred B. Helms, Chester Fleming, Chainmen.

Milton Sturdivan, Albert M. Chamberlain, Chainmen.

Subscribed and sworn to before me this 29th day of June, ~~18~~ 1904

William Dallas
U. S. Deputy Surveyor

SEAL

I/WE, Richard Hugh Camp and [blank] 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 the First Standard Parallel North through R. 1 E. and 1 W. of the Uintah Special Base and Meridian Utah

[blank], Moundman.

Richard Hugh Camp, Moundman.

Subscribed and sworn to before me this 29th day of June, ~~18~~ 1904

William Dallas
U. S. Deputy Surveyor

SEAL

I/WE, Douglas King and [blank] do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the First Standard Parallel North through R. 1 E. and R. 1 W. of the Uintah Special Base and Meridian Utah

Douglas King, Axman.

[blank], Axman.

Subscribed and sworn to before me this 29th day of June 1904, ~~18~~

William Dallas
U. S. Deputy Surveyor

SEAL

I, Thomas Sands Doty, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the First Standard Parallel North through R. 1 E and 1 W. of the Uintah Special Base and Meridian Utah

Thomas Sands Doty, Flagman.

Subscribed and sworn to before me this 29th day of June 1904, ~~18~~

William Dallas
U. S. Deputy Surveyor

SEAL

6—151

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

Survey commenced June 29, 1904, and executed with a W. and L.E. Gurley Solar compass with telescope attachment. The horizontal limb having two double verniers placed opposite to each other and reading to single minutes of arc.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah May 6.1904.

I begin at the standard corner of Tp. 5 N., Rs. 1 and 2 W., of the Uintah Special Base and Meridian, Utah, which is a sandstone 6x10x10 ins. above ground firmly set and marked and witnessed as described by Deputy H.E. Freudenthal under his Contract 268, longitude 110°64'W, lat. 40°47'N.

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

At 4h 30 m p.m., l.m.t., I set off 40°47'N. on lat arc; 23°15'N. on decl. arc; and mark the meridian thus determined with the solar by a cross on a stone firmly set in the ground 5 chains N. of the cor.

June 30th, 1904: At 0h 53m a.m. l.m.t., by my watch, which is correct, I observe Polarias at eastern elongation in accordance with the Manual of Instructions, and mark the line thus determined by a tack driven in a peg set in the ground 5 chs. N. of my station.

June 30, 1904: At 7 h a.m., l.m.t., I lay off the azimuth of Polarias 1°34' to the West and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.1 ins. W. of the mark determined by the solar.

At 8 h 00 m, a.m., I set off 40°47'N. on the lat arc; 23°12'N. on the decl arc; and mark the true meridian determined with the solar by a cross on the stone

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
	already set 5 chs.N.of my station.The mark falls 0.3 ins.W.of the meridian established by the Polaris observation.
	The solar apparatus by p.m.and a.m.observations defines position for meridians about 0'5" E.and 0'16" W.of the meridian established by the Polaris observations;therefore I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the meridian at 8 h 30 m a.m.is N.16°40'W.;the angle thus determined gives the magnetic decl.16°40'E.
	From the standard cor.above described,I run
	East on S.bdy.sec.31.
	Mountainous land.
1.66	Creek,20 lks.wide,1 ft.deep,course SE.
2.48	Intersect the closing cor.T.4 N.,Rs.1 and 2 W.,as described by Deputy H.E.Freudenthal Cont.268.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 8 lks.position of middle point
	By 1st set,40.04 chs.,
	By 2nd set,39.96 chs.,the mean of which is
40.00	Set a granite stone 16x14x8 ins.11 ins.in the ground for Standard $\frac{1}{4}$ sec.cor.marked S C $\frac{1}{4}$ on N.face;from which
	A pine 6 ins.diam..bearsN.54°E.
	32 lks.dist.marked S C $\frac{1}{4}$ S 31 B T.
	A pine 12 ins.diam.bears N.28°W.,58 lks.dist. marked S C $\frac{1}{4}$,S31 B T.ascend SW.slope 150 ft.
58.00	Ridge bears SE. Descend NE.slope 150 ft.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 12 lks.position of middle point
	By 1st set,79.94 chs.,
	By 2nd set,80.06 chs.,the mean of which is
80.00	Set a granite stone 20x6x8 ins.15 ins.in the ground

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
	for Standard cor.of secs.31 and 32 marked S C on N. with 1 groove on W.and 5 grooves on E.face;from which A pine 14 ins.diam.,bears N.48°E. 38 lks.dist.,marked T 5 N R 1 W S 32 B T. A pine 6 ins.diam.,bears N.15°00'W. 47 lks.dist.,marked T 5 N R 1 W S 31 B T. Land mountainous. Soil;rocky,3rd rate. Timber,pine. Mountainous and heavily timbered land 80.00 chs.

	East on S.bdy sec.32.
	Descend E.slope through pine timber 100 ft.
2.00	Ravine 1 ch.wide,50 lks.deep,course SE.
21.83	To the W.bank of lake bears N.and S.To determine distance across I set a flag on line on the E.side of the lake then measure a base line South 3.00 chs. to a point whence the flag bears N.46°41'E.from the flag the S.end of the base bears S.46°41'W.;by separate measurement of each angle they are found respectively 90°00'46°41'43°19',their sum being 180°00',and compute the distance across the lake as follows: Tan.46°41' X base,or 1.060 X 3.00 = 3.18 chs.;also 21.83 + 3.18 makes
25.01	To E.bank of lake bears N.and S. Ascend W.slope 40 ft.
28.00	Spur projects SE. Descend NE.slope 50 ft. Difference between measurements of 40.00 chs.by two sets of chainmen is 4 lks.;position of middle point By 1st set,39.98 chs., By 2nd set,40.02 chs.,the mean of which is
40.00	Set a granite stone 16x12x6 ins.,11 ins.in the ground for Standard $\frac{1}{4}$ sec.cor. marked S C $\frac{1}{4}$ on N.face from which

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
	51 lks.dist.marked S.C ¼ S 32 B T.
	A pine 14 ins.diam.bears N.76°00' W.15 lks.dist marked S C ¼ S32 B T;Descend NE.slope 200 ft.
76.00	Leave timber,bears N.and S.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 14 lks.;position of middle point
	By 1st set,79.93 chs.,
	By 2nd set,80.07 chs.,the mean of which is
80.00	Set a granite stone 16x12x5 ins.11 ins.in the ground for Standard cor.of secs.32 and 33 marked S C on N. with 2 grooves on W.,and 4 grooves on E.face;and raised a mound of stone 2 ft.base,1½ ft.high N.of cor
	Pits impracticable.
	Land mountainous.
	Soil;rocky,3rd rate.
	Timber,pine.
	Mountainous or heavily timbered land 80.00 chs.
	June 30th,1904.

	July 1st,1904: At 10 h 30 m a.m.,l.m.t.,I set off 40°47' on the lat arc;23°07'N.on the declarc;and determine a true meridian with the solar at the cor. of secs.32 and 33.
	Thence I run
	East on S.bdy.of sec.33.
	Descend NE.slope 50 ft.
7.00	Creek,20 lks.wide,18 ins.deep,course SE.
	Ascend SW .slope 250 ft.
18.00	Enter pine timber,bears NW.and SE.
	Difference of measurements of 40.00 chs.by two sets of chainmen is 6.1ks.;position of middle point
	By 1st set,40.03 chs.,
	By 2nd set,39.97 chs.:the mean of which is

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
40.00	Set a granite stone 14x10x8 ins.,10 ins.in the ground for Standard ¼ sec.cor.,marked S C ¼ on N. face;from which A pine 14 ins.diam.bears N.34°30'E. 36 lks.dist.,marked S C ¼ S33 B T. A pine 6 ins.diam. bearsN.47°00'W., 37 lks.dist.,marked S C ¼ S 33 B.T.
	Ascend SW.,slope 300 ft.
60.00	Brow of bench bears SE.and NW.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 10 lks.;position of middle point By 1st set,79.95 chs., By 2nd set,80.05 chs.;the mean of which is
80.00	Falls on a boulder 6x4x5 ft.above ground on which I cut a cross (X) at the exact cor.point for Standard cor.of secs.33 and 34 marked 3 grooves on E.and W. of cross;from which A pine 14 ins.diam.bears N.40°00'E. 52 lks.dist.,marked T 5 N R 1 W S 34 B T. A pine 6 ins.diam.,bears N.61°00'W., 26 lks.dist..marked T 5 N R 1 W S 33 B T.
	Land mountainous.
	Soil;rocky,3rd rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.
	At this cor:At 11 h 56 m a.m.,l.m.t.,I set off 23°07'N. on the decl.arc; and observe the sun as it passes the meridian;resulting lat. 40°47' ,which is the correct lat.nearly.
	---- ----------
	East on S.bdy.of sec.34.
	Over bench through pine timber.
1.00	Brow of bench bears N.and S.
	Descend N.E.slope 200 ft.
21.00	Creek;10 lks.wide,8 ins.deep.course SE.

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
	Thence over rolling land.
	Difference between measurements of 40.00 chs. by two sets of chainmen is 14 lks.;position of middle point
	By 1st set,39.93 chs.,
	By 2nd set,40.07 chs.,the mean of which is
40.00	Set a granite stone 16x14x8 ins..11 ins.in the ground for Standard ¼ sec.cor.marked S C ¼ on N.face;from which
	A pine 6 ins.diam.bears N. 4°35'E.,
	21 lks.dist. marked S C ¼ S 34 B T.
	A pine 18 ins.diam.bears N.81°25'W.,
	180 lks.dist.marked S C ¼ S 34 B T.
42.00	Leave timber bears N.and S.
53.00	Creek,5 lks.wide,10 ins.deep.course SW.
60.00	Enter pine timber,bears NE.and SW.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 2 lks.;position of middle point
	By 1st set,80.01 chs.,
	By 2nd set,79.99 chs.;the mean of which is
80.00	Set a granite stone 16x13x8 in.12.in.in the ground for Standard sec.cor.marked S C on N.face,with 4 grooves on W. and 2 grooves on E.faces;from which
	A pine 14 ins.diam.,bears N.64°00'E.
	33 lks.dist.,marked T 5 N R 1 W S 35 B T.
	A pine 16 ins.diam.,bears N.36°30'W.,
	17 lks.dist.,marked T 5 N R 1 W S 34 B T.
	Land mountainous.
	Soil;rocky,3rd rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.

	East on S bdy.sec.35.
	Over rolling land through pine timber.
18.50	Creek,10 lks.wide.10 ins.deep,course SW.

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS	
	Ascend NW.slope 100 ft.
	Difference between measurements of 40.00 chs.by two sets of chainmen is 8 lks.;position of middle point
	By 1st set,40.04 chs.,
	By 2nd set,39.96 chs.;the mean of which is
40.00	Set a granite stone 17x14x10 ins.12ins.in the ground for Standard $\frac{1}{4}$ sec.cor. marked S C $\frac{1}{4}$ on N. face; from which
	A pine 5 ins.diam.bears N.82°00'E.
	21 lks.dist.,marked S C $\frac{1}{4}$ S 35 B T.
	A pine 6 ins.diam,bears N.19°00'W.
	96 lks.dist.,marked S C $\frac{1}{4}$ S 35 B T.
41.00	Ridge bears SW. Deseend SE.slope 50 ft.
60.00	Creek,3 lks.wide,1 ft.deep.course SW.
	Ascend NW.slope 100 ft.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 4 lks.;position of middle point
	By 1st set,79.98 chs.,
	By 2nd set,80.02 chs.,the mean of which is
80.00	Set a granite stone 15x10x7 ins.,10 ins.in the ground for Standard sec.cor. of secs.35 and 36marked S C on N.,with 5 grooves on W.,and 1 groove on E. faces;from which
	A pine 8 ins.diam,bears N.44°45'E.
	2.21 chs.dist.marked T 5 N R 1 W S 36 B T.
	A pine 6 ins.diam.bears N.30°30'W.
	1.23 chs.dist.marked T 5 N R 1 W S 35 B T.
	Land mountainous.
	Soil;rocky,3rd rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS

July 1st,1904:At 4 h 00 m p.m.,l.m.t.,I set off 40°47'N.on lat arc;23°07'N.on decl arc;and determine a true meridian with the solar at the cor.of secs. 35 and 36.

Thence I run

East on S.bdy sec.36!

Over rolling land through scattering pine timber.

6.00 Trail bears NE.and SW.

Leave timber bears NE. and SW.

25.80 To bank of White Rocks Lake.

Set a granite stone 17x9x5 in.12in.in theground for Meander cor.for fracl.secs.1 and 36,marked

T 5 N S 36 on N

T 4 N S 1 on S

R 1 W with 5 grooves on W

M C on E.face,and raise a mound of stone 2 ft.base,1½ ft.high W.of cor.

Pits impracticable.

In order to get the distance across the lake I set the flag on line on the opposite bank of lake;then measure a base N.6.00 chs.to a point from which the flag bears S.60°10'E.,which gives for the distance Tan.60°10' X base,or 1.743 X 6.00 chs =10.46 chs. 25.80 +10.46 chs. = 36.26 chs. to opposite bank.

36.26 Set a granite stone 14x12x7 ins.,10 ins.in the ground for Meander cor.for fracl.secs.1 and 36,marked

T 5 N S 36 on N.

T 4 N S 1 on S.

R 1 W with 1 groove on E.

M C on W.face; raise a mound of stone 2 ft. base,1½ ft.high E.of cor.

Pits impracticable.

Thence over level bottom land.

Difference between measurements of 40.00 chs,by two

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST

Chains	
	sets of chainmen is 2 lks.;position of middle point
	By 1st set,40.01 chs.,
	By 2nd set.,39.99 chs.;the mean of which is
40.00	Set a granite stone 16x10x5 ins.11 ins.in the ground for Standard ¼ sec.cor.,marked S C ¼ on N.face,and raise a mound of stone 2 ft.base,1½ ft.high N.of cor
	Pits impracticable.
41.50	Creek,30 lks.wide,18 ins.deep.course SW.
48.00	Ascend rocky W.slope 700 ft.
	Enter pine timber bears N nd S.
70.00	Spur projects NW. Descend E. slope 75 ft.
	Difference between measurements of 80.00 chs.by two sets of chainmen is 4 lks.position of middle point
	By 1st set,79.98 chs.,
	By 2nd set,80.02 chs.,the mean of which is
80.00	Set a granite stone 24x14x10 ins.,18 ins.in the ground for Standard cor.of Tps.4 and 5 N.,Ranges 1 E. and 1 W.,marked 5 N S C on N.,1 E on E.,1 W on W., 4 N on S.,with 6 grooves on E.,W.,S. and N.faces; and raised a mound of stone 2 ft.base 1½ ft.high W.of cor.
	Pits impracticable.
	Lanf mountainuus.
	Soil;rocky,3rd rate.
	Timber,pine.
	Mountainous or heavily timbered land on 80.00 chs.
	July 1st,1904.

Not finding the Standard cor.to Tps.5 N.,Rs.1 E.and 1 W.,which is also the cor.to Tps.4 and 5 N.,Rs.1 E. and 1 W.,on the Uintah Special Meridian,which should have been established by Deputy Martineau,under his Contract No.265,and Deputy Martineau having completed,as he supposed, all the work embraced in his

East

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 ~~WEST~~.

CHAINS	
	Contract and left the field, I concluded, in order to properly close up the surveys, to establish said corner and extend therefrom the necessary surveys to a closing with the N. and E. bdys. of the Uintah Reservation.
	July 2nd, 1904: At 7 h 30 m a.m., l.m.t., I set off 40°47' on the lat arc; 23°04' N. on the decl. arc; and determine a true meridian with the solar at the Std. cor. of Tps. 4 and 5 N., Ranges 1 E. and 1 W. on the Uintah Special Meridian. Thence I run
	East on S. bdy of sec. 31, through Range 1 E.
	Descend rocky NE. slope 100 ft.
10.00	Head of ravine, course NW.
	Ascend rocky SW. slope 150 ft.
26.00	Spur projects NW.
	Descend NE. slope 50 ft.
29.00	Ravine course NW. Ascend SW. slope 75 ft.
34.50	Trail bears NW. and SE.
	Difference between measurements of 40.00 chs. bu two sets of chainmen is 6 lks. position of middle point
	By 1st set, 40.03 chs.,
	By 2nd set, 39.97 chs., the mean of which is
40.00	Set a granite stone 18x10x8 ins., 12 ins. in the ground for Standard $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face; and raised a mound of stone 2 ft. base, 1$\frac{1}{2}$ ft. high N. of cor. Pits imptacticable.
	Ascend SW. slope over slide rock 600 ft.
	Difference between measurements of 80.00 chs. by two sets of chainmen is 14 lks.; position of middlepoint
	By 1st set, 80.07 chs.,
	By 2nd set, 79.93 chs.; the mean of which is
80.00	Set a granite stone 16x14x6 ins., 11 ins. in the ground for Standard cor. of secs. 31 and 32, marked S C on N., with 1 groove on W., and 5 grooves on E. faces; and raised a

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 ~~WEST~~ East.

CHAINS	
	mound of stone 2 ft.base, 1½ ft.high N.of cor.
	Pits impracticable.
	Land mountainous.
	Soil;rocky,4th rate.
	No timber.
	Mountainous land 80.00 chs.

	East on S.bdy.of sec.32.
	Over slide rock on top of divide.
1.23	Intersect the E.bdy.of the Uintah Indian Reservation
	Set a granite stone 18x12x6 ins.12 ins.in the ground for Standard closing cor.of secs. 5 and 32 marked C C 1 E U I R with 1 groove on W.face;and U F R on E. face; and raised a mound of stone 2 ft.base,1½ ft.high W.of cor.
	From the closing cor.the 60 mile cor.on the E.bdy of the Reservation,as established by Feputies A.H. and F.M.Brown,bears S.32°00'W.,1.23 chs.to mile post No.60, which is a sandstone 8x10x7 ins. above ground marked and witnesses as described by the Surveyor General.
	Land mountainous.
	Soil; rocky,4th rate.
	No timber.
	Mountainous land 1.23 chs.
	July2nd,1904.

	Through Ranges 1 W.and 1 E. this line runs through a basin known as Whiterocks basin;the head waters of White Rocks Creek.The streams and ridges have a south-westerly direction in R.1 W.,and northwesterly in R.1 E. The land S.of the line is of a mountainous and broken character,well watered and contains a

FIRST STANDARD PARALLEL NORTH THROUGH RANGE 1 WEST.

CHAINS

heavy growth of pine timber in R.1 W.;while the land to the N.is very rocky and contains practically no timber. Range 1 E. lies on W.slope of main ridge and is almost entirely above timber line.

William Dallas

U.S.Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the ihdividuals employed by William Dallas ..... United States Deputy Surveyor, to assist in running, measuring, marking the lines and corners described in the foregoing field notes of the survey of the First Standard Parallel North through R 1 E and 1 W of the Uintah Special Base and Meridian Utah showing the respective capacities in which they acted:

Wilford B. Helne ..... Chester Fleming ....., Chainman
Milton Sturdevan ..... Albert M. Chamberlain ....., Chainman
..... , Moundman
Richard Hugh Camp ....., Moundman
..... , Axman.
Douglas King ....., Axman.
Thomas Sands Doty ....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William Dallas ..... United States Deputy Surveyor, in surveying a those parts or portions of the First Standard Parallel North through R 1 E and 1 W. ..... of the Uintah 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

Wilford B. Helne. Chester Fleming ....., Chainman.
Milton Sturdevan ..... Albert M. Chamberlain Chainman.
..... , Moundman
Richard Hugh Camp ....., Moundman.
Douglas King ....., Axman.
..... , Axman.
T. Sands Doty ....., Flagman.

Subscribed and sworn to before me this 3rd day of July 1904, [illegible]

SEAL

William Dallas
U.S. Deputy Surveyor

6-161

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William Dallas, 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 20th 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 the First Standard Parallel North through R. 1E and 1W.

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.

William Dallas
United States Deputy Surveyor.

Subscribed by said William Dallas, and sworn to before me this 3d day of October, 1904

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 12, 1904.

The foregoing field notes of the survey of the First Standard Parallel North through Ranges 1 East & 1 West of the Uintah Special Base & Meridian Utah

executed by William Dallas under his contract No 267, 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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BOOK A-305

O.W.S.

FIELD NOTES

OF THE SURVEY OF THE

West Boundary

of

Township 5 North Range 1 West

Of the Uintah Special Base & Meridian,

State of Utah

AS SURVEYED BY

William Dallas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 9a, 190

Survey commenced June 29, 19

Survey completed June 29, 190

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Angle 2 35. 20"

Chg 0.00 24"

BOOK A-305

NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Helme	Chainman
Chester Fleming	Chainman
Richard Hugh Camp	Moundman
Douglas King	Axman
Thomas Sands Doty	Flagman

Tax preliminary affidavits see book A Tp 2 N R 2 W

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BOOK A-305

INDEX DIAGRAM.

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

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

_____

_____, *Chainman.*

_____, *Chainman.*

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

_____

SEAL

_____

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

_____

_____, *Moundman.*

_____, *Moundman.*

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

_____

SEAL

_____

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

_____

_____, *Axman.*

_____, *Axman.*

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

_____

SEAL

_____

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

_____, *Flagman.*

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

_____

SEAL

_____

West boundary of T 5 N. R 1 W.

June 29th 1904. At 9h 00m A.M. l. m. t.
I set off 40° 47' + on Lat Arc. 21° 42' N
on the Decl arc, and determine a
true Meridian with the Solar, at the
Standard Tp cor. to Tps 5 N. Rs 1 and
2 W, which is a stone 6 x 10 x 14 ins above ground marked and witnessed as
described by Deputy U.S. Surveyor Thornthal in his Contract No 268. The
Meridian falls 0' 10" E. of the Meridian
established by Polaris observation
June 29th 1904.
I therefore conclude, the Solar
apparatus is in good adjustment
and sun.
North bet secs. 31. and 36.
Over rolling land through Pine timber
1.00 Creek 15 lks wide 1 ft deep course S.E.
Ascend S.E. slope 250 ft.
40.00 Point for cor falls on Granite boulder
in place. 36 x 36 x 12 ins above ground
marked with a (+) at the exact cor
point, and 1/4 on W. of (+). from which
A Pine 6 ins diam bears N 82° 30' E. 40 lks
dist marked 1/4 S 31 B.T.
A Pine 8 ins diam bears N 78° 00' W 50 lks
dist marked 1/4 S 36 B.T. ascend S.E.
slope 100 ft.
80.00 Set a Granite Stone 16 x 10 x 5 ins 11 ins in
the ground for cor of secs 25. 30. 31. and
36. marked with 1 notch on S. and
5 notches on N. edges. from which
A Pine 12 ins diam bears N 71° 30' E. 140 lks
dist marked T 5 N. R 1 W. S 30 B.T.
A Pine 14 ins diam bears S 88° 00' E. 247 lks
dist marked T 5 N. R 1 W. S 31 B.T.
A Pine 10 ins diam bears S 14° 00' W. 198 lks
dist marked T 5 N. R 2 W. S 36 B.T.
A Pine 8 ins diam bears N 16° 30' W. 119 lks
dist marked T 5 N. R 2 W. S 25 B.T.
Land Mountainous
Soil rocky 3rd rate
Timber Pine

Mountainous and heavily timbered land
80.00 chs

North bet secs 25 and 30.
Ascend S.E. slope 75 ft Through Pine timber.

18.00 Point of Ridge projects E. descend N.E. slope 100 ft

29.00 Ravine course E. ascend S slope 400 ft

36.00 Leave timber bears NW and S.E.

40.00 Set a Granite Stone 18 x 10 x 6 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, ascend rocky S slope 350 ft

50.00 Perpendicular cliff 150 ft high bears E and W.

80.00 Set a Granite Stone 18 x 14 x 5 ins 12 ins in the ground, for cor of secs 19. 24. 25 and 30. marked with two notches on S. and 4 notches on N. edges, and raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable Land Mountainous
Soil rocky 4th rate
Timber Pine
Mountainous or heavily timbered land
80.00 Chs

North bet secs 19 and 24
Ascend rocky S slope 375 ft

20.00 Spur projects E

35.20 Intersect the N. bdy of the Uintah Indian Reservation.
Set a Granite Stone 22 x 12 x 5 ins 18 ins in the ground, for the Closing cor of secs 19 and 24. marked C.C. U.I.R. 5 N. on S. 1 W. on E. U.F.R. on N. 2 W. on W. faces, with 2 grooves on S face. and raised a mound of Stone 2 ft base 1½ ft high S of cor

West boundary of T 5 N. R 1 W.

From the Closing cor. the 8 mile cor on the N. bdy of the Reservation, as established by Deputies A.H. and T.M. Brown bears, S 51° 45' W. 0.24 chs to mile post No 8. which is a Sand Stone 6. x 12 x 8 ins above ground, marked and witnessed as described by the Surveyor General.

Land Mountainous
Soil rocky 3 rate
No timber
Mountainous Land
35.20 chs

July 14th 1904

This line is over a rough and Mountainous country partly covered with Pine timber, and is of no value for agricultural purposes.

William Dallas
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 William Dallas, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the North bdy T 2 N R 2 W and W. bdy T 5 N R 1 W of the Uintah Special and Meridian Utah showing the respective capacities in which they acted:

Wilfred B Helme, Chainman.
Chester Fleming, Chainman.
Richard Hugh Camps, Moundman.
, Moundman.
Douglas King, Axman.
, Axman.
Thomas Sands Doty, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William Dallas, United States Deputy Surveyor, in surveying all those parts or portions of the N bdy of Tp. 2 N. R 2 W. and West bdy Tp 5 N. 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.

Wilfred B Helme, Chainman.
Chester Fleming, Chainman.
, Moundman.
Richard Hugh Camps, Moundman.
Douglas King, Axman.
, Axman.
T Sands Doty, Flagman.

Subscribed and sworn to before me this 29th day of June, 1904

SEAL

William Dallas
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William Dallas, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward M Anderson United States Surveyor General for Utah, bearing date of the 20th day of July, 1905, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The N. Bdy T 2 N. R 2 W and West Bdy T 5 N. R 1 W

of the Uintah Special Island 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.

William Dallas
United States Deputy Surveyor.

Subscribed by said William Dallas, and sworn to before me this 30 day of October, 1905

Edward M Anderson
U. S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 12, 1905.

The foregoing field notes of the survey of The West Boundary of Township 5 North Range 1 West of the Uintah Special Base & Meridian, Utah

executed by William Dallas under his contract No. 267, dated July 20, 1905, having been carefully examined, and the necessary corrections and explanations made, the said field notes, and the survey they describe, are hereby approved.

Edward M 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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G.

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

Uintah Special Meridian

Townships 4 & 5 North

between

Ranges 1 E & 1 W.

Of the Uintah Special Base & ~~Meridian,~~

State of Utah

AS SURVEYED BY

William Dallas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 20th 1903, ~~189~~

Survey commenced July 16th 1904, ~~189~~

Survey completed July 16th 1904, ~~189~~

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		Cly
5 North high	1-03-02	2.50
4 " "	72 42	9.80

BOOK A 305

NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Hebe	Chainman
Chester Fleming	Chainman
Milton Sturdivan	Chainman
Albert M. Chamberlain	Chainman
Richard Hugh Camps	Mountman
Douglas King	Axman
Thomas Sands Doty	Flagman

BOOK A-305

25 30

INDEX DIAGRAM.

Uintah Special Meridian through

36 31

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Wilfred B. Hebne, Chester Fleming and Milton Sturdivan, Albert M. Chamberlain do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Uintah Special Meridian through Tps 4 and 5 N. bet Rs 1E and 1W. of the Uintah Special Base, Utah.

Wilfred B. Hebne. Chester Fleming, Chainman.

Milton Sturdivan Albert M. Chamberlain, Chainman.

Subscribed and sworn to before me this 16th day of July 1904, ~~189~~

SEAL

William Dallas
U.S. Deputy Surveyor

I, Richard Hugh Camps and .....

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Uintah Special Meridian through Tps 4 and 5 N. Rs 1E and 1W. of the Uintah Special Base, Utah.

....., Moundman.

Richard Hugh Camps, Moundman.

Subscribed and sworn to before me this 16th day of July 1904, ~~189~~

SEAL

William Dallas
U.S. Deputy Surveyor

I, Douglas King and .....

do solemnly swear that ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of the Uintah Special Meridian through Tps 4 and 5 N. Rs 1E and 1W. of the Uintah Special Base, Utah.

Douglas King, Axman.

....., Axman.

Subscribed and sworn to before me this 16th day of July 1904, ~~189~~

SEAL

William Dallas
U.S. Deputy Surveyor

I, Thomas Sands Doty, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Uintah Special Meridian through Tps 4 and 5 N. Rs 1E and 1W. of the Uintah Special Base, Utah.

T. Sands Doty, Flagman.

Subscribed and sworn to before me this 16th day of July 1904, ~~189~~

SEAL

William Dallas
U.S. Deputy Surveyor

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Wintah Special Meridian through Tp 5 N

Survey Commenced July 16th 1904
For description of Instrument see Book "A"
At 10h 00m A.M. l.m.t. I set off 40°47'N
on lat arc 21°23'N on decl arc and
determine a meridian with the
Solar at the Std Cor of Tps. 4 and 5 N
Rs. 1 E and 1 W on the Wintah Special
Meridian as described in Book E
North on Wintah Special Meridian
Lt secs 31 and 36
Descend N slope 75 ft
8.00 Trail bears NW and SE.
9.30 Creek 15 lks wide 8 ins deep course W
Enter pine timber bears NE. and SW. Ascend
S slope 100 ft
18.00 Top of low ridge bears E and W descend
N slope 75 ft
34.00 Head of ravine course W ascend rocky
S slope 120 ft
36.00 Leave timber bears E and W
Difference between measurement of
40.00 Chs. by two sets of Chainmen is 6 lks
position of middle point
by 1st set 40.03 Ch
by 2nd set 39.97 chs mean of which is
40.00 The point for 1/4 sec cor fall on a rock in
place 3 x 2 x 1 x ft. above ground on
which I cut a cross (X) at the exact cor
point. Marked 1/4 on West of cross
raise a mound of stone 2 ft base 1½ ft
high W of cor. pits impracticable
Ascend S slope over slide rock 800 ft
Difference between measurements of 80.00 Chs
by two sets of Chainmen is 16 lks.
position of middle point
by 1st set 79.92 Chs
by 2nd set 80.08 Chs. mean of which is
80.00 Set a Granite Stone 14 x 10 x 5 ins 9 ins in the
ground for cor of secs 25, 30, 31 and 36
Marked with 1 notch on the S and 5 notches
on the N edges. raised a

mound of stone 2 ft base 1½ ft high W of cor. pits impracticable

July 16: At this cor at 12h.06m p.m. l m t I set off 21° 22' N on the Decl arc. and observe the Sun as it passes the meridian resulting lat is 40° 48'-N which is the correct Lat.

Land Mountainous
Soil rocky 3rd and 4th rate
timber pine
Mountainous or heavily timbered land 80.00 Chs

North bet. Secs 25 and 30
Ascend rocky S slope 50 ft

3.02 Intersect the N bdy of the Wintah Indian Reservation on top of dividing ridge Set a granite stone 16 x 14 x 8 ins 11 ins in the ground for the Closing Cor to Tps 5 N Ranges 1 E and 1 W Marked C.C. 5 N U.I.R on S 1 E on E 1 W on W and UFR on N faces with 1 groove on S face and raised a mound of stone 2 ft base 1½ ft high S of cor. pits impracticable From the Closing Cor. the ½ mile cor bet. the 1st and 2nd mile posts on the N bdy of the Reservation as established by Deputies A.H. and F.M. Brown bears. N 82° 15' W 2.50 Chs dist.
The ½ mile cor is a granite-stone 6 x 6 x 8 ins above ground marked and witnessed as described by the Surveyor General.
Land mountainous
Soil rocky 4th rate
No timber
Mountainous land 3.02 Chs

Uintah Special Meridian through Tp 4 N.

July 16th 1904. at 3h 30m P.M. l.m.T.
I set off 40°47' on the Lat arc.
21°21' N on the Decl arc and determine
a true Meridian with the Solar, at the
Standard Tp cor. of Tp 4 and 5 N. R1E.
and 1W. on the Uintah Special Meridian
Thence I run
South on Uintah Special Meridian
bet secs. 1 and 6.
Ascend rocky N.W. slope 500 ft
15.00 Point of Ridge bears W. descend
S.W. slope 300 ft.
33.00 Enter Pine timber bears NW and S.E.
Difference between measurements
of 40.00 chs. by two sets of chainmen
is 8 lks. position of middle point
by 1st set 40.04 chs
by 2nd set 39.96 chs mean of which is
40.00 Set a Granite Stone 20x6x6 ins 15 ins
in the ground, for 1/4 sec cor. marked
1/4 on W. face from which.
A Pine 12 ins diam bears N50°13'E. 30 lks
dist marked T4N. R.1E S6 B.T.
A Pine 8 ins diam bears S37°50'W. 24 lks
dist marked T4N. R1W. S1 B.T.
descend S.W. slope 150 ft
45.00 Leave timber bears E and W.
50.00 Head of Ravine course W, ascend N
slope over slide rock 800 ft
Difference between measurements of 72.42 chs.
two sets of chainmen is 12 lks
position of middle point.
by 1st set 72.48 chs
by 2nd set 72.36 chs mean of which is
72.42 Intersect the E. bdy of the Uintah Indian
Reservation.
Set a Granite Stone 16x10x6 ins 11 ins in
the ground, for Closing cor to Tps 4 N.
Ranges 1E. and 1W. marked 1 notch CC 4N
U.I.R. on N. U.F.R. on S. 1E. on E. and
1W. on W. faces. and raised a Mound

of stone 2 ft base 1½ ft high N of cor. from the Closing cor the ½ mile post bet the 58 and 59 mile post on E. bdy of the Reservation as established by Deputies A. H. and T. M. Brown. bears S 57°45' W 9.80 chs dist

The ½ mile cor is a sand Stone 6 x 8 x 10 ins above ground, marked and witnessed as described by the Surveyor General.

Land Mountainous
Soil rocky 3rd and 4th rate
Timber Pine

Mountainous or Heavily timbered land
72.42 chs

The Uintah Special Meridian in Tps 4 and 5 N. bet ranges 1E and 1W. is over a rough rocky country sloping W. and is of no value, for either timber or grazing.

This is all of the Meridian in Tps 4 N. bet Ranges 1E and 1W. as the East Boundary of the Reservation forms the E. bdy of the remaining portion of the Tp.

William Dallas
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 William Dallas, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Uintah Special Meridian through Tps 4 and 5 N. Rs 1 E and 1 W. of the Uintah Special Base, Utah, showing the respective capacities in which they acted:

Wilfred B. Helm, Chester Fleming, Chainman.
Milton Sturdivan, Albert M. Chamberlain, Chainman.
_____, Moundman.
Richard Hugh Camps, Moundman.
_____, Axman.
Douglas King, Axman.
Thomas Sands Doty, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William Dallas, United States Deputy Surveyor, in surveying all those parts or portions of the Uintah Special Meridian Through Tps 4 and 5 N. Ranges 1 E. and 1 W. 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

Wilfred B. Helm, Chester Fleming, Chainman.
Millois Sturdivan, Albert M Chamberlain, Chainman.
Richard Hugh Camps, Moundman.
_____, Moundman.
Douglas King, Axman.
_____, Axman.
T Sands Doty, Flagman.

Subscribed and sworn to before me this 16th day of July 1904, 189_

SEAL

William Dallas
U.S. Deputy Surveyor

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I, William Dallas, 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 20th day of July 1903, ~~190~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Uintah Special Meridian through Tps 4 and 5 N. Ranges 1E and 1W.

of the Uintah Special ~~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.

William Dallas
United States Deputy Surveyor.

Subscribed by said William Dallas, and sworn to before me this 31 day of October, 1904

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 12, 1904.

The foregoing field notes of the survey of the Uintah Special Meridian Township 4 & 5 North between Ranges East & West of the Uintah Special Base, Utah;

executed by William Dallas under his contract No. 267, dated July 20 1903, 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H Anderson
United States Surveyor General.

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

United States Surveyor General.

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4—679.

H.

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 5 North Range 1 West

Of the Utah Special Base and Meridian,

State of Utah

AS SURVEYED BY

William Dallas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 20, 1904

Survey commenced July 17, 1904

Survey completed " 22, 1904

6—151

Lough 19.78.98

Meander 1-20.30

Clay 1-20-97

POST 1-305

NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Helne	Chainman
Chester Fleming	Chainman
Richard Hugh Camp	Moundman
Douglas King	Axman
Thomas Sands Doty	Flagman

For preliminary affidavits see book B. F.Q.M.Q.W.

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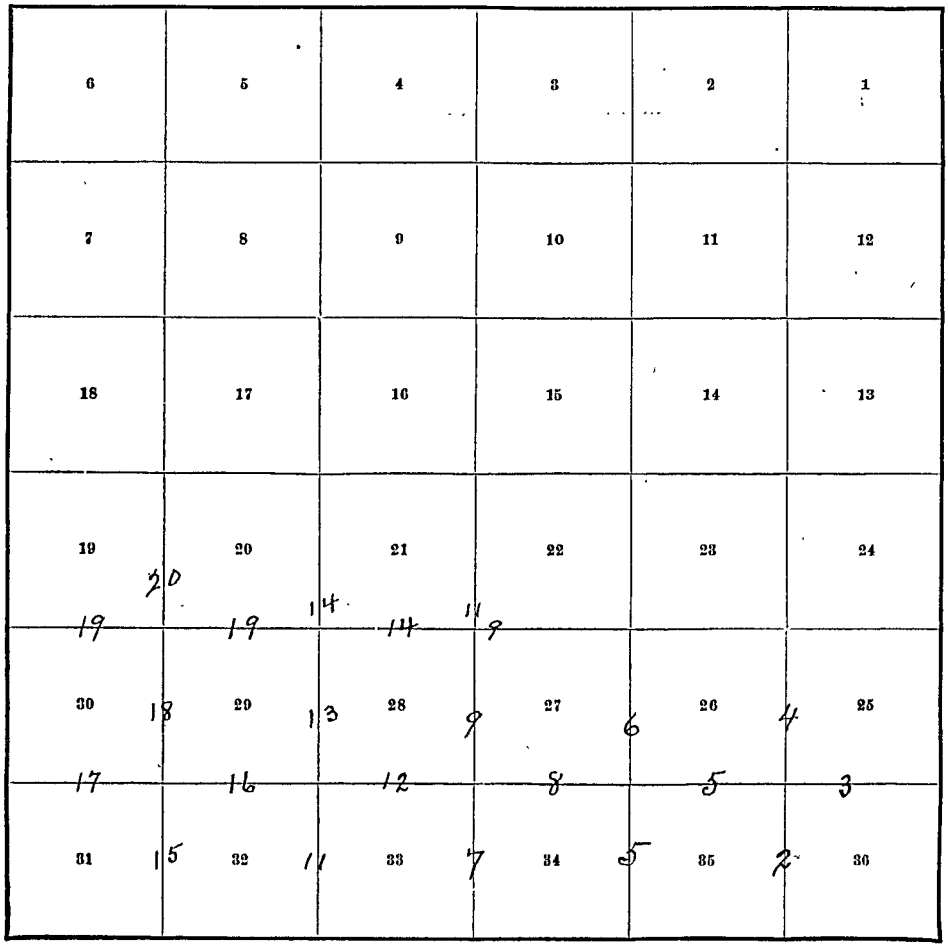
BOOK A-305

INDEX DIAGRAM.

Township 5 N, *Range* 1 W



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

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

SEAL

_____

_____

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

_____, *Moundman.*

_____, *Moundman.*

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

SEAL

_____

_____

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

_____, *Axman.*

_____, *Axman.*

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

SEAL

_____

_____

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

_____, *Flagman.*

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

SEAL

_____

_____

Subdivision of T. 5 N., R. 1 W.

Survey commenced July 17, 1904 and executed with a Ward & E. Gurley Solar Compass with telescope attachment: the horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc, which is also the least count of the Verniers of the Lat. and Decl. Arcs.

The instrument was examined and tested on the true Meridian at Salt Lake, and found correct, and was approved by the Surveyor General for Utah, May 6, 1904.

I examine the adjustments of the instrument and find them correct. Then, to test the Solar apparatus by comparing its indications, resulting from Solar observations made during A M and P M hours with a meridian determined by observation on Polaris I proceed as follows. At the Standard cor. to secs 35 and 36 as described in my notes on the First Standard Parallel in Lat. 40°47'+ Long 109°57' 53" W I set the 40°+7 N on the Lat. Arc 21°11' 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 the cor.

At 11h 4m P.M by my watch which is 6m 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 pin driven in the ground

T5N R1W

Subdivision of T 5 N R 1 W

Chs.	
	This cor. stands on top of ridge which bears NW + SE. descend NE slope 100 ft.
54.00	Creek 3 lks wide 5 ins deep course NW. Ascend SW. slope 800 ft.
62.00	Leave timber bears E and W
80.00	Set a granite stone 17 x 10 x 6 ins 12 ins in the ground for the cor of secs 25-26-35 and 36. marked with 1 notch on S and 1 notch on E edges and raise a mound of stone 2 ft base 1½ ft high W of cor pits impracticable Land mountainous Soil rocky 3rd and 4th rate. timber pine Mountainous or heavily timbered land 80.00 Chs.
	East on a random line bt secs. 25 and 36
40.00	Set temp ¼ sec cor.
80.00	Intersect E bdy of Tp at the cor of secs 25-30-31 and 36. as described in my notes of the Wintah Special Meridian Thence I run West on a true line bt secs 25 and 36 along S slope of divide over slide rock.
40.00	Point for ¼ sec cor falls on a rock in place. 3 x 1 ft x 18 ins above ground marked with a cross X at the exact cor point and ¼ on the N of cross. and raised a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
60.00	Top of ridge bears N and S descend SW. slope 200 ft.
80.00	The cor of secs 25-26-35 and 36 Land mountainous Soil rocky 4th rate No timber

Subdivision of T 5 N R 1 W

Chs.	Mountainous land 80.00 Chs

At the above cor at 12h 06m PM. l m t.
I set off 21°01'N on decl arc and
observe the sun as it passes the
meridian Resulting lat is 40°48 N
which is practically correct Lat.—
N 0° 1 W bet secs 25 and 26
Ascend SW Slope over Slide rock 700 ft
30.84 Intersect N bdy of the Wintah Indian
Reservation on top of dividing ridge
Set a granite-stone 20 x 10 x 5 ins 15 ins
in the ground for Closing Cor to secs
25 and 26. Marked C.C. U.I.R. with
2 grooves on S 1 groove on E and
UFR on N faces and raised
a mound of stone 2 ft. base 1½
ft high S of Cor pits impracticable
From the Closing Cor. the ½ mile cor
bet. the 2nd and 3rd mile posts on N
bdy of reservation as established by
Deputies AH and F.M. Brown bears
as follows. S 60°00'E 4.00 Chs. dist
the ½ mile cor is a sand Stone
8 x 10 x 5 ins above ground
marked and witnessed as
described by the Surveyor General
Land mountainous
Soil rocky 4th rate.
No timber
Mountainous land 30.84 Chs
July 18-1904

July 19th 1904 at 8h 00m am l m t
I set off 40°47'N on the lat arc. 20°53'N
on the decl arc and determine a
true meridian with the Solar at the
Standard Cor of secs 34 and 35.
described in my notes of the First
Standard Parallel North

Subdivision of T5N R1W

Chs. Thence I run
N 0° 2' W bet secs 34 and 35
Ascend SE slope 250 ft through pine timber
25.00 Thence S slope
40.00 Set a granite stone 14x12x10 ins 10 ins in the ground for 1/4 cor marked 1/4 on W face, from which
A pine 16 ins diam bears N 58° 00' W 10 lks dist marked 1/4 S 34 BT
A Pine 14 ins diam. bears S 38° 00' E 21 lks dist marked 1/4 S 35 B.T.
Ascend S slope 250 ft.
80.00 Set a Granite stone 18x10x5 ins 12 ins in the ground for cor of secs 26, 27, 34 and 35. Marked with notch on S and 2 notches on E edges, from which
A pine 5 ins diam. bears N 5° 00' E, 94 lks dist marked T5N R1W S 26 BT
A Pine 24 ins diam bears S 63° 15' E 53 lks dist marked T5N R1W S 35 BT
A Pine 16 ins diam bears S 8° W 42 lks dist marked T5N R1W S 34 BT
A Pine 14 ins diam bears N 37° 30' W 49 lks dist marked T5N R1W S 27 B.T.

Land Mountainous
Soil rocky 3d rate
Timber Pine

Mountainous and heavily timbered land 80.00 chs

East on a random line bet secs 26 and 35
40.00 Set temp 1/4 sec cor.
80.30 Intersect N and S line 23 lks N of the cor of secs 26, 25, 35 and 36
Thence I run
N 89° 50' W on a true line bet secs 26 and 35.
Descend rocky SW slope 800 ft to 1/4 cor
19.00 Enter timber bears E and W

Subdivision of T5N R1W

Chs.	
40.15	Set a Granite stone 19X12X6 ins 15 ins in the ground for 1/4 sec cor marked 1/4 on N face from which A Pine 14 ins diam bears N58°00'W 74 lks dist marked 1/4 S26 BT A Pine 14 ins diam bears S 3°00'W 113 lks dist marked 1/4 S35 BT Descend SW slope 80 ft.
48.00	Ravine course SE, Ascend NE slope 200 ft.
60.00	Ridge bears NW and SE descend SW slope 200 ft
77.00	Creek 3 lks wide 5 ins deep course SE
80.30	Cor of secs 26, 27, 34 and 35 Land mountainous Soil rocky 3d rate. Timber pine Mountainous or heavily timbered land 80.30 chs
	July 19th 1904 At this cor at 12h 06m A.M. l m 1 I set off 20°50'+ N on Decl arc and observe the sun on the Meridian, resulting Lat being 40°48' N which is practically correct
	N 0° 2' W bet secs 26 and 27 Ascend SW slope 75 ft through pine timber
5.00	Leave timber bears E and W
15.00	Ascend abruptly S slope 500 ft
40.00	Set Granite stone 18X10X7 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 1 1/2 ft high W of cor Pits impracticable Ascend steep S slope 600 ft.
67.00	Thence along gradual S slope
7690	Top of divide. Intersect N bdy of the Uintah Indian Reservation

Subdivision of T5N R1W

Chs. Set a Granite stone 15 X 8 X 5 ins 10 ins in the ground fo the closing cor to secs 26 and 27. marked C.C., W.I.R. with 2 grooves on S, 2 grooves on E and W.F.R. on N faces and raised a mound of stone 1½ ft high and 2 ft base S of cor. Pits impracticable. From the closing cor the ½ mile cor bet. the 3d and 4th mile post on N bdy of the reservation as established by deputies A.H. and F.M. Brown bears as follows S 60°00'E 16.70 chs. to the 3½ mile post which is a ~~sand~~ stone 8 X 10 X 6 ins above ground marked and witnessed as described by the Surveyor General.

Land mountainous
Soil rocky 3d rate.
Timber pine.

Mountainous or heavily timbered land
76.90 chs

From the standard cor. of secs 33 and 34 on S. bdy of Tp. hereto fore described Jrnry

N 0° 2' W bet secs 33 and 34
Ascend rocky S slope through pine timber 8.00 ft.
21.00 Leave timber bears NE and SW
37.00 Point of ridge bears SE descend rocky NE slope 100 ft
40.00 Set a Granite stone 6 X 8 X 4 ins 11 ins in the ground for ¼ sec cor. marked 1/4 on W face and raised a mound of stone 2 ft base 1½ ft high W of cor Pits impracticable.
Descend rocky NE slope 200 ft.
48.00 Enter Pine timber bears NW and SE
70.00 Head of Ravine course E
76.00 Leave timber bears NE and SW
Ascend SE slope 250 ft.
80.00 Set a Granite stone 17 X 10 X 5 ins 12 ins in the ground for cor of secs 27, 28, 33 and 34. Marked 1 notch on S and

Subdivision of T5N R1W

Chs. 3 notches on E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.

Land Mountainous
Soil Rocky 3d rate
Timber Pine

Mountainous or heavily timbered land
80.00 chs

July 19th 1904

July 20th 1904 at 9h 00m A.M. lin. b. I set off 40°48' N on lat arc, 20°41' N on Decl arc, and determine a true Meridian with the solar at the cor of secs 27, 28, 33 and 34

Thence I run

East on a random line bet secs 27 and 34.

40.00 Set temp ¼ sec cor

80.04 Intersect N and S line at the cor of secs 26, 27, 34 and 35. thence I run West on a true line bet secs 27 and 34

Along rocky S slope through pine timber.

40.02 Set a Granite stone 17 x 12 x 6 ins 12 ins in the ground for ¼ sec cor Marked ¼ on N face, from which

A Pine 14 ins diam bears N 1°00' W 69 lks dist. marked ¼ S 27 BT

A Pine 10 ins diam bears S 15°30' W 36 lks dist. marked ¼ S 34 BT

53.50 Creek 5 lks wide 8 ins deep course S

Ascend S E slope 250 ft

[illegible] Leave pine timber bears N and S, thence steep ascent S E slope

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

Land mountainous
Soil rocky 3d rate
Timber pine

Mountainous or heavily timbered land
80.04 chs

Subdivision of T5N R1W

Chs.	
	N 0° 2' W bet secs 27 and 28 Ascend S E slope 450 ft.
24.00	Ridge bears S W and N E thence along W slope
40.00	Point for 1/4 sec cor falls on a boulder in place 4 x 3 ft x 8 ins above ground I cut a + at the exact cor point and 1/4 on W face of same, and raised a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable) Ascend S W slope 150 ft.
80.00	Set a Granite stone 21 x 11 x 4 ins 15 ins in the ground for cor of secs 21, 22, 27 and 28. marked with two notches on S and three notches on E edges and raised a mound of stone 2 ft base 1½ ft high W of cor. Land mountainous Soil rocky 3d rate No timber Mountainous land 80.00 chs
	July 20 1904. At cor secs 21, 22, 27 and 28. at 12h 06m P.M. l.m.t. I set off 20° 39' N on the Decl arc and observe the Sun as it passes the Meridian. resulting Latitude being 40° 49' + which is practicaly correct Lat.
	East on a true line bet secs 22 and 27 Ascend S W slope over slide rock 250 ft.
11.51	Intersect N bdy of the Uintah Indian Reservation. top of divide. Set a Granite stone 18 x 12 x 5 ins 12 ins in the ground for closing cor to secs 22 and 27 marked C.C., U.I.R. on W U.F.R. on E with two grooves on S faces. and raised a mound of stone

Subdivision of T5N R1W

Chs. 2 ft base 1½ ft high W of cor.
Pits impracticable. From the closing
cor the ½ mile cor bet the 4th and 5th mile
cors. on the N bdy of Reservation as
established by Deputies 9th and
F M Brown bears as follows. S74°45'E
10.26 chs to ½ mile cor which is a
sand stone 8 x 10 x 8 ins above
ground marked and witnessed
as described by the Surveyor Gnral
Thence along top of Divide on blank
line

30.66 Intersect N bdy of the Uintah Indian
Reservation. Top of divide.
Set a Granite stone 20 x 10 x 3 ins
in the ground for the closing cor
to secs 22 and 27. marked C.C., U.I.R.
on E, U.F.R on W with two grooves
on S face, and raised a mound of
stone 2 ft base 1½ ft high E of cor.
Pits impracticable from the closing
cor the ½ mile cor on N bdy as
described above bears S73°45' W 9.61 chs
to ½ mile cor Thence over S slope of
divide over slide rock

75.00 Set a Granite stone 22 x 8 x 5 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
Over S slope

74.75 Top of Divide
Intersect N bdy Uintah Indian
Reservation Set a granite stone 20 x 10 x 4
ins, 13 ins in the ground for the
closing cor to secs 22 and 27. marked
C.C., U.I.R. on W., U.F.R. on E; with 2
grooves on S face and raised
a mound of stone 2 ft base 1½ ft
high W of cor. Pits impracticable
From the closing cor the 4th

Subdivision of T5N R1W

Chs. mile cor on Nbdy as established by Deputies A H and F M Brown bears as follows. N60°00'W 17.10 chs to mile post No 4 which is a Granite stone 8x8x8 ins above ground marked and witnessed as described by the Surveyor General.

Land mountainous
Soil rocky 4th rate
No timber

Over blank line 19.15 chs
Mountainous land
55.60 chs

N0°2'W bet secs 21 and 22
Ascend SW slope over slide rock 30 ft.

3.14 Intersect Nbdy of the Uintah Indian Reservation. top of divide Set Granite stone 17x10x6 ins 12 ins in the ground for closing cor to secs 21 and 22. marked C.C., U.I.R. with two grooves on S, 3 grooves on E and U.F.R. on N faces and raised a mound of stone 2 ft base 1½ ft high S of cor. From the closing cor the 5 mile cor on the bdy as established by Deputies A H and F M Brown bears as follows N74°45'W 17.80 ch to mile post No 5

Land mountainous
Soil rock 4th rate
No timber.

Mountainous land
3.14 chs

From the standard cor. of secs 32 and 33 on S. bdy of Tp. heretofore described from

N0°3'W bet secs 32 and 33
Descend NE slope 75 ft.

14.50 Creek 25 lks wide 1 ft deep course SE
19.60 Creek 25 lks wide 1 ft deep course SE

Subdivision of T5N R1W

Chs.

Ascend S W slope 100 ft.

29.00 Enter Pine timber bears N W and S E

40.00 Set a Granite stone 16 x 11 x 6 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on W face. from which
A Pine 8 ins diam bears N 45° 15' E 27 lks dist: marked 1/4 S 33 B T
A Pine 10 ins diam bears N 89° 00' W 126 lks dist: marked 1/4 S 32 B T
ascend S W slope 60 ft.

43.00 Ridge bears E and W. descend N W slope 75 ft;

52.00 Creek 5 lks wide 8 ins deep course S W
Ascend S E slope 200 ft.

80.00 On Ridge bears N and S:
Set a Granite stone 16 x 12 x 6 ins 11 ins in the ground for cor of secs 28, 29, 32 and 33 marked with 1 notch on S and 4 notchs on E edges from which
A Pine 6 ins diam bears N 65° 00 E 18 lks dist - marked T 5 N R 1 W S 28 B T
A Pine 14 ins diam bears S 18° 45' E 5 1/4 lks dist; marked T 5 N R 1 W S 33 B T
A Pine 14 ins diam bears S 49° 30' W 27 lks dist, marked T 5 N R 1 W S 32 B T
A Pine 8 ins diam bears N 60° 30' W 27 lks dist: marked T 5 N R 1 W S 29 B T

Land mountainous
Soil rocky 3 Grade
Timber Pine

Mountainous or heavily timbered land 80.00 Chs.

East on a random line bet secs 28 and 33

41.00 Set - temp 1/4 sec cor

80.10 intersect - N and S line at the cor of secs 28, 27 34 and 33

Thence S 1/2 m
West on true line bet secs 28 and 33
Ascend S E slope 250 ft.

17.00 Ridge bears N E and S descend W slope 260 ft.

Subdivision of T5N R1W

Chs.	
32.00	Enter timber bears N and S.
40.03	Set a Granite stone 20x12x4 ins 15 ins in the ground for 1/4 sec cor. marked 1/4 on N face, from which A Pine 14 ins diam bears S 64° 15' E 19 lks dist: marked 1/4 S 33 B.T. A Pine 14 ins diam bears N 72° 00' W 20 lks dist: marked 1/4 S 28 BT descend rocky Walyke 500 ft.
65.00	Creek 15 lks wide 10 ins deep course SW Ascend E slope 70 ft through pine timber.
80.10	The cor of secs 28, 29, 32 and 33. Land mountainous Soil rocky 3d rate Timber pine Mountainous or heavily timbered land 80.10 chs. July 20th 1904

July 21 1904 At 8h 00m AM, Lmt Lat-N 40° 48' on Est arc 20° 30' Non Dec and find determin a true meridian with the solar at the cor of secs 28, 29, 32 and 33. thence Run N 0° 3' W bet secs 28 and 29 Ascend S slope 150 ft through Pine timber

40.00	Set a Granite stone 16x10x4 ins 11 ins in the ground for 1/4 sec cor, marked 1/4 on W face from which A Pine 8 ins diam bears N 50° 30' E 18 lks dist marked 1/4 S 28 BT A Pine 14 ins diam bears N 59° 15' W 66 lks dist marked 1/4 S 29 BT. ascend gradual S slope
58.00	Thence steep S W slope 500 ft.
62.00	Leave timber bears E and W.
80.00	Set a Granite stone 16x10x6 ins 11 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, and raised a mound of stone 2 ft. base 1½ ft. high

Subdivision of T5N R1W

chs.	
	W of cor.
	Land Mountainous
	Soil rocky 3d rate
	Timber Pine
	Mountainous or heavily timbered land 80.00 chs.
	East on a random line bet secs 21 and 28
40.00	Set temp 1/4 sec cor
80.30	Intersect N and S line 4 lks N of the cor of secs 21, 22, 28 and 27
	Thence I run
	N 89° 58' W on a true line bet secs 21 and 28
	Descend SW slope 75 ft
12.00	Head of ravine course SW, ascend SE slope 260 ft
40.15	Set a Granite stone 20 x 8 x 6 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 1 1/2 ft high N of cor.
43.00	Point of Ridge bears SW descend SW slope 550 ft.
80.30	The cor of secs 20, 21, 28 and 29
	Land Mountainous
	Soil rocky 4th rate
	No timber
	Mountainous land
	80.30 chs
	N 0° 3' W bet secs 20 and 21
	Ascend SW slope 700 ft
24.80	Top of Divide. Intersect N bdy of the Uintah Indian Reservation
	Set a Granite stone 20 x 12 x 3 ins 16 ins in the ground for the closing cor to secs 20 and 21. marked C, C, W. T. R. with 2 grooves on S 4 grooves on E and W F R on N faces, and raised a mound of stone 2 ft base 1 1/2 ft high S. of cor
	From the closing cor the 6 mile cor on the N bdy as established by

Chs. depulies AH and F.M. Brown bears as follows N 74°45' W 14.40 chs to mile post No 6. which is a stone 9 x 9 x 9 ins above ground marked and witnessed as described by the Surveyor General

Land mountainous
Soil rocky 3rd rate
No timber

Mountainous land
24.80 chs

July 21st At 12h 00m. M the sky is overcast making it impossible to take Latitude observation.

July 21st 1904. At 2h 00m P.M. l.m.t. I set off 40°47'4 on the Lat arc 20°27' N on Decl arc and determine a meridian with the Solar at the Standard cor of secs 31 and 32 as described in my notes on the Standard.

Thence Irun
N 0°4' W bet secs 31 and 32.
Descend NE slope 75 ft. through fine timber.

2.50 Ravine course SE ascend SW slope 75 ft
40.00 Set a granite stone 16 x 8 x 7 ins 11 ins in the ground for ¼ sec cor, marked ¼ on W face from which
A Pine 6 ins diam bears S 81°30' E
25 lks dist marked ¼ S 32 BT
A Pine 10 ins diam bears S 26°45' W 9 lks dist marked ¼ S 31 BT
Ascend SE slope 50 ft.
50.00 Top of Ridge bears E and W. descend N slope 50 ft.
60.00 Bottom of hollow drains E.
80.00 Set a Granite stone 15 x 8 x 4 ins 10 ins in the ground for cor secs 29, 30, 31 and 32. marked with 5 notches on E and 1 notch on S edge from which
A Pine 6 ins diam bears N 49°30' E

Subdivision of T5N R1W

Chs.	80 lks dist marked T5N, R1W, S29, BT A Pine 6 ins diam bears S72°00'E 16 lks dist marked T5N, R1W, S32, BT. A Pine 14 ins diam bears S28°00'W 92 lks dist marked T5N R1W S31 BT A Pine 14 ins diam bears N47°30'W 59 lks dist marked T5N R1W S30 BT Land Mountainous Soil rocky 3d rate Timber Pine Mountainous and heavily timbered land 80.00 chs
	East on a random line bet secs 29 and 32
40.00	Set temp 1/4 sec cor
40.17	To W bank of lake. Set temp Meander Cor To determine dist across I set a flag on line on E bank of the lake then measure a base S 10 chs to a point where the flag bears N62°38'E. which gives for the dist tan 62°38' X base or gives 1.932 chs X 10 = 19.32 chs 19.32 + 40.17 makes
59.49	To E bank of lake. set temp meander cor.
80.00	Intersect N and S line at the cor of secs 28, 29, 32 and 33. Thence I run West on a true line bet secs 29 and 32 Over Rolling land through pine timber.
16.00	Leave timber bears N and S
20.51	To E bank of lake Set a Granite stone 17 x 11 x 6 ins 11 ins in the ground for meander cor of fracl secs 29 and 32 marked MC on W face 1 grown on S face and raise a mound of stone 2 ft base 1½ ft high E of cor. Pits impracticable.
39.83	To W bank of lake Set a Granite stone 19 x 11 x 7 ins 15 ins in the ground for meander cor to fracl. secs 29 and 32. marked MC on E

chs.	face with 1 groove on S face and raised a mound of stone 2 ft base 1½ ft high W of cor from which A Pine 10 ins diam bears South 2.10 chs dist marked T5N R1W S32 MC BT Pits impracticable
40.00	Set a granite stone 16 x 12 x 4 ins 11 ins in the ground for ¼ sec cor marked ¼ on N face from which A Pine 20 in in diam bears S 77°00'W 93 lks dist marked ¼ S 32 BT A Pine 20 in in diam bears N 75°00'W 169 lks dist marked ¼ S 29 BT Ascend E slope through pine timber 300 ft.
80.00	The cor of secs 29, 30, 31 and 32 Land Mountainous Soil rocky 3d rate Timber pine Mountainous or heavily timbered land 80.00 chs July 21 1904
	July 22 1904 At 8h 30m A M l.m.t. I set off 40°48'+ on Lat arc, 20°18' N on Decl arc and determine a true meridian at cor of secs 29, 30, 31 and 32. Thence I run West on a random line bet secs 30 and 31.
40.00	Set temp ¼ sec cor
80.02	Intersect the W bdy of the Tp 11 lks S of cor of secs 25, 30, 31 and 36 heretofore described. Thence I run S 89°55'E on a true line bet secs 30 and 31. descend NE slope 50 ft through Pine timber.
6.00	Creek 3 lks wide 8 ins deep course SE. ascend SW slope 50 ft
14.00	Ridge bears NW and SE descend NE slope 150 ft.

Chs

40.02	Set a Granite stone 18x10x8 ins 12 ins in the ground, marked 1/4 on N face from which A pine 12 ins diam bears N39°30'E 44 lks dist: marked 1/4 S 30 BT A pine 14 ins diam bears S18°00'E 9 lks dist marked 1/4 S 31 BT Commences hollow Ascend W slope 100 ft
56.00	Ridge bears N and S descend E slope 150 ft;
80.02	The cor of secs 29, 30, 31 and 32 Land mountainous Soil rocky 3d rate Timber Pine Mountainous and heavily timbered land 80.02 Chs

	N 0°4' W bet secs 29 and 30 Along E slope through pine timber
10.00	Creek 4 lks wide 10 ins deep course E bears birches bears E and W. ascend rocky S slope 250 ft.
20.90	Base of perpendicular cliff 800 ft high bears E and W
30.00	Top of ridge bears E and W descend gradual N slope 50 ft
40.00	Set a Granite stone 18x18x6 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 Descend rough rocky NE slope 1000 ft.
74.00	Head of ravine course NW, ascend S slope 200 ft;
80.00	Set a Granite stone 16x12x5 ins 11 ins in the ground for cor of secs 19, 20 29 and 30, marked with 2 notches on S and 5 notches on E edges, and raised a mound of stone 2 ft base 1½ ft high W of cor Pits impracticable

Chs.	
	Land Mountainous Soil rocky 4th rate Timber Pine Mountainous or heavily timbered land 80.00 chs
	East on a random line bet secs 20 and 29.
40.00	Set temp ¼ sec cor
80.18	Intersect N and S line 5 lks S of cor of secs 20, 21, 28 and 29
	Thence I run
	S 89°58' W on a true line bet secs 20
1	and 29, descend SW slope 75 ft.
5.00	Brow of bench bears N and S
10.00	Ravine course SE ascend NE slope 200 ft Enter timber bears NW and SE
35.50	Ridge bears SE and NW descend SW slope 50 ft
36.00	Leave Pine timber bears N and S
40.09	Set a Granite stone 16 x 11 x 7 ins 11 ins in the ground for ¼ sec cor. marked ¼ on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. Pits impracticable.
40.75	Ravine course SE ascend NE slope 150 ft
70.00	Ridge bears NW and SE descend SW slope 75 ft
80.18	The cor of secs 19, 20, 29 and 30
	Land mountainous Soil rocky 3d rate Timber Pine Mountainous or heavily timbered land 80.18 chs
	July 22 1904 At the above cor at 12h 06m pm Amt. I set off 20°15' N on Decl arc and observe the Sun on the Meridian the resulting Latitude being 40°49'+ which is practically the correct Latitude

Chs.	
	N 89° 55' W on a random line between secs 19 and 30
40.00	Set stone 1/4 sec cor
80.20	Intersect the W bdy of Tp at the cor of secs 19, 24, 25 and 30 herein to be described. Thence I run S 89° 55' E on a true line between secs 19 and 30
	Ascend rocky S W slope 55 ft
4.00	Point of SE slope descend SE slope 25 ft.
30.00	Ridge bears SE and NW descend NE slope 200 ft
40.20	Set a Granite stone 22 x 8 x 6 ins 18 ins in the ground for 1/4 sec cor, marked 1/4 on N face and raised a mound of stone 2 ft base 1½ ft high N of cor. Pits impracticable
	A lake about 10 acres in extent bears North 15 chs.
	Descend N E slope 400 ft.
75.00	Head of ravine course N W. ascend S W slope 175 ft.
80.20	The cor of secs 19, 20, 29 and 30
	Land mountainous
	Soil rocky & stony
	No timber
	Mountainous land
	80.20 chs

	N 0° 4' W between secs 19 and 20
	Ascend rocky S W slope 450 ft.
40.00	Set a Granite stone 20 x 10 x 4 ins 15 ins in the ground for 1/4 sec cor, marked 1/4 on W face and raised a Mound of stone 2 ft. base, 1½ ft. high W of cor. Pits impracticable
	Ascend S slope over slide rock 60 ft.
76.56	Intersect the W bdy of the Uintah Indian Reservation on top of divide
	Set a granite stone 17 x 12 x 6 ins 12 ins in the ground for the closing cor to secs 19 and 20. marked C.C., W I R with

Chs. 3 grooves on S and 5 grooves on E and U F R on N faces and raised a mound of stone 2 ft base 1½ ft high S of cor From the closing cor the 7 mile cor on the N bdy as established by Deputies A H and F M Brown bears as follows N 74° 45' W 11.10 chs to mile post No 7 which is a stone 10 x 8 x 10 ins above ground marked and witnessed as described by the Surveyor General

Land mountainous
Soil rocky 4th rate
No Timber

Mountainous land
46.56 Chs

This township (General Description) is mountainous in character the North boundry of which forms the N bdy of the Uintah Indian Reservation. There being practically no soil the greater part of the N half of Tp is slide rock.

There are no settlers and no indications of mineral. The southern portion of Tp is mostly covered with a heavy growth of pine timber. The head waters of White Rock creek furnish an abundant water supply.

William Dallas
U.S. Deputy Surveyor

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Meanders of Lake T 5 N. R 1 W.

I commence at the Meander cor. of fractional secs 29 and 32. on E. side of Lake. set by me and heretofore described.

July 23rd 1904. I set off 40° 48' + on the Lat Arc. 20° 06' N. on Decl Arc. and at 8h 00m A.M. l. m. t. determine a Meridian with the Solar.

Thence I run with Meanders in Sec 29. Over mountainous land through brush.

N 52° 45' W. 23.20 chs, At 5.0 chs Creek 30 chs wide, course S.W. thence over slide rock

S 30° 00' W. 8.00 chs. At 5.00 chs Creek 10 chs wide enter Tim timber bear N.E. & S.W.

S 23° 15' E. 7.80 chs To Meander cor. of fractional secs. 29 and 32. on W side of Lake

Land mountainous
Soil rocky 3rd rate
Timber pine
Mountainous Land 39.00 chs.

Thence in sec 32.

Over swampy land through Tim timber

S 23° 15' E. 25.80 chs. At 6.40 chs leave timber bear SW

S 42° 30' E. 4.80 chs.

N 34° 15' E. 10.50 chs.

N 17° 00' W. 12.50 chs. At 1.20 chs outlet of Lake 30 lks wide.

N 29° 30' E. 7.70 chs To Meander cor. and place of beginning.

Land mountainous
Soil rocky 3rd rate
Timber pine
Mountainous Land 61.30 chs.

This Lake is a body of deep water not drainable or likely to dry up more than 25 Acres in extent and situated in secs 29 and 32. it is the headwaters of the middle fork of White Rock Creek.

Boundaries of T 5 N. R 1 W.

Latitudes, Departures, and Closing errors

Line designated	True bearing	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
W. bdy T. 5 N. R. 1 W.	North	195.20	195.20			
N. bdy of the	N 51° 45' E	39.76	24.61		31.22	
Uintah Indian	S 74° 45' E	240.00		63.13	231.55	
Reservation.	N 73° 45' E	40.00	11.19		38.40	
	S 60° 00' E	160.00		80.00	138.56	
	S 82° 15' E	42.50		5.73	42.11	
E bdy T. 5 N. R. 1 W.	South	83.02		83.02		
1st Std. Parallel N.	West	480.00				480.00
Convergency						.21
			231.00	231.88	481.84	480.21
				231.00	480.21	
Error in Lat.				.88		
Error in Deps.					1.63	

William Dallas
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 William Dallas, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Tps 2 and 3 N. Rs 2 W. and Tps 4 and 5 N. Rs 1 W. of the Uintah Special Meridian Utah showing the respective capacities in which they acted:

Wilfred B. Helme, Chainman.
Chester Fleming, Chainman.
Richard Hugh Camps, Moundman.
, Moundman.
Douglas King, Axman.
, Axman.
Thomas Sands Doty, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William Dallas, United States Deputy Surveyor, in surveying al those parts or portions of the Subdivisions of Townships 2 and 3 N. Range 2 West and Townships 4 and 5 North Ranges 1 West 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

Wilfred B. Helme, Chainman.
Chester Fleming, Chainman.
, Moundman.
Richard Hugh Camps, Moundman.
Douglas King, Axman.
, Axman.
T. Sands Doty, Flagman.

Subscribed and sworn to before me this 12th day of August 1904, 189

SEAL

William Dallas
U. S. Deputy Sur.

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William Dallas, 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 20th 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 the Subdivisions of Townships 2 and 3 N. Rs 2 W. and Townships 4 and 5 North Range 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.

in books B C D & H

William Dallas
United States Deputy Surveyor.

Subscribed by said William Dallas, and sworn to before me this 1st day of October, 1904

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 12, 1904.

The foregoing field notes of the survey of the subdivisions of Township 5 North Range 1 West of the Uintah Special Base and Meridian, Utah

executed by William Dallas under his contract No. 267, 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.

6—151

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I

BOOK A-305

FIELD NOTES

W.H.

OF THE SURVEY OF THE

Subdivisions

of

Township 4 North Range 1 East

Of the Uintah Special Base & Meridian,

State of Utah

AS SURVEYED BY

William Dallas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 20, 1903

Survey commenced July 24, 1904

Survey completed July 24, 1904

6—151

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BOOK A-305

NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Helms	Chainman
Chester Fleming	Chainman
Richard Hugh Camp	Woundsman
Douglas King	Axman
Thomas Sands Doty	Flagman

BOOK A-305

INDEX DIAGRAM.

Township 4 N, *Range* 1 E

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Wilfred B. Helms and Chester Flemming do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivisions of Tps 4 and 5 N. Rg 1 E. of the Uintah Special Base and Meridian Utah.

Wilfred B. Helms, Chainman.
Chester Flemming, Chainman.

Subscribed and sworn to before me this 22nd day of July 1904, ~~189~~

William Dallas
U.S. Deputy Surveyor

SEAL

I, Richard Hugh Camp and

do solemnly swear that ~~we~~ will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~, to the best of ~~our~~ skill and ability, in the survey of the Subdivisions of Tps 4 and 5 N. Rg 1 E. of the Uintah Special Base and Meridian Utah.

, Moundman.
Richard Hugh Camp, Moundman.

Subscribed and sworn to before me this 22nd day of July 1904, ~~189~~

William Dallas
U.S. Deputy Surveyor

SEAL

I, Douglas King and

do solemnly swear that ~~we~~ will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~me~~, to the best of ~~our~~ skill and ability, in the survey of the Subdivisions of Tps 4 and 5 N. Rg 1 E. of the Uintah Special Base and Meridian Utah.

Douglas King, Axman.
, Axman.

Subscribed and sworn to before me this 22nd day of July 1904, ~~189~~

William Dallas
U.S. Deputy Surveyor

SEAL

I, Thomas Sands Doty, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivisions of Tps 4 and 5 N. Rg 1 E. of the Uintah Special Base and Meridian Utah.

Thomas Sands Doty, Flagman.

Subscribed and sworn to before me this 22nd day of July 1904, ~~189~~

William Dallas
U.S. Deputy Surveyor

SEAL

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Subdivision of T 4 N. R 1 E.

Survey commenced July 23rd 1904.
and executed with a W. and L. E. Gurley Solar Compass, with telescope attachment the horizontal limb is provided with two double verniers placed opposite to each other and reading to single minutes of arc. which is also the least count of the verniers of the Latitude and Declination arcs.
The instrument was examined tested on the true Meridian at Salt Lake found correct and was approved by the Surveyor General for Utah May 6th 1904.
I examined the adjustments of the instrument, and found them correct, then to test the Solar apparatus by comparing its indications, resulting from Solar observations made during A.M. and P.M. hours with a Meridian determined by observation on Polaris, I proceed as follows.
At the Standard cor to secs 31 and 32 T. 5 N. R. 1 E., as described in my notes on the First Standard Parallel in Lat 40°47'12" N. Long 109°55'36" W I set off 40°47' + on Lat Arc. 20°02' on Decl arc. and at 4h 6m 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 11h 20m P.M., by my watch which is 3m 5s a 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

Subdivision of T4NR1E

July 24 at 8h a.m. l.m.t. I lay off the azimuth of Polaris 1°34' to the W and mark the meridian thus determined by cutting a small groove in the stone set July 23rd on which the meridian falls 0.5 ins east of the mark determined by the solar At 8h 30m a.m. l.m.t. I set off 40°47'N on lat. arc 19°54'N on decl arc and mark a point in the meridian determined with the solar by a cross on the stone already set 5 chs N of my station, this mark falls 0.2 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°27" west and 0°10" E 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 8h 30m a.m. is 16°32'W. the angle thus determined gives the magnetic decl. 16°32'E
From the Std cor of secs 31 and 32 T5NR1E heretofore described. I run S 0°01'W Bet secs 5 and 6. over slide rock on ridge
1.95. Set a granite stone 18x12x8 ins. 12 ins in the ground. for Closing cor secs 5 and 6 Marked C C U I R on N, 1 groove on N. and UFR on S faces. raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable. From Closing Cor the 60th mile cor on bdy as established by Deputies A.H. and F.M. Brown bears N 32° E 1.09 lks dist.
Land mountainous
Soil Stony 4th rate.

Subdivision of T4NR1E

no timber
mountainous land 1.95 Chs July 24.1904

Latitudes, Departures, and closing errors.

Lines designated	True bearing	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W.
First Std Parallel N	East	81.23			81.23	
East bdy of the Uintah Indian Reservation	S 32° W	41.23		34.96		21.85
	S 57°45' W	70.20		37.46		59.37
Uintah Special Meridian	North	72.42	72.42			
			72.42	72.42	81.23	81.22
			72.42		81.22	
Error in Lat			.00			
Error in Dep					.01	

General Description.

This Tp. is Mountainous in character and lies upon the summit of the Uintah Mountains the soil being very rocky.

There being no settlers, and no indications of Minerals. No timber except along the W bdy.

William Dallas
U.S. Deputy Surveyor

There being no notary public or other officer authorized to administer oaths within reasonable distance of the beginning and ending of these surveys therefor in order to save time and expense I administer the preliminary and final oaths myself.

William Dallas
U S Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____ _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ _____ showing the respective capacities in which they acted:

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

For final affidavits see book J. Fp. 5 N R 1 E, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

For final affidavits see book J. Fp. 5 N R 1 E, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

_____

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

SEAL

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ... United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ....., bearing date of the ..... day of ....., 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ....., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final affidavits see book J. F. S. N. R. 1 E. ..... of the ..... meridian, in the ..... of ....., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

.....
United States Deputy Surveyor.

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

.....

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, November 12, 1904

The foregoing field notes of the survey of the subdivision lines of Township 4 North Range 1 East of the Utah Special Base & Meridian Utah,

executed by William Dallas under his contract No. 267, dated July 20, 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 S. 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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F.

O.W.G.

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

Subdivisions

of

Township 5 North Range 1 East

Of the Uintah Special Base & Meridian,

State of Utah

AS SURVEYED BY

William Dallas, United States Deputy Surveyor,

Under his Contract No. 267, dated July 20, 1903

Survey commenced July 24, 1904

Survey completed July 24, 1904

6—151

high 0. 49-15

Clay 0. 31-15

BOM A-505

NAMES AND DUTIES OF ASSISTANTS.

Wilfred B. Helne	Chainman
Chester Fleming	Chainman
Richard Hugh Camp	Moundman
Douglas King	Axman
Thomas Sands Doty	Flagman

For preliminary affidavits see book I. Tp. 4 N. R. 1 E.

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BOOK A-305

INDEX DIAGRAM.

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

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

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

.....

....., *Chainman.*

....., *Chainman.*

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

Subdivision of T. 5 N. R 1 E.

Survey commenced July 24th 1904.
and executed with a W. and L. E. Gurley Solar Compass, with telescope attachment the horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.
The instrument was examined, tested on the true meridian at Salt Lake City found correct, and was approved by the Surveyor General for Utah May 6th 1904.
I examine the adjustments of the instrument and find them correct.
July 24th 1904. At 1.30 P.M. l.m.t.
I set off 40° 47½' on the Lat. arc, 19° 51' N on Decl arc, and determine a Meridian with the Solar, at the Standard cor, of secs 31 and 32 on S bdy of Tp. heretofore described
Thence I run
No. 1. E. bet secs 31 and 32.
Over mountainous land ascending S.W. slope
27.15 Intersect the N. bdy of the Uintah Indian Reservation on top of main divide.
Set a Granite stone 18 x 12 x 14 ins 12 ins in the ground for Closing cor. of secs 31 and 32. marked C.C. U.I.R. and 1 groove on S. and U.I.R. on N. faces, and raised a mound of stone 2 ft base 1½ ft high S of cor.
Pit impracticable. from the Closing cor the North East cor. of the Uintah Indian Reservation. as established by Deputies A.H. and F. M. Brown. bears S 48° 15' E. 15.93 chs.

Land mountainous
Soil rocky 4th rate.
No timber
Mountainous land

27.15 chs

Subdivision of T 5 N. R 1 E.

From the cor of secs 25. 30. 31 and 36 on W. bdy of Tp. here to fore described I run.
East on a true line bet secs 30 and 31
Over mountainous land ascending a rocky S slope,
22.00 Intersect N. bdy of the Uintah Indian Reservation, on top of main Divide,
Set a Granite stone 18x8x4 ins 12 ins in the ground for Closing cor. to secs 30 and 31 marked C.C. U.I.R. on W. 1 groove on S. and U.F.R. on E. faces, from the Closing cor the 1 mile cor on the N. bdy of Reservation as established by Deputies A.H. and F.M. Brown. bears as follows,
S 82° 15' E. 5.22 chs to Angle cor. thence
S 45° 15' E. 10.00 chs to mile post No 1.

Land Mountainous
Soil rock 4th rate
No timber
mountainous land
22.00 chs

July 24. 1904

Latitudes. Departures, and closing errors.

Lines designated	True bearing	Distances	Latitudes N.	Latitudes S.	Departures E.	Departures W.
Uintah Special		chs.	chs	chs.	chs.	chs.
Meridian	North	83.02	83.02			
N. bdy Uintah	S82° 15'E	27.50		3.71	27.25	
Indian Reser-	S45° 15'E	90.00		63.36	63.92	
vation	S32° 00'W	18.77		15.91		9.95
First Std Parallel N.	West	81.23				81.23
			83.02	82.98	91.17	91.18
			82.98			91.17
			.04			
Error in Lat						
Error in Dep						01

Subdivision of T 5 N. R 1 E.

General Description

This fractional Tp. is mountainous in character, and lies on Top of the main Divide of the Wasatch mountains, mostly above timber line. there being no settlers and no indications of minerals. There is some timber along the West bdy.

William Dallas
U.S. Deputy Surveyor.

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BOOK A-305

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by William Dallas, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivisions of Tps 4 and 5 N. Rgs 1 E. of the Uintah Special Base and Meridian Utah. showing the respective capacities in which they acted:

Wilfred B. Helne, Chainman.
Chester Fleming, Chainman.
, Moundman.
Richard Hugh Camp, Moundman.
, Axman.
Douglas King, Axman.
Thomas Sands Doty, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted William Dallas, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions of Tps 4 and 5 N. Rgs 1 E. of the Uintah Special Base and Meridian Utah of the meridian, of , which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Wilfred B. Helne, Chainman.
Chester Fleming, Chainman.
, Moundman.
Richard Hugh Camp, Moundman.
Douglas King, Axman.
, Axman.
T. Sands Doty, Flagman.

Subscribed and sworn to before me this 24th day of July 1904, 180

SEAL

William Dallas
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, William Dallas, 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 20th 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 the Subdivisions of Tps 4 and 5 N. Ranges 1 E. of the Uintah Special Base and Meridian Utah

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

William Dallas
United States Deputy Surveyor.

Subscribed by said William Dallas, and sworn to before me this 3d day of October, 1904

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah November 12, 1904.

The foregoing field notes of the survey of the Subdivision Lines of Township 4 North Range 1 East of the Uintah Special Base & Meridian Utah

executed by William Dallas under his contract No. 267, 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.

6—151

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NOV 20 1903

BOOK A-305

W.A.
K.F.B.

FIELD NOTES

OF THE SURVEY OF THE

East, West and North Boundaries

Of

T 2 N R 3 W

Of the Wintah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E. Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268, dated July 20th 1903, ~~189~~

Survey commenced Aug 30th 1903, ~~189~~

Survey completed Sept. 6th 1903, ~~189~~

6—151

West high 6.00.00
North " 5.78.80
11.78.80

East Bg high 6.00.00 at rates for Dallas

NAMES AND DUTIES OF ASSISTANTS.

J. W. Potter	Chainman
Alec Pace	"
J. M. Sturdivan	flagman
J. L. Pace	axeman
Henry Hunter	moundman

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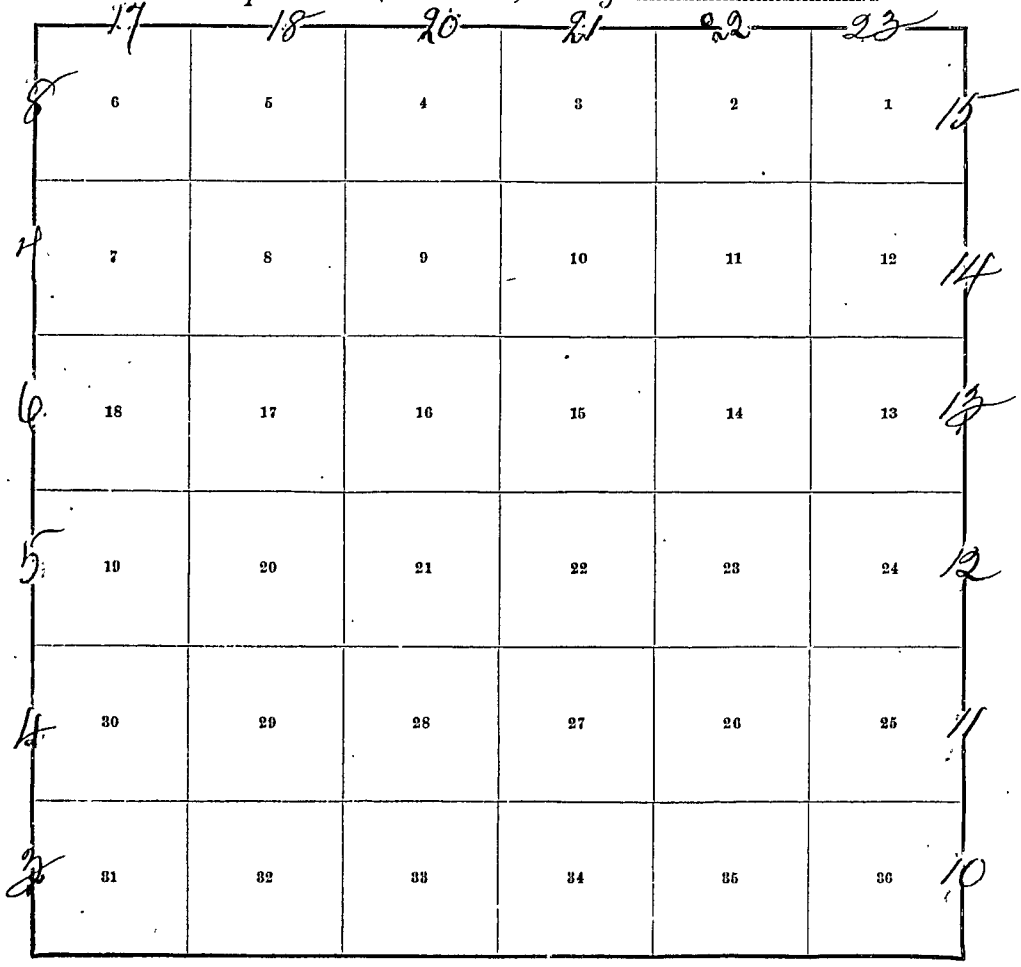
Volume
#
R0305

BOOK A-305

INDEX DIAGRAM.

Township 2 N , *Range* 3 W



Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, John Potter and Alec Pace

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 East West & North Bdys of Tp No 2 N. R No 3 W. Uintah Special Base & Meridian Utah

John Potter, Chainman.

Alec Pace, Chainman.

Subscribed and sworn to before me this 28th day of August 1903, 189

SEAL

Herman E Freudenthal
U.S. Deputy Surveyor

We, Harry Hunter 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 East West & north Bdys of Tp No 2 N. R. No 3 W Uintah Special Base & Meridian Utah

Harry Hunter, Moundman.

, Moundman.

Subscribed and sworn to before me this 28th day of August 1903, 189

SEAL

Herman E Freudenthal
U.S. Deputy Surveyor

We, J. E. Pace 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 East West & north Bdys of Tp No 2 N. R No 3 W. Uintah Special Base & Meridian Utah

J. E. Pace, Axman.

, Axman.

Subscribed and sworn to before me this 28th day of August 1903, 189

SEAL

Herman E Freudenthal
U.S. Deputy Surveyor

I, J. M. Sturdivan, 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 East West & North Bdys of Tp No 2 N. R No 3 W. Uintah Special Base & Meridian Utah

J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 28th day of August 1903, 189

SEAL

Herman E Freudenthal
U.S. Deputy Surveyor

6—151

A-305

1844

Note Explanatory

As the E Bdy of Ts 2 and 3 N Range 3 W is included in Cont. No 267. Wm Dallas and as Mr. Dallas has not taken the field to execute the work in his Cont I find it necessary to run this Range line Bet Ranges 2 and 3 W. ~~Between~~ ~~Through~~ Tps. 2 and 3 N. in order to execute the surveys under my contract No 268 Utah.

Capt. H. E. Prendenthal U.S.A.

Claims

with the solar a meridian and mark a point thereof, by a tack on a peg driven in the ground 5 chs. N. of the cor.

at 8h 57m p.m. l.m.t. I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground 5 chs. N. of my station.

August 30, 1903.

August 31: at 7 a.m. l.m.t. I lay off the azimuth of Polaris 1° 30' to the west, and mark the meridian thus determined by a tack driven in the peg set Aug. 30, on which the meridian falls 0.2 ins. east of the mark determined by the solar.

at 8h 10m a.m. l.m.t. I set N. 40° 32' W. on the lat. arc; 8° 57' N. on the decl. arc; and mark a point in the meridian determined with the solar, by a tack in the peg ahead, at 5 chs. N. of my station; this point falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observation defines positions for meridians respectively

Chains	0'10" 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 this corner is N. 16°34' W.; the angle thus determined gives the mag. decl. 16°34' E.

	From the closing cor. already described I run N. bet. secs. 31 and 36, Over gently rolling land and through dense sagebrush two feet high.
18.00	Enter heavy pine timber bra. E and N.
40.00	Set a quartzite stone 30 x 25 x 24 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face, from which a pine 10 ins. diam. bra. S. 65° W. 6 lks. dist., marked 1/4 S. 36 B.T. a pine 36 ins. diam. bra. N. 50° E. 61 lks. dist., marked 1/4 S 31 B.T.
80.00	Set a quartzite stone 26 x 12 x 10 ins. 20 ins. in the ground for cor. to secs. 25, 30, 31, and 36, marked with 1 notch on S. and 5 notches on N. edge; from which a pine 16 ins. diam. bra. S. 45° W. 26 lks. dist., marked T. 2 N. R 4 W S 36 B.T. a pine 5 ins. diam. bra.

West Bdy. T. 2 N. R. 3 W.

Chains	N. 54° 30' W. 51 lks. dist. marked T 2 N R 4 W S 25 - B.T.
	a pine 10 ins. diam., bears N. 25° E. 42 lks. dist. marked T 2 N R 3 W S 30 B.T.
	a pine 18 ins. diam., bears S. 55° 30' E. 31 lks. dist. marked T 2 N R 3 W S 31 B.T.
	Land, rolling.
	Soil, sand and rock, 3rd and 4th rate.
	Timber, pine, aspen,
	sage brush undergrowth.
	Heavy timber and dense undergrowth on 80 chs.

	North bet. secs. 25 and 30.
	Over mountainous land through heavy timber.
20.00	Ridge bet. N. W. and S. E.
40.00	Set a quartzite 20 x 12 x 10 ins., 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
	a pine 36 ins. diam., bears S. 80° 30' E. 65 lks. dist., marked 1/4 S. 30 B.T.
	a pine 30 ins. diam. bears S. 67° W. 166 lks. dist., marked 1/4 S. 25 - B.T.
41.00	Leave pine timber bears E. and W.
	Through dense sage brush.
44.75	Hold on course E.
	Over rolling land.
64.75	Enter aspen thicket bears E. and W.
72.00	Leave thicket enter dense sage brush, bears E. and W.
77.00	Draw course E.
80.00	Set a quartzite stone 14 x 10 x 5 ins.

West Bdy. T. 2 N. R. 4 W.

Chains | 9 ins. in the ground for cor. of secs. 19, 24, 25, and 30, marked with 2 notches on S. and 4 notches on N. edge; from which

A pine 8 ins. diam. bears N. 62°30'E., 232 lks. dist.; marked T 2 N R 3 W S 19 B T.

No other bearing trees within limits. Raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Land rolling and mountainous. Soil, sand and rocky. 3" and 4" rate.

Timber, pine and aspen, sage brush under growth.

Mountainous land 44.75 ch.

Heavy timber ~~as~~ dense under growth on 80.00 chs.

August 31; at this cor. I set off 8°53'N. in the decl. arc, and at 11h 50m a.m. m.t., observe the sun on the meridian; the resulting lat. is 40°33'N.

North bet. secs. 19 and 24.

Ascend south slope through dense sage brush.

7.00 Enter aspen thicket brs. E. and W.

39.00 Draw, course S.E.

40.00 Set a quartzite stone 14 x 14 x 8 ins. 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; from which

An aspen 4 ins. diam., brs. N. 71° E. 39 lks. dist., marked ¼ S. 19 B T.

An aspen 4 ins. diam., brs. S. 50° W. 28 lks. dist., marked

West Bdy T. 2 N. R. 3 W.

Chains	
	1/4 S. 24 BT.
41.00	Leave aspen thicket brs. N.W. and S.E. Enter dense sage brush.
60.00	Spur projects S.E. Continue ascent.
80.00	Set a quartzite stone 14x12x6 ins., 9 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. 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, 3" and 4" rate.
	Timber, pine and aspen;
	Sage brush under growth.
	Mountainous and heavily timbered land or covered with dense under growth 80.00 chs.
	— Aug. 31, 1903.

Sept. 1 ; At 7h 00m a.m. l.m.t. I set off 40°34' on the lat. arc. 8°37' N. on the decl. arc; and determine a meridian at the cor. of secs. 13, 18, 19 and 24; thence I run

North bet. secs. 13 and 18.

Ascending S. slope of ridge brs. N.W. and S.E.

6.00	Ridge brs. N.W. and S.E.
18.50	Ravine course S.E. Ascend.
	Enter heavy aspen and pine timber brs. N.W. and S.E.
33.00	Spur slopes N.E.
40.00	Set a quartzite stone 20 x 18 x 18 ins., 15 ins. in the ground for 1/4 sec. cor.

West Bdy. T. 2 N. R. 3 W.

Chains marked 1/4 on W. face; from which
An aspen 4 ins. diam. brs. S. 64°30' E. 115 lks. dist., marked 1/4 S. 18 B.T.
An aspen 4 ins. diam. brs. S. 53° W. 62 lks. dist., marked 1/4 S. 13 B.T.

70.00 Ridge brs. N. W. and S. E.
Descend.

80.00 Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13, and 18, marked with 4 notches on S. and 2 notches on N. edges; from which
A pine 9 ins. diam. brs. N. 57°45' E. 94 lks. dist., marked T. 2 N. R. 3 W. S. 7 B.T.
A pine 5 ins. diam. brs. S. 24°30' E. 12 lks. dist., marked T. 2 N. R. 3 W. S. 18 B.T.
A pine 4 ins. diam. brs. S. 23° W. 52 lks. dist., marked T. 2 N. R. 4 W. S. 13 B.T.
A pine 10 ins. diam. brs. N. 45° W. 42 lks. dist., marked T. 2 N. R. 4 W. S. 12 B.T.
Land, mountainous.
Soil, rocky, 3" and 4" rate.
Timber, pine and aspen.
Mountainous or heavily timbered land 80.00 chs.

North bet. secs. 7 and 12.
Descend through heavy pine and aspen timber.

13.25 Spring branch 5 lks. wide in ravine course S. E.
Ascend steep rocky S. slope.

West Bdy. T. 2 N. R. 3 W.

Chains

40.00 Set a quartzite stone 16 x 10 x 8 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which

A pine 11 ins. diam. brs. S. 80° W. 27 lks. dist., marked 1/4 S. 12 B T.

A pine 7 ins. diam. brs N. 52° 30' E. 33 lks. dist., marked 1/4 S 7 B T.

46.00 Spur projects E.

Along E. slope of ridge brs. N. W. and S. E.

64.70 Ravine course S. E.

Ascend

67.00 Leave live timber. Enter fire killed timber brs. E. and W.

80.00 Set a quartzite stone 16 x 10 x 6 ins. 11 ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked with 5 notches on S. and 1 notch on N. edge, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky; 3" and 4" rate.

Timber, pine, aspen and fir.

Mountainous and heavily timbered land, 80.00 chs.

Sept. 1. : Too cloudy at noon to observe latitude.

North bet. secs. 1 and 6.

Ascend through fire killed timber.

11.00 Leave burned district, enter live timber brs. E. and W.

20.50 High ridge brs. N. W. and S. E.

West Bdy. T. 2 N. R. 3 W.

Chains	
40.00	Descend steep rocky slope, Set a quartzite stone 16 x 10 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which a pine 5 ins. diam., brs. N. 67° W., 49 lks. dist., marked 1/4 S. 1 B T. a pine 4 ins. diam., brs. N. 50° E., 21 lks. dist., marked 1/4 S 6 B T.
80.00	Set a quartzite stone 16 x 12 x 10 ins. firmly in a mound of stone for cor. to T. Nos. 2 and 3 N. Rgs. 3 and 4 W., marked with 6 notches on N., E., S., and W. edges; from which a pine 6 ins. diam., brs. N. 2° W., 12 lks. dist., marked T 3 N R 3 W S 31 B T.; an aspen 4 ins. diam., brs. S. 61° E., 30 lks. dist., marked T 2 N R 3 W, S 6 B T. a pine 6 ins. diam., brs. S. 46° W., 84 lks. dist., marked T 2 N R 4 W S 1 B T. a pine 6 ins. diam., brs. N. 49° 15' W., 58 lks. dist., marked T 3 N R 4 W. S 36 B T. Land, mountainous. Soil, rocky; 4" rain. Timber, pine, aspen, fir, and spruce. Mountainous and heavy timbered land.

Sept. 1, 1903.

E. Bdy Tp. 2 N. R. 3 W.

Chains

Sept. 2, 1903: At the Tp. cor. of Tps. 1 and 2 N. Rs. 2 and 3 W., which is a trachyte stone 12 X 5 X 6 ins. above ground marked and witnessed as described by Deputy Hirst Con. No. 266 latitude 40°31'33" N., longitude 110°11'08" W., I set off 40°32' N. on the lat. arc, 8°14' N. on the decl. arc, and at 8h 00m a.m. l.m.t. determine the meridian with a solar.

Thence I run

North bet. secs. 31 and 36.

Over flat through dense sage brush.

40.00 Set a sandstone 20 X 14 X 6 ins. 15 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.

68.60 Draw course S.E.

80.00 Set a quartzite stone 14 X 12 X 10 ins., 9 ins. in the ground for cor. of secs. 25, 30, 31, and 36 marked with 1 notch on S. and 5 notches on N. edge; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Land level.

Soil sandy; 3" rate.

No timber.

Sage brush and bunch grass.

Dense under growth 80.00 chs.

E. Bdy. Tp. 2 N. R. 3 W.

Chains	
	North bet. secs. 25 and 30. Ascend gradually through dense sage brush.
16.00	Enter scattering timber bns. N.E. and S.W.
40.00	Set a quartzite stone 16 x 12 x 6 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which a pine 6 ins. diam., brs. S. 36° W. 97 lks. dist., marked 1/4 S. 25 - B T. a pine 14 ins. diam. brs. S. 88° 30' E. 205 lks. dist., marked 1/4 S. 30 B T.
74.00	Ridge brs. N. W. and S. E.
80.00	Set a quartzite stone 16 x 10 x 6 ins. 11 ins. in the ground for cor. to secs. 19, 24, 25 and 30, marked with 2 notches on S. and 4 notches on N. edge; from which a pine 6 ins. diam., brs. S. 71° 15' E. 37 lks. dist., marked T 2 N R 2 W S 30 B T. a pine 10 ins. diam. brs. N. 79° E. 40 lks. dist., marked T 2 N R 2 W. S 19 B T. a pine 10 ins. diam., brs. S. 46° 30' W. 49 lks. dist., marked T 2 N R. 3 W S 25 B T. a pine 7 ins. diam., brs. N. 35° W. 114 lks. dist., marked T 2 N R 3 W S 24 B T.
	Land mostly level and mountainous. Soil, sandy, 3rd rate. Timber, pine, aspen. Chaparral. Large brush undergrowth. Mountainous or heavily timbered land, or dense undergrowth 80.00 chs.

E. B'dy. Tp 2 N. R. 3 W.

Chains. Sept. 2: at this cor. I set off 8°10' N. on the decl. arc; and at 11h 58m a.m. l. m. t. observe the sun on the meridian; the resulting lat. is 40°33'.

North bet. secs. 19 and 24.
Over mountainous land descending through heavy pine timber.

4.00 Ravine, course S. E.
Ascend.

38.00 Ridge brs. E. and W. Descend.

40.00 Set a quartzite stone 14 X 12 X 8 ins., 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
A pine tree 10 ins. diam., brs. N 82°30' W., 16 lks. dist., marked 1/4 S 24 BT.
A pine 6 ins. diam., brs. N. 79° E. 37 lks. dist., marked 1/4 S. 19 BT.

60.00 Ravine course E. SE.
Ascend.

80.00 Set a quartzite stone 4 X 8 X 7 ins., 9 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on N. and S. edge; from which
A pine 8 ins. diam., brs. S 65° E. 73 lks. dist., marked T 2 N R 2 W S 19 BT.
A pine 14 ins. diam., brs. N. 54° E. 31 lks. dist., marked T 2 N. R. 2 W S 18 BT.
A pine 10 ins. diam., brs. N. 50°15' W. 144 lks. dist., marked T 2 N R 3 W S 13 BT.

E. Bdy. Tp. 22 N. R. 30 W.

Chains	A pine 10 ins. diam., brs. S. 55° 30' W. 9 lks. dist., marked T 22 N R 30 W S 24 B T.
	Land, mountainous.
	Soil, sandy and rocky; 3" rate,
	Timber, pine.
	Mountainous and heavily timbered land for 20 chs.

	North bet. secs. 13 and 18.
	Ascend through heavy pine timber.
10.00	Ridge brs. N. W. and S. E.
	Descend.
21.00	Ravine, course S. E. Ascend.
4.50	Set a quartzite stone 10 x 12 x 4 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
	A pine 6 ins. diam., brs. N. 51° 15' W. 16 lks. dist., marked 1/4 S 13 B T.
	A pine 5 ins. diam., brs. N. 38° 30' E., 34 lks. dist., marked 1/4 S 18 B T.
52.00	Ridge brs. E. and W. Descend.
77.00	Spring branch 6 lks. wide in ravine, course S. E.
80.00	Set a quartzite stone 18 x 14 x 12 ins., 12 ins. in the ground for cor. to secs. 7, 12, 13, and 18, marked with 4 notches on S. and 2 notches on N. edge; from which
	An aspen 6 ins. diam., brs. N. 35° 30' W., 40 lks. dist., marked T 22 N R 30 W S 7 B T.
	A pine 10 ins. diam., brs. N. 61° 30' E., 23 lks. dist., marked

E. Bdy. Tp. 2 N. R. 3 W.

Chains T 2 N R 2 W S 7 B T.
An aspen 10 ins. diam., brs. S. 35°30' E., 33 lks. dist., marked T 2 N R 2 W S 18 B T.
An aspen 8 ins. diam., brs. S. 47°30' W. 57 lks. dist., marked T 2 N R 3 W S 13 B T.
Land, mountainous.
Soil, rocky; 3" rate.
Timber, pine and aspen.
Mountainous and heavily timbered land 80.00 chs.

Sept. 2, 1903.

Sept. 3.; at 7h 00m a.m. l.m.t. I set off 40°35' on the lat. arc; 7°53' N. on the decl. arc, and determine a meridian at the cor. of secs. 7, 12, 13, and 18; thence I run
North bet. secs. 7 and 12.
Ascend steep slope through heavy pine and aspen timber.
40.00 Set a quartzite stone 14 x 8 x 5 ins., 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
An aspen 10 ins. diam., brs. N. 76°30' W. 51 lks. dist., marked 1/4 S 12 B T.
An aspen 8 ins. diam., brs. S. 64° E., 16 lks. dist., marked 1/4 S 7 B T.
58.00 Spur projects E. along E. slope of high mountain.
80.00 Top of ridge brs. E. and W.
Set a quartzite stone 20 x 12 x 6 ins., 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12, marked with 5 notches on S.

E. Bdy. Tp. 2N. R. 3W.

Chains and 1 notch on N. edge; from which

a pine 12 ins. diam., brs. N. 49° E. 48 lks. dist., marked T2N R2W. S. 6 BT.

a pine 12 ins. diam., brs. N. 58° 15' W. 22 lks. dist., marked T2N. R. 3W. S 1 BT.

a pine 7 ins. diam., brs. S. 32° E., 6 lks. dist., marked T2N R2W. S 7 BT.

a pine 9 ins. diam., brs. S 46° W. 22 lks. dist., marked T2N. R. 3W. S 12 BT.

Land mountainous.

Soil, rocky, 3" rate.

Timber, pine and aspen.

Mountainous and heavily timbered land, 80.00 chs.

Sept. 3: at this cor. I set off 7° 48' N. on the decl. arc; and at 11h 59m a.m., l.m.t. observe the sun on the meridian, the resulting lat. is 40° 36'.

North bet. secs. 1 and 6.

Descend through dense pine timber.

34.00 Ravine, course E. ascend.

40.00 Set a quartzite stone 20 x 12 x 8 ins., 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which

a pine 4 ins. diam., brs. N. 62° W. 31 lks. dist., marked 1/4 S 1 BT.

a pine 4 ins. diam., brs. N. 73° E., 20 lks. dist., marked

E. Bdy. T⅞. 2 N. R. 3 W.

Chains	
	¼ S. 6 B.T.
46.00	Ridge trs. E. and W. descend,
60.00	Ravine course E. descend,
77.00	Ridge trs. E. and W. descend,
80.00	Set a quartzite stone 16 x 14 x 14 ins., 12 ins. in the ground for cor. of T⅞s. 2 and 3 N. R⅞s. 2 and 3 W., marked with 6 notches on N., E., S., and W., edges; from which
	a pine 8 ins. diam., brs. N. 50° E., 31 lks. dist., marked T 3 N R 2 W. S 31. B.T.
	a pine 6 ins. diam., brs. N. 61° 30' W. 33.5 lks. dist., marked T 3 N R 3 W. S 36 B.T.
	a pine 7 ins. diam., brs. S 61° 30' E., 36 lks. dist., marked T 2 N R 2 W. S 6 B.T.
	a pine 10 ins. diam., brs. S 42° W. 39 lks. dist., marked T 2 N R 3 W. S 1 B.T.
	Land, mountainous.
	Soil, rocky; 3" rain.
	Timber, pine and spruce.
	Mountainous and heavily timbered land 80.00 chs.

Sept. 3, 1903

North Bdy. Tp. 2 N. R. 3 W.

Chains Sept. 4: At 9h 00m a.m. l.m.t. I set off 40°37' N. on the lat. arc; 7°29' N. on the decl. arc; and determine a true meridian with the solar at the cor. of Tps. 2 and 3 N. R's. 2 and 3 W.

Thence I run

West on a random line along the N. bdy. of Tp. 2 N. R. 3 W., setting temp. ¼ sec. and sec. cors. at intervals of 40.00 chs.; and at 478.80 chs. intersect N. and S. line 30 lks. S. of cor. of Tps. 2 and 3 N. R's. 3 and 4 W., heretofore described. The falling answers to a correction of 0°02', or 5 lks. N. per mile, counting from the N. E. cor. of the Tp.; therefore I run as follows:

Sept. 4, 1903.

Sept. 5, 1903: At 8h 00m a.m. l.m.t. I set off 40°37' N. on the lat. arc; 7°08' N. on the decl. arc; and determine a true meridian with the solar at the cor. of Tps. 2 and 3 N. Rs. 3 and 4 W.

Thence I run

S. 89°58' E. bet. secs. 6 and 31.

Descend through heavy timber.

3.60 Bottom of canon, course S. E.

38.80 Set a quartzite stone 15 x 12 x 6 ins., 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; from which

a pine 10 ins. diam., brs.

North Bdy. Tp. 2 N. R. 3 W.

Chains. S 12° E. 19 lks. dist., marked
1/4 S. 6 B. T.
A pine 8 ins. diam., brs.
N. 44° E. 10 lks. dist., marked
1/4 S 31 B T.
47.00 Ridge brs. N. and S. Descend,
70.00 Leave live timber, enter
fire killed timber brs. N. and S.
78.30 Spring branch 3 lks. wide,
in ravine, course S. E.
Ascend gradually.
78.80. Set a quartzite stone 17 X 10 X
10 ins., 12 ins. in the ground
for cor. of secs. 5, 6, 31, and 32
marked with 5 notches on E.
and 1 notch on W. edge;
and raise a mound of
stone 2 ft. base 1 1/2 ft. high
W. of cor.
Pits impracticable.
Land, mountainous.
Soil, rocky; 3" and 4" rate.
Timber pine.
Mountainous and
heavily timbered land 78.80 chs.

S. 89° 58' E. bet. secs. 5 and 32.
Ascend gradually through
dense fire killed timber.
10.00 Steep projects S.E.
14.00 Leave burned district.
Enter live timber brs. N. and S.
19.60 Spring branch ten lks. wide
in cañon, course S. E.
40.00 Ridge brs. N. and S. Descend
Set a limestone 14 X 12 X 10 ins.,
9 ins. in the ground for 1/4 sec.
cor., marked 1/4 on N. face;
from which
A pine 9 ins. diam., brs.
N. 65° W., 43 lks. dist., marked

North Bdy. Tp. 2 N. R. 3 W.

Chains	
	1/4 S. 32 B.T.
	A pine 12 ins. diam., brs. S. 51° W. 90 lks. dist., marked 1/4 S. 5 B.T. Peak brs. 4 chs. S.
65.00	Ravine course S.E. Ascend.
74.00	Ridge brs. N. W. and S. E. Descend along N.E. slope of ridge
80.00	Set a granite stone 14 X 10 X 16 ins., 11 ins. in the ground for cor. of secs. 4, 5, 32, and 33 marked with 2 notches on W. and 4 notches on E. edge; from which
	A pine 9 ins. diam., brs. N. 33° E. 35 lks. dist., marked T 3 N R 3 W S 33 B.T.
	A pine 32 ins. diam., brs. S. 22° E. 39 lks. dist., marked T 2 N R 3 W S 4 B.T.
	A pine 24 ins. diam., brs. S. 64° W. 28 lks. dist., marked T 2 N R 3 W S 5 B.T.
	A pine 8 ins. diam., brs. N. 28° W. 37 lks. dist., marked T 3 N R 3 W. S 32 B.T.
	Land, mountainous.
	Soil, rocky; 3" and 4" rate.
	Timber, pine, aspen, fir, and spruce.
	Mountainous and heavy timbered land 80.00 chs.
	Sept. 5; at this cor. I set off 7° 04' N. on the decl. arc; and at 11h 56m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40° 37'.'

North Bdy. T. 2 N. R. 3 W.

Chains	
	S. 89° 57' E. 4 lt. rec. 4 and 33. Descend through heavy timber.
20.00	Ravine, course S. E. Ascend.
28.00	Ridge bns. N. W. and S. E. Descend.
40.00	Set a granite stone 16 x 10 x 4 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which A aspen, 9 ins. diam., bns. S. 50° W. 25 lks. dist., marked 1/4 S. 4 B T. An aspen, 10 ins. diam., bns. N. 65° E. 22 lks. dist., marked 1/4 S. 33 B T.
40.80	Spring branch 4 lks. wide, course S. E.
45.00	Spring branch 5 lks. wide, course S. E. Lake having area of about 5 acres bns. S. 10 lks.
50.00	Ravine course S. Ascend.
56.20	Ridge bns. N. and S. Descend.
59.00	Ravine course S. E. Ascend.
63.00	Top of spur projects S. Descend.
71.40	Spring branch 5 lks. wide in E. Fork Dry Gulch, course S. Ascend.
80.00	Set a quartzite 15 x 9 x 6 ins., 10 ins. in the ground for cor. to secs. 3, 4, 33, and 34, marked with 3 notches on E. and W. edge; from which A pine 11 ins. in diam., bns. N. 15° 30' E. 47 lks. dist., marked T 3 N R 3 W S 34 B T. A pine 11 ins. in diam., bns. S. 19° E. 53 lks. dist., marked T 2 N R 3 W S 3 B T. A pine 7 ins. diam., bns.

North Bdy. Tp. 2 N. R. 3 W.

Chains S 19° W. 48 lks. dist. marked T 2 N R 3 W. S 4 B T.
a pine 10 ins. diam. brs. N. 32° 30' W. 50 lks. dist. marked T 3 N R 3 W S 33 B T.
Land, mountainous.
Soil, rocky; 3" + 4" rate.
Timber, pine, aspen, fir, and spruce.
Mountainous and heavy timbered land 80.00 chs.
Sept. 5, 1903

Sept. 6: At 7h 00m a.m., l.m.t., I set off 40' 3 W on the lat. arc. 6° 47' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34, thence Inun S. 89° 58' E. bet. secs. 3 and 34.
Ascend through heavy timber, pine, fir, and aspen.

40.00 Set a quartzite stone 14 X 10 X 8 ins. 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which
a pine 9 ins. diam. brs. S. 34° W., 15 lks. dist. marked 1/4 S 3 B T.
a pine 7 ins. diam. brs. N. 21° E. 23 lks. dist. marked 1/4 S 34 B T.

52.00 Leave timber brs. N. and S.
Enter open.

54.00 Top of steep ascent.
Over high plateau brs. N. and S.

77.00 Enter heavy pine timber brs. N. and S. Leave plateau

80.00 Set a sandstone 15 X 12 X 6 ins. 10 ins. in the ground for cor. of secs. 2, 3, 34, and 35, marked

North Bdy. Tp. 2 N. R. 3 W.

Chains with 4 notches on W. and 2 notches on E. edge; from which
A pine 7 ins. diam., brs. N. 12° E., 83 lks. dist., marked T 3 N R. 3 W. S. 35 BT.
A pine 8 ins. diam., brs. S. 52° 30' E., 33 lks. dist., marked T 2 N R 3 W. S. 2 BT.
A pine 8 ins. diam., brs. S 2° 30' W., 41 lks. dist., marked T 2 N R 3 W. S 3 BT.
A pine 14 ins. diam., brs. N. 67° 30' W., 9 lks. dist., marked T 3 N. R. 3 W. S. 34 BT.
Land, mountainous
Soil, rocky; 3" and 4" rate
Timber, pine, aspen and fir.
Mountainous and heavy timbered land 80.00 chs.

S. 89° 58' E. bet. secs. 2 and 35
Descend through heavy pine timber.
10.30 Cañon, course S. W. Ascend.
20.00 Top of ascent. Leave timber. Over high plateau brs. N. and S.
32.00 Enter heavy pine timber brs. N. W. and S. E.
40.00 Set a quartzite stone 16 x 12 x 6 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
A pine 9 ins. diam., brs. N. 48° W., 42 lks. dist., marked 1/4 S. 35 BT.
A pine 8 ins. diam., brs. S. 63° W. 45 lks. dist., marked 1/4 S 2 BT.
73.00 Begin steep descent from

North Bdy. Tp. 2 N. R. 3 W.

Chains
80.00 plateau brs. N. and S.
Set a quartzite stone 16 X 10 X 8 ins., 11 ins. in a mound of stone for cor. of secs. 1, 2, 35 and 36, marked with 5 notches on W. and 1 notch on E. edge; from which
A pine 16 ins. diam., brs. N. 39°30'E. 135 lks. dist. marked T 3 N R 3 W S 36 B T.
A pine 9 ins. diam., brs. S. 3°30'E. 70 lks. dist. marked T 2 N R 3 W S 1 B T.
A pine 11 ins. diam., brs. S. 37°W. 64 lks. dist. marked T 2 N R 3 W S 2 B T.
A pine 6 ins. diam., brs. N. 18°W. 123 lks. dist. marked T 3 N R 3 W S 35 B T.
Land, mountainous.
Soil, rocky; 3" and 4" rate.
Timber, pine and fir.
Mountainous and heavy timbered land 80.00 chs.
Sept. 6; Sky overcast at noon, impossible to take observation for latitude.

Sept. 6; At 2h 0m p.m. l.m.t., I set off 40°37'N. on lat. arc, 6°41'N. on decl. arc; and determine a meridian at the cor. of secs. 1, 2, 35, and 36; thence I run:
S. 89°58'E. bet. secs. 1 and 36.
Descend rocky slope through heavy pine timber.
22.00 Ravine, course N. W. Ascend.
40.00 Set a sandstone 16 X 10 X 8 ins., firmly in a mound of stone;

North Bdy. Tp. 2 N. R. 3 W.

Chains	
	for 1/4 sec. cor. marked 1/4 on N. face; from which
	A pine 10 ins. diam. brs. N. 10° W. 12 lks. dist., marked 1/4 S 36 B T.
	A pine 8 ins. diam. brs. S 11° W. 14 lks. dist., marked 1/4 S 1 B T.
57.00	Top of ridge brs. N. E. and S. W. Descend.
80.00	The cor. of Tps. 2 and 3 N. Rs. 2 and 3 W.
	Land, mountainous.
	Soil, rocky; 3" and 4" rate.
	Timber, pine.
	Mountainous and heavy timbered land 80.00 chs.

Sept. 6, 1903.

Note: Where corners were set in mound of stone, it was necessary on account of the rocky formation of the country.

For general description of West, East, and North Bdys. Tp 2 N R 3 W. see Subdivision Tp 2 N R 3 W.

Boundaries of Tp. 2 N., R. 3 W.

Latitudes, departures, and closing errors.

Line designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
		chs.	chs.	chs.	chs.	chs.
North Bdy. T 1 N R 3 W.	West	47.60				47.60
W. Bdy. T 2 N R 3 W.	North	40.00	40.00			
N. Bdy. T 2 N R 3 W.	S. 89° 06' E.	47.80		0.28	47.80	
E. Bdy. T 2 N R 3 W.	South	40.00		40.00		
Convergency					0.62	
Totals			40.00	40.28	47.42	47.60
				40.00	47.60	
Error in lat. and dep.				0.28	0.82	

Herman C. Freudenthal
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 Herman E Freudenthal, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the East, West and North Bdy's of Tp. 2 N R 3 W Uintah Special Base and Mer. Utah showing the respective capacities in which they acted:

John Potter, Chainman.
Alec Pace, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. E. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the East, West and North Bdy's of Tp 2 N R 3 W of the Uintah Special Base meridian, Utah of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

John Potter, Chainman.
Alec Pace, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. E. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 6th day of September 1903, 18—

SEAL

Herman E Freudenthal
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E Freudenthal 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 20th 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 East, West and North Bdy of Tp. 2 N R 3 W

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

Herman E Freudenthal
United States Deputy Surveyor.

Subscribed by said Herman E Freudenthal and sworn to before me this 20th day of November 1903, 189

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah June 1 1904, 189

The foregoing field notes of the survey of the East West & North Boundaries of Tp. 2 N Rge 3 West of the Uintah Special Base & Meridian, Utah,

executed by Herman E Freudenthal under his contract No. 268, 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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Ex. J. N.

B.

FILED

NOV 20 1903

W.A.
K.F.B

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

K.F.B.

Subdivision Lines

Of

Tp. No. 2 N. Range No. 3 W.

Of the Uintah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E. Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268, dated July 20th 1903, 189-

Survey commenced Sept. 7 1903, 189-

Survey completed Sept. 24 1903, 189-

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high 57-64-44
Low 2.13.84

BOOK A-305

NAMES AND DUTIES OF ASSISTANTS.

John Potter	Chainman
O. R. Mann	"
Harry Hinder	Rodsman
J. L. Pace	Axman
J. M. Sheridan	Flagman

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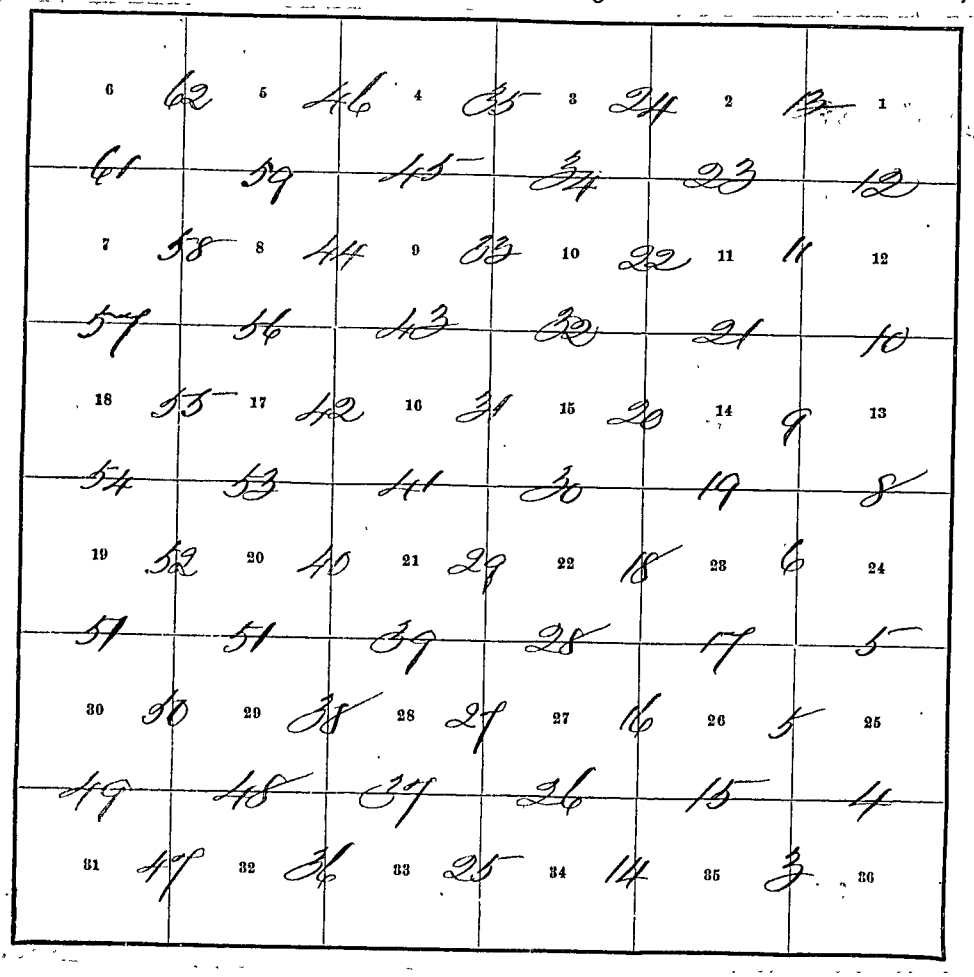
BOOK A-305

INDEX DIAGRAM.

Township No 2 N , *Range* No 3 W. US Basc. Mer.



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PRELIMINARY OATHS OF ASSISTANTS.

WE, John Potter and O. P. Morse 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 Sub-division lines of Tp. No 2 N. R. No 3 W. Uintah Special Base & Meridian, Utah

John Potter, Chainman.

O P Morse, Chainman.

Subscribed and sworn to before me this 5th day of September 1903, [illegible]

Herman E Freudenthal
U. S. Deputy Surveyor

SEAL

WE, P. Harry Hunter 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 Sub-divisions lines of Tp. No 2 N. R. No 3 W. Uintah Special Base & Meridian, Utah

P Harry Hunter, Moundman.

, Moundman.

Subscribed and sworn to before me this 5th day of September 1903, [illegible]

Herman E Freudenthal
U. S. Deputy Surveyor

SEAL

WE, J. L. L. Pace and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Sub division lines of Tp. No 2 N. R. No 3 W. Uintah Special Base & Meridian Utah

J. L. Pace, Axman.

, Axman.

Subscribed and sworn to before me this 5th day of September 1903, [illegible]

Herman E Freudenthal
U. S. Deputy Surveyor

SEAL

I, J. M. Sturdivan, 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 Sub-division lines of Tp. No 2 N. R. No 3 W. Uintah Special Base & Meridian, Utah

J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 5th day of September 1903, [illegible]

Herman E Freudenthal
U. S. Deputy Surveyor

SEAL

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Subdivisions T. 2 N. R. 3 W.

Chains

Survey commenced September 7, 1903 and executed with a W. and L. E. Gurley light mountain transit, no number, for full description of which see notes of the survey of "East, West, and North boundaries of T. 2 N. R. 3 W. 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 my camp in sec. 27 approximate latitude 40°33' N. longitude 110°14' W. I set off 40°33" on the lat. arc, 6°15' N. on the decl. arc, and at 4h 0m p. m. l. m. t. determine with the solar a meridian and mark a point thereof, by a tack in a peg driven in the ground 5 chs N. of my station.

At 8h 26m p. m. l. m. t. I observe Polaris at eastern elongation, in accordance with the manual of instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station. Sept. 7, 1903.

Subdivisions T. 2 N. R. 3 W.

Chains

Sept. 8. 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 a tack driven in the peg. set Sept. 7, on which the meridian falls 0.06 ins. E. of the mark determined by the solar.

At 8h 00m a.m. l.m.t., I set off 40°33' on the lat. arc; 6°01' N. on the decl. arc; and find that the meridian thus determined coincides with that determined by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively 0'3" W. and coincident with 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 8h 00m a.m. is N 16°34' W. the angle thus determined gives the magnetic declination 16°34' E.

From the cor. of Tps. 1 and 2 N. Rs. 2 and 3 W., already described, I run W. on the S. bdy. of sec. 36; at 40.08 chs. fall 1.0 lks. N. of ¼ sec. cor., and at 80.15 chs. fall 1.5 lks. N. of cor. of secs. 1, 2, 35, and 36 on S. bdy. of Tp.; consequently

Subdivisions T. 2 N. R. 3 W.

Chains	
	the S. bdy. of secs. 36 brs. West. Therefore the bearings are as stated by the surveyor general and my chaining practically agrees with the field notes of the original survey. I commence at the cor. of secs. 1, 2, 35, and 36 on the S. bdy. of Tp. which is a quartzite stone 12 X 6 X 5 ins. above ground marked and witnessed as described by the surveyor general. Thence I run N. 0° 1' W. bet. secs. 35 and 36. Over mountainous land through dense sage brush, 2 ft. high. Descend.
31.70	Dim road and packtrail brs. N. W. and S. E.
33.00	Ravine, course S. E. Ascend.
40.00	Set a quartzite stone 18 X 12 X 8 ins., firmly in a mound of stones 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.
48.00	Top of ascent. Across mesa brs. E. and W.
80.00	Set a quartzite stone 16 X 9 X 6 ins., 11 ins in the ground for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on S. and E. edge, and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor. Pits impracticable. Land, mountainous.

Subdivisions T. 2 N. R. 3 W.

Chains	
	Soil, rocky; 3" rate.
	Sage brush and bunch grass
	No timber.
	Mountainous land or dense undergrowth 80.00 chs.
	Sept. 8: Sky overcast at noon, impossible to take observation for lat.
	East on a random line bet. secs. 25 and 36.
40.00	Set temp. ¼ sec. cor.
[illegible].20	Intersect. E. bdy. of Tp. 2 lks. N. of cor. of secs. 25, 30, 31 and 36, heretofore described.
	Thence Irun
	N. 89°59' W. on a true line bet. secs. 25 and 36.
	Ascend over rolling land through dense sage brush
8.80	Dry wash in draw course S.E.
34.70	Dry wash in draw, course S.E.
	Ascend over mountainous land.
40.10	Set a quartzite stone 15 x 7 x 10 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable.
50.50	Top of ascent. Over mesa [illegible] brs. N. W. and S.E.
80.20	The cor. of secs. 25, 26, 35, and 36.
	Land rolling and mountainous.
	Soil, sandy and rocky, 3" rate.
	Sage brush.
	No timber.
	Mountainous land or covered with dense undergrowth 80.20 chs.

Subdivision T. 22 N. R. 3 W.

Chains	
	N. 0° 1' W. bet. secs. 25 and 26.
	Over mesa, through dense sage brush.
24.00	Leave mesa, brs. N. W. and S. E. Ascend.
38.00	Enter aspen thicket, brs. E. and W.
40.00	Set a quartzite stone 16 x 10 x 6 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which an aspen 5 ins. diam., brs. S. 7° W. 62 lks. dist., marked 1/4 S. 26 B. T.
	An aspen 4 ins. diam., brs. S. 30° E. 47 lks. dist., marked 1/4 S. 25 B. T.
40.40	Dry marking gulch, course S. E.; leave thicket, brs. N. W. and S. E.
56.00	Ridge, brs. N. W. and S. E., descend.
64.70	Ravine, course S. E. Ascend.
80.00	Set a quartzite stone 16 x 10 x 6 ins., 11 ins. in the ground for cor. to 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 1 1/2 ft. high W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3" and 4" rate.
	Timber, aspen; sage brush under growth.
	Mountain and densely timbered land, or covered with dense undergrowth 80.00 chs.

S. 89° 59' E. on random line bet. secs. 24 and 25.

Subdivisions T. 2 N. R. 3 W.

Chains	
40.00	Set temp. 1/4 sec. cor.
80.30	Intersect E. bdy. of Tp. 30 lks. S. of cor. of secs. 19, 24, 25, and 30, heretofore described. Thence Trun S. 89° 48' W. on a true line bet. secs. 24 and 25. Ascend over mountainous land through heavy timber
7.50	Ridge brs. N. W. and S. E. Descend.
26.00	Ravine course S. Ascend.
34.00	Ridge, brs. N. and S. Descend.
38.00	Ravine, course S. Ascend.
40.15	Set a quartzite stone 18 X 14 X 10 ins., 12 ins. in mound of stone for 1/4 sec. cor. marked 1/4 on N. face; from which: A pine 8 ins. diam. brs. N. 0° 45' W., 69 lks. dist., marked 1/4 S 24 BT. A pine 12 ins. diam. brs. S. 4° W. 120 lks. dist., marked 1/4 S. 25 BT.
50.00	Leave timber brs. N. W. and S. E. and enter open. Ascend along S. E. slope through dense sage brush
80.30	The cor. of secs. 23, 24, 25, and 26. Land, mountainous. Soil, rocky; 3" and 4" rate. Timber, pine and aspen; Sage brush under growth. Mountainous land, and heavily timbered or covered with dense under growth 80.30 chs.

Sept. 8, 1903.

Subdivisions T.2N. R.3W.

Chains	Sept. 9. at 8h 00m a.m., l.m.t.; I set off 40°33'N. on the lat. arc; 5°38'N. on the decl. arc; and determine a meridian at the cor. of secs. 23, 24, 25, and 26; thence Grun
	N. 0°1'W. bet. secs. 23 and 24.
	Over mountainous land, ascending.
5.00	Enter scattering timber brs. E. and W.
30.00	Ridge, brs. N.E. and S.W.
	Enter dense undergrowth, aspens and scattering pines.
35.00	Head of draw course S.W.
40.00	Set a quartzite stone 16X10X4 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
	An aspen 4 ins. diam., brs. S.45°W., 18 lks. dist., marked 1/4 S 23 BT.
	An aspen 5 ins. diam., brs. N.65°30'E., 20 lks. dist., marked 1/4 S. 24 BT.
69.00	Ridge brs. E. and W.
	Descend.
80.00	Set a quartzite stone 16X14X8 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; from which
	A pine 10 ins. diam., brs. N.25°30'E. 57 lks. dist., marked T2N. R.3W. S13 BT.
	A pine 8 ins. diam., brs. S.56°30'E., 64 lks. dist., marked T2N R3W S 24 BT.
	A pine 8 ins. diam., brs. S.71°15'W. 75 lks. dist., marked

Subdivision T. 2 N. R. 30 W.

Chain	T 2 N R 30 W S 23 B T.
	a pine 10 in. diam., brs.
	N. 30° W. 40 lks. dist., marked
	T 2 N R 30 W S 14 B T.,
	Land, mountainous.
	Soil, rocky; 3" and 4" rate.
	Timber, pine, aspen and fir.
	Mountainous or heavily
	timbered land, or dense
	undergrowth on 80.00 chs.
	N. 89° 44' E. on a random
	line bet. secs. 13 and 24.
40.00	Set temp. 4 sec. cor.
80.20	Intersect E. bdy. of T 1 N. 5 lks.
	N. of cor. to secs. 13, 18, 19 and
	24, heretofore described.
	Thence run
	S. 89° 50' W. on the line
	bet. secs. 13 and 24.
	Ascend very mountainous
	land through heavy pine and
	aspen timber and dense
	undergrowth.
25.00	Top of ridge brs. N. W. and S. E.
	Descend.
40.10	Set a quartzite stone
	15 X 10 X 5 ins., firmly in a
	mound of stones for 4 sec.
	cor. marked + on N. face;
	from which
	a pine 5 ins. diam., brs.
	S. 5° E. 29 lks. dist., marked
	+ 4 S. 24 B T.
	a pine 6 ins. diam., brs.
	N. 15° 30' W. 23 lks. dist., marked
	+ 4 S. 13 B T.
51.30	Ravine, course S. E. Ascend.
80.20	The cor. to secs. 13, 14, 23 and 24.
	Land, mountainous.

Subdivisions T. 2 N. R. 3 W.

Chains	Soil, rocky; 4" rate. Timber, pine and aspen. Mountainous or heavily timbered land, or dense undergrowth. 80.20 chs. Sept. 9: At this cor. I set off 5°34' N on the decl. arc; and at 11h 55m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40°34' N.
	N. 0°1' W. bet. secs. 13 and 14. Descend through thick pine and aspen timber
20.00	Ravine, course S.E. Ascend
37.00	Spur projects S.E.
40.00	Set a quartzite stone 18X12X6 ins. firmly in a mound of stones, for 1/4 sec. cor. marked 1/4 on W. face; from which
	A pine 10 ins. diam. brs. S. 32°E. 71 lks. dist., marked 1/4 S. 13 B.T.
	An aspen 6 ins. diam. brs. N. 73°30' W. 21 lks. dist., marked 1/4 S 14 B.T.
50.00	Head of draw, course S.E. Ascend
80.00	Set a quartzite stone 16X10X4 ins. 11 ins. in the ground for cor. of secs. 11, 12, 13 and 14, marked with 4 notches on S. and 1 notch on E. edge; from which
	An aspen 7 ins. diam. brs. N. 31°E. 52 lks. dist., marked T 2 N R 3 W S 12 B.T.
	An aspen 6 ins. diam. brs. S. 66°30' E., 93 lks. dist., marked

Subdivisions T. 2 N. R. 3 W.

Chains T 2 N R 3 W S 13 B T.
An aspen 12 ins. diam. brs. S. 42°30' W. 70 lks. dist., marked T 2 N R 3 W S 14 B T.
An aspen 11 ins. diam. brs. N. 36°15' W. 39 lks. dist., marked T 2 N R 3 W. S 11 B T.
Land mountainous.
Soil, rocky; 4" rate.
Timber, pine and aspen.
Mountainous and heavily timbered land 80.00 chs.
Sept. 9, 1903.

Sept. 10, At 7h 00m a.m. l.m.t., I set off 40°35' on the lat. arc; 5°18' N. on the decl. arc; and determine a meridian at the cor. of secs. 11, 12, 13 and 14; thence I run
N. 89°50' E. on a random line bet. secs. 12 and 13.
40.00 Set temp. 1/4 sec. cor.
80.18 Intersect E. bdy. of Tp., 9 lks. N. of cor. of secs. 7, 12, 13 and 18, heretofore described.
Thence I run
S. 89°54' W. on a true line bet. secs. 12 and 13.
Through dense pine timber, and underbrush
1.10 Spring branch 3 lks. wide in ravine, course S.E.
Steep ascent.
38.00 Top of steep ascent brs. N.W. and S.E. Ascend more gradually
40.09 Set a quartzite stone 16 x 12 x 4 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which

Subdivisions T. 22 N. R. 30 W.

Chain	a pine 12 ins. diam., brs. N. 14° 15' W. 32 lks. dist., marked +4 S. 12 B T. a pine 10 ins. diam., brs. S. 32° 30' W. 25 lks. dist., marked +4 S, 3 B T.
80.16	The cor. to secs. 11, 12, 13 and 14. Land, mountainous. Soil, rocky; 3" and 4" rate. Timber, pine and aspen. Mountainous and heavy timbered land. 80.16 chs. Sept. 10: at this cor. I set my 5° 11' W., on the decl. arc; and at 11 h. 5 m. a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40° 35'

	N. 0° 1' W. bet. secs. 11 and 12. Through heavy timber and over mountainous land.
9.00	Descend into cañon.
40.00	Set a quartzite stone 16 x 9 x 5 ins., 11 ins. in the ground for 1/4 sec. cor., marked +4 on W. face; from which a pine 6 ins. diam., brs. N. 24° E., 17 lks. dist., marked +4 S. 12 B T. a pine 7 ins. diam., brs. N. 78° W. 26 lks. dist., marked +4 S. 11 B T.
42.50	Spring branch 3 lks. wide in cañon, course S. E. Ascend steep slope.
80.00	Set a quartzite stone 17 x 9 x 6 ins., 12 ins. in the ground for cor. to secs. 1, 2, 11, and 12, marked with 5 notches on S. and 1 notch on E. edge; from which

Subdivisions T.2N. R.3W.

Chains A pine 7 ins. diam., brs. N.15°E., 56 lks. dist., marked T2NR3W. S1BT.
A pine 5 ins. diam., brs. S.62°E., 19 lks. dist., marked T2NR3W. S12BT.
A pine 12 ins. diam., brs. S.22°W., 35 lks. dist., marked T2NR.3W. S.11BT.
A pine 10 ins. diam., brs. N.10°W., 29 lks. dist., marked T2NR3W S.2BT.
Land, mountainous. (Ascent more gradual.)
Soil, stony, 3' and 4" rate.
Timber, pine and aspen.
Mountainous and heavy timbered land 80.00 chs.
Sept. 10, 1903.

Sept. 11; at 7h 00m a.m. l.m.t., I set off 40°36' on the lat arc., 4°55' N. on the decl. arc; and determine a meridian at the cor. of secs. 1, 2, 11, and 12; thence I run
N.89°54' E. on a random line bet secs. 1 and 12.
40.00 Set temp. 1/4 sec. cor.
80.10 Intersect E. Bdy. of Tp. 7 lks. N. of cor. of secs. 1, 6, 7 and 12, heretofore described.
Thence I run
S.89°57' W. on a true line bet. secs. 1 and 12.
Through dense pine timber along S. slope of ridge.
40.05 Set a quartzite stone 15 X 10 X 5 ins., 10 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which

Subdivisions T. 2 N. R. 3 W.

Chains	A pine 10 ins. diam., brs. N. 50° E. 19 lks. dist., marked 1/4 S 1 B T.
	A pine 7 ins. diam., brs. S. 16° W., 28 lks. dist., marked 1/4 S. 12 B T.
80.10	The cor. of secs. 1, 2, 11, and 12. Land, mountainous. Soil, stony; 3" rate. Timber, pine and aspen. Mountainous and heavy timbered land 80.10 chs. Sept. 11: Sky overcast at noon; impossible to take observation for lat.
	N. 0° 1' W. on a random line bet. secs. 1 and 2.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect N. bdy. of Tp. 13 lks. W. of cor. of secs. 1, 2, 35, and 36, heretofore described. Thence I run S. 0° 5' W. on a true line bet. secs. 1 and 2. Ascend steep slope through heavy pine timber.
39.96	Set a quartzite stone 17 X 9 X 5 ins., firmly in a mound of stones for 1/4 sec. cor., marked 1/4 on W. face; from which A pine 10 ins. diam., brs. N. 69° E. 15 lks. dist., marked 1/4 S 1 B T. A pine 8 ins. diam., brs. S. 75° W. 30 lks. dist., marked 1/4 S 2 B T.
43.00	Top of ascent. Ridge brs. E and W. Descend gradually
79.96	The cor. of secs. 1, 2, 11, and 12.

Subdivisions T. 2 N. R. 30 W.

Claims	Land, mountainous. Soil, rocky; 4" rate. Timber pine and fir. Mountainous and heavy timbered land, 79.90 chs. Sept. 1913.
	Sept. 12. At 8h 00m a.m. I.M.T. set off 40°32' on the lat. arc, 4°30' N. on the decl. arc, and determine a meridian at the cor. of secs. 2, 3, 34 and 35 on the S. bd. of the [illegible], which is a quartzite [illegible] 7 [illegible] ins. above ground, marked and witnessed as described by the surveyor general.
	Thence Trum. N. 0°2' W. wet secs. 34 and 35. Over rolling land, through dense sage brush.
27.00	Ascend steep slope. Enter scattering timber
40.00	Set a sandstone 20 x 10 ins. firmly in a mound of stones on 4 sec. cor., marked 1/4 on W. face, from which a cedar [illegible] ins. diam. brs. S. 64°30' E. 98 lks. dist., marked 1/4 S 35 B.T. a cedar 4 ins. diam. brs. S. 65° W. 25 lks. dist., marked 1/4 S. 34 B.T.
52.00	West point of mountain. Top of ascent. Descend N. W. slope.
79.85	Dry ravine, course S. W.
80.00	Set a quartzite stone 16 x 11 x 5 ins., 11 ins. in the ground for cor. of secs. 26, 27, 34 and 35

Subdivisions T.2N.R.3W.

Chains marked with 1 notch on S. and 2 notches on E. edge; from which

A pine 36 ins. diam. brs. N 68° E., 155 lks. dist., marked T2NR.3W. S26BT.

No other trees available; therefore I raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Land, rolling and mountainous.

Soil, sandy and rocky, 2" to 4" rate.

Timber, pine, aspen, cedar; sagebrush under growth.

Mountainous land or covered with dense undergrowth 80.00 chs.

East on a random line bet. secs. 26 and 35.

40.00 Set temp. ¼ sec. cor.

80.30 Intersect N. and S. line 8 lks. N. of cor. of secs. 25, 26, 35, and 36. Thence Gunn

N. 89° 57' W. on a true line bet. secs. 26 and 35.

Over mesa, through dense sagebrush.

40.15 Set a quartzite stone 18 X 10 X 6 ins., 12 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.

Pits impracticable

43.00 Leave mesa. brs. N.W. and S.E. Descend across head of ravine.

67.00 Ridge brs. N.E. and S.W.

Subdivisions T. 2 N. R. 3 W.

Chains Descend.
79.70 Dry ravine, course S.W.
79.90 Leave ravine and scattering timber therein.
80.30 The cor. of secs. 26, 27, 34 and 35.
Land mountainous.
Soil, stony, 3" rate.
Timber, pine and aspen; dense sage brush.
Mountainous land or covered with dense undergrowth 80.30 chs.
Sept 12; Sky overcast at noon; impossible to take observation for lat.

N. 0°2' W. bet. secs. 26 and 27.
Ascend over mountainous land.
11.80 Head of draw course S.E.
23.00 Spur projects S.E.
Along E. slope of ridge
40.00 Set a quartzite stone 16 x 12 x 6 ins., firmly in a mound of stone 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.
43.00 Ridge brs. N.E. and S.W.
Descend. Enter scattering timber
65.25 Draw, course S.W. Ascend
73.00 Ridge, brs. N.E. and S.W.
Descend.
79.85 Ravine, course S.W. Ascend.
80.00 Set a quartzite stone 14 x 10 x 8 ins. 9 ins. in the ground for the cor. of secs. 22, 23, 26 and 27, marked with 2 notches on S. and E. edge, from which

Subdivision T.2N.R.3W.

Claim	a pine 3 ft. diam. brs. N. 44° 30' E., 320 lks. dist. marked T2N R3W S23 BT.
	An aspen 6 ins. diam. brs. S. 41° E., 140 lks. dist. marked T2N R3W S26 BT.
	An aspen 6 ins. diam. brs. S. 47° 30' W., 90 lks. dist. marked T2N R3W S27 BT.
	A pine 14 ins. diam. brs. N. 41° 30' W., 225 lks. dist. marked T2N R3W S22 BT.
	Land, mountainous.
	Soil, rocky; 3" rain.
	Timber, aspen, pine, cedar.
	Mountainous landmarks.

	S. 89° 57' E. on a random line bet. secs. 23 and 26
40.00	Set temp. ¼ sec. cor.
60.25	Intersect N. and S. line 16 lks. S. of cor. of secs. 23, 24, 25, and 26.
	Thence run S. 89° 56' W. on true line bet. secs. 23 and 26.
	Along S. slope of spur.
20.00	Radius course S.E.
	Scattering timber along ravine. Ascend.
40.25	Set a quartzite stone 17x11x9 ins. firmly in a mound of stone 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.
42.00	Ridge brs. N. and S. Descend.
45.00	Enter heavy pine timber brs. N. and S.

Subdivision T. 22 N., R. 30 W.

Chains	
52.00	Ravine, course S. Ascend.
60.00	Ridge bns. N. and S. Descend.
76.00	Ravine, course S. W. Ascend.
80.25	The cor. of secs. 22, 23, 26, and 27.
	Land, mountainous.
	Soil, rocky, 3" rate.
	Timber, pine and aspen.
	Sagebrush and brush grass.
	Mountainous or heavily timbered land, or covered with dense undergrowth 80.25 chs.
	Sept. 12, 1913.

Sept. 13: N. 0° 2' W. bet. secs. 22 and 23, ascend through scattering timber.

30.00	Enter heavy timber bns. N. E. and S. W.
35.00	Spur of ridge projects S. E. along E. slope of ridge.
40.00	Set a quartzite stone 16 x 9 x 8 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face, from which a pine 36 ins. diam., bns. N. 7° 30' W., 31 lks. dist., marked 1/4 S 22 B T.
	a pine 14 ins. diam., bns. S. 45° E., 96 lks. dist., marked 1/4 S 23 B T.
79.00	Ridge bns. N. E. and S. W.
80.00	Set a quartzite stone 16 x 10 x 6 ins., 11 ins. in the ground for the cor. of secs. 14, 15, 22, and 23, marked with 3 notches on S. and 2 notches on E. edge, from which
	An aspen 4 ins. diam., bns.

Subdivisions T.2N.R.3W.

Chains N. 42°E., 38 lks. dist., marked T2NR3W. S.14BT.
A pine 36 ins. diam., brs. S.16°E., 110 lks. dist., marked T2NR3W S23BT.
An aspen, 5 ins. diam., brs. S.71°30'W., 57 lks. dist., marked T2NR3W S22BT.
A pine 10 ins. diam., brs. N.27°30'W., 53 lks. dist., marked T2NR3W S15BT.
Land, mountainous.
Soil rocky; 3" and 4" rate.
Timber, pine and aspen.
Sage brush undergrowth.
Mountainous or heavily timbered land 80.00 chs.

Sept. 13: At 10h 0m a.m., l.m.t., I set off 40°34'N. on lat. arc, 4°05'N. on the decl. arc, and determine a meridian at the cor. of secs. 14, 15, 22 and 23 thence I run N.89°56'E. on a random line bet. secs. 14 and 23.

40.00 Set temp. 1/4 sec. cor.

80.38 Intersect. N. and S. line at cor. of secs. 13, 14, 23, and 24.
Thence I run S.89°56'W. on a true line bet. secs. 14 and 23.
Ascend through heavy pine and aspen timber.

7.00 Ridge brs. N. and S. Descend.

24.00 Ravine, course S. Ascend.

36.00 Ridge brs. N. and S. Descend.

40.19 Set a quartzite stone 16 x 10 x 4 ins. firmly in a mound of stone

Subdivisions T. 2 N., R. 3 W.

Chain for ¼ sec. cor., marked on N. face, from which
a pine 10 in. diam., bears
N. 5° 30' E., 29 lks. dist., marked
¼ S. 14 B. T.
a pine 5 in. diam., bears
S. 44° E., 40 lks. dist., marked
¼ S. 23 B. T.
62.10 Ravine course S. and
79.00 Ridge, bears N. E. and S. W.
80.38 The cor. to secs. 14, 15, 22, and 23.
Land mountainous.
Soil, stony; 3" rate.
Timber, pine and aspen,
Mountainous and heavily timbered land 80.38 chs.
Sept 13: Sky overcast at noon; impossible to take observation for lat.

N. 0° 12' W. bet. secs. 14 and 15.
descend through heavy pine and aspen timber, and dense undergrowth.
40.00 Set a granite stone 16 x 14 x 10 ins. firmly in a mound of stone for ¼ sec. cor., marked ¼ on W. face; from which
a pine 10 ins. diam., bears
N. 24° 30' W., 14 lks. dist., marked
¼ S. 15 B. T.
an aspen 5 ins. diam., bears
S. 73° 30' E., 33 lks. dist., marked
¼ S. 14 B. T.
72.00 Ravine course S. W. and
80.00 Set a granite stone 16 x 10 x 5 ins. firmly in a mound of stones for cor. to secs. 10, 11, 14 and 15, marked with

Subdivisions T.2N.R.3W.

Claims 4 notches on S. and 2 notches on E edge; from which
A pine 20 ins. diam., brs. N.35°E., 16 lks. dist., marked T2N R3W S11 BT.
A pine 30 ins. diam., brs. S.45°E., 17 lks. dist., marked T2N R3W S14 BT.
An aspen 5 ins. diam., brs. S.49°W., 21 lks. dist., marked T2N R3W S15 BT.
An aspen 6 ins. diam., brs. N.27°30'W., 45 lks. dist., marked T2N R3W S10 BT.
Land, mountainous.
Soil, stony; 3" and 4" rate.
Timber, pine and aspen.
Mountainous and heavy timbered land 80.00 chs.

N.89°56'E. on a random line bet. secs. 11 and 14.
40.00 Set temp. 1/4 sec. cor.
80.32 Intersect N. and S. line 5 lks. N. of cor. of secs. 11, 12, 13, and 14.
Thence Irun
S.89°58'W. on a true line bet. secs. 11 and 14.
Over mountainous land through heavy timber. Ascend E. slope of ridge.
40.16 Set a quartzite stone 18 X 12 X 7 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face, from which
An aspen 6 ins. diam., brs. S14°30'W., 16 lks. dist., marked 1/4 S14 BT.
An aspen 4 ins. diam., brs.

Subdivisions T. 2 N. R. 3 W.

Chain	N. 6° W., 30 lks. dist., marked 1/4 S 11 B T.
46.00	Ridge brs. N. and S. Descend.
74.00	Ravine in cañon, course S. W. Ascend.
80.32	The cor. to secs. 10, 11, 14, and 15. Land, mountainous. Soil, stony; 3" and 4" rate. Timber, pine and aspen. Mountainous and heavy timbered land 80.32 chs.

Sept. 13, 1913.

Sept. 14; N. 0° 2' W. bet. secs. 10 and 11.

Ascend steep rocky slope through pine and aspen timber.

40.00 Set a quartzite stone 14 x 8 x 6 ins., 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which an aspen 7 ins. diam., brs. S. 5° W., 19 lks. dist., marked 1/4 S 10 B T.

a pine 5 ins. diam., brs. N. 5° 2° E., 6.5 lks. dist., marked 1/4 S 11 B T.

48.00 Ridge brs. E. and W. Descend.

67.00 Leave pine timber. Enter burned district, brs. E. and W.

80.00 Set a quartzite stone 16 x 10 x 6 ins., 11 ins. in the ground for cor. to secs. 2, 3, 10, and 11, marked with 5 notches on S. and 2 notches on E. edge; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.

Site impracticable.

Land, mountainous.

Subdivisions T. 2 N. R. 3 W.

Chains | Soil, stony 3"4" rate.
Timber pine and aspen, burned timber.
Mountainous and heavy timbered land 80.00 chs.

Sept. 14; at 10h 0m a.m. l.m.t., I set off 40°36' on the lat. arc; 3° 42' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10, and 11, thence I run N. 89°58' E. on a random line bet. secs. 2 and 11.

40.00 Set temp. 1/4 sec. cor.

80.24 Intersect N and S. line at the cor. of secs. 1, 2, 11, and 12.
Thence I run S. 89°58' W. on a true line bet. secs. 2 and 11.
Descend through heavy pine timber.

40.12 Set a quartzite stone 17 X 9 X 5 ins. firmly in a mound of stones for 1/4 sec. cor., marked 1/4 on N. face; from which
a pine 7 ins. diam. brs. N. 17° E. 29 lks. dist., marked 1/4 S. 2 B T.
a pine 6 ins. diam. brs. S 20° W. 25 lks. dist., marked 1/4 S 11 B T.

48.30 Cañon course S.E. ascend.

72.00 Leave live timber. Enter burned district brs. N and S.

80.24 The cor. of secs. 2, 3, 10, and 11.
Land mountainous.
Soil, rocky; 4" rate.
Timber pine and fir; and burned timber.

Subdivisions T. 2 N. R. 3 W.

Chains Mountainous and heavy timbered land 80.24 chs.
Sept 14; at this cor. I set off 3.40 N. on the decl. arc; and at 11h 58m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40°36' N

N. 0°2' W. on a random line bet. secs. 2 and 3.
40.00 Set temp. 1/4 sec. cor.
80.04 Intersect N. bdy. of Tp. 2 lks. E. of cor. of secs. 2, 3, 34 and 35, heretofore described.
Thence I run
S. 0°3' E. on a true line bet. secs. 2 and 3.
Descend through heavy timber, (pine).
25.00 Draw course S.E., ascend.
40.04 Set a quartzite stone 14 x 8 x 5 ins. 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
A pine 10 ins. diam., brs. N. 82° E., 18 lks. dist., marked 1/4 S. 2 B T.
A pine 10 ins. diam., brs. N. 27°31' W. 30 lks. dist., marked 1/4 S. 3 B T.
41.00 Ridge brs. E. and W. Descend.
Leave live timber and enter burned district brs. N.W. and S.E.
79.90 Head of draw course N.E.
80.04 The cor. of secs. 2, 3, 10, and 11.
Land mountainous.
Soil, stony; 4" rate.
Timber pine and fir, and burned timber.

Subdivisions 2 N. R. 3 W.

Chains	Mountainous and heavy timbered land 80.04 ch. Sept. 14, 1903
	Sept. 15: At 8h 0m a.m. l.m.t., I set off 40°32' on the lat. arc; 3°21' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33 and 34; which is a trachyte stone 10X6X6 ins. above ground marked and witnessed as described by the surveyor general.
	Thence I run
	N. 0°2' W. bet. secs. 33 and 34.
	Over rolling land through heavy timber.
8.00	Leave heavy timber brs. N. W. and S. E.
	Through scattering timber and dense sage brush.
15.00	Leave timber brs. N. W. and S. E.
40.00	Set a quartzite stone 14X10X8 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 1 1/2 ft. high W. of cor.
	Pits impracticable.
60.50	Old road to old government saw mill brs. N. W. and S. E.
62.00	Begin steep ascent, brs. N. W. and S. E.
74.00	Top of mountain brs. N. W. and S. E. Descend
80.00	Set a quartzite stone 18X10X6 ins., firmly in a mound

Subdivision T. 2 N. R. 3 W.

Claim. Bstone for cor. to secs. 27, 24, 33, and 34, marked with 1 notch on S. and 3 notches on E. edge; and raise a mound of stone 2 ft. base, 1½ ft. high over cor.

Pits impracticable.

Land, rolling and mountainous.

Soil, sandy and rocky; 3rd and 4th rate.

Timber, pine and aspen.

Sagebrush and bunch grass.

Mountainous or heavily timbered land, or covered with dense undergrowth of rocks.

East on a random line bet. secs. 27 and 34.

40.00 Set temp. ¼ sec. cor.

00.16 Intersect N. and S. line 3 lks. S. of cor. to secs. 26, 27, 34, and 35.

Thence from said point S. 89° 59' W. on a true line bet. secs. 27 and 34. Descend.

F. 35 Ravine course S.E. Ascend.

F. 50 Old pack trail bears N.E. and S.W.

21.00 Top of ridge bears N. and S. Descend.

38.50 E. fork Dry Gulch course S.E. Enter scattering timber bears N.W. and S.E. Ascend.

40.08 Set a sandstone 16 x 10 x 6 ins., 11 ins. in the ground for ¼ sec. cor. marked ¼ on N. face, from which

an aspen 5 ins. diam. bears S. 13° W. 32 lks. dist., marked ¼ S. 34 T.

a cottonwood 4 ins. diam.

Subdivision T. 22 N. R. 3 W.

Chains	brs. N. 62° E. 18 lks. dist., marked ¼ S 27 B.T.
41.00	Mark, course S.E.
43.00	Leave timber brs. N. and S.
50.16	The cor. secs. 27, 22, 33, and 34.
	Land, mountainous.
	Soil, sandy and rock, 3" and 4" rate.
	Timber, willow, aspen, cottonwood, and pine.
	Mountainous land 50.16 chs.
	Sept. 15; Sky overcast at noon; impossible to take observation for lat.

	N. 0° 2' W. bet. secs. 27 and 22.
	Descend.
32.00	Fort 7 steps descend and enter aspen thicket brs. N.E. and S.W.
39.00	Mark, course S.E. Ascend.
40.00	Set a quartzite stone 16 x 6 x 4 ins., firmly in a mound of stone for ¼ sec. cor., marked ¼ on W. face; from which an aspen 6 ins. diam., brs. N. 15° E. 46 lks. dist., marked ¼ S. 27 T.
	an aspen 6 ins. diam., brs. N. 68° W. 43 lks. dist., marked ¼ S 22 T.
55.50	To junction. Descend.
56.00	Leave thicket brs. N.W. and S.E.
59.00	E. fork Dry Gulch, course S.E. Ascend.
80.00	Set a quartzite stone 16 x 10 x 10 ins., firmly in a mound of stone for cor. secs. 21, 22, 27 and 28, marked with 2 notches on S. and 3 notches on E. edge, and raise a mound of stone.

Subdivisions T2N. R.3W.

Claims 2 ft. base 1½ ft. high W. of cor.
Land, mountainous.
Soil, rocky; 3" and 4" rate.
Timber, pine and aspen.
Mountainous or densely timbered land 80.00 chs.

N. 89°59' E. on a random line bet. secs. 22 and 27.
40.00 Set temp. ¼ sec. cor.
80.28 Intersect N. and S. line 3 lks. N. of cor. of secs. 22, 23, 26 and 27.
Thence Trun
West on a true line bet. secs. 22 and 27.
Ascend through heavy timber.
10.00 Spur projects S.W. Descend.
13.85 Ravine course S. Ascend.
37.00 Ridge brs. N. and S. Descend
40.14 Set a quartzite stone 14X10X6 ins. firmly in a mound of stone for ¼ sec. cor., marked ¼ on N. face; from which
a pine 6 ins. diam. brs. S. 19° E., 64 lks. dist., marked ¼ S 27 BT.
A pine 24 ins. diam. brs. N. 20° E., 25 lks. dist., marked ¼ S. 22 BT.
70.00 Leave pine and aspen timber brs. N. and S.
80.28 The cor. of secs. 21, 22, 27 and 28.
Land, mountainous.
Soil, rocky; 3" rate.
Timber, pine and aspen.
Mountainous or heavy timbered land 80.28 chs.

Sept. 15, 1903.

Subdivisions T.2N.R.3W.

Chains	Sept. 16; at 8h 10m a.m. l.m.t. set off 40°33' N. on the lat. arc; 2°58' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 21, 22, 27, and 28. Thence I run N. 0°2' W. bet. secs. 21 and 22. Ascend. Through dense sage brush.
20.00	Ridge brs. E. and W. Descend.
21.00	Enter aspen thicket brs. E. and W.
40.00	Set a quartzite stone 18X12X3 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which An aspen 4 ins. diam. brs. S. 22° W. 13 lks. dist., marked 1/4 S. 21 BT. A pine 30 ins. diam. brs. N. 46° E. 152 lks. dist., marked 1/4 S. 22 BT.
43.40	Hillside drain, course S.W. Ascend.
58.00	Spur, projects S.W. Descend.
80.00	Set a quartzite stone 16X10X6 ins., 11 ins. in the ground for cor. of secs. 15, 16, 21, and 22, marked with 3 notches on S. and E. edge; from which An aspen 6 ins. diam. brs. N. 65°30' E. 27 lks. dist., marked T2NR3W S15 BT. An aspen 6 ins. diam. brs. S. 45° E. 90 lks. dist., marked T2NR3W S22 BT. An aspen 4 ins. diam. brs. S. 11° W. 85 lks. dist., marked T2NR3W. S21 BT. An aspen 5 ins. diam. brs. N. 71° W. 117 lks. dist., marked T2NR3W. S16 BT. Land, mountainous.

Subdivisions T. 2 N. R. 3 W.

Chains	Soil, stony; 3" rate.
	Timber aspen.
	Sage brush undergrowth.
	Mountainous and densely timbered land or covered with dense undergrowth 80.00 chs.
	East on a random line bet. secs. 15 and 22.
40.00	Set temp. 1/4 sec. cor.
80.30	Intersect N. and S. line, 5 lks. S. of cor. of secs. 14 15 22 and 23
	Thence I run S. 89°58' W. on a true line between secs. 15 and 22. Descend through heavy pine timber.
20.00	Spring branch 3 lks. wide in ravine, course S. Ascend.
32.00	Ridge brs. N. and S. Descend.
38.50	Ravine, course S. Ascend.
40.15	Set a quartzite stone 14 X 10 X 10 ins., 9 ins., in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	A pine 18 ins. diam., brs. S. 23°15' W., 224 lks. dist., marked 1/4 S. 22 B.T.
	A pine 36 ins. diam., brs. N. 86°30' W., 83 lks. dist., marked 1/4 S. 15 B.T.
48.00	Ridge brs. N. and S. Descend.
58.00	Head of draw, course S. Ascend.
69.00	Ridge brs. N. and S.
	Leave heavy timber.
	Steep descent through scattering aspens and dense sage brush.
78.00	Enter aspen thicket brs. N. and S.
80.30	The cor. of secs. 15, 16, 21, and 22.
	Land, mountainous.
	Soil, stony; 3" and 4" rate.

Subdivisions T. 2 N. R. 3 W.

Chains

Timber, pine and aspen.
Sage brush undergrowth.
Mountainous land densely timbered, or covered with dense undergrowth 80.30 chs.
Sept. 16; at this cor. I set off 2°54' N. on the decl. arc, and at 11h 50m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40°34'.

N. 0°2' W. bet. secs. 15 and 16.
Descend through aspen thicket.

29.00 Ravine course W. Ascend.
38.00 Spur projects W.
40.00 Set a quartzite stone 14x12x4 ins., 9 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
An aspen 4 ins. diam., brs. S. 48°30' W., 39 lks. dist., marked 1/4 S 16 BT.
An aspen 5 ins. diam., brs. N. 53°30' E., 16 lks. dist., marked 1/4 S. 15 BT.
53.00 Head of ravine, drs. S W.
63.00 Spur brs. W.
Enter heavy pine and fir timber brs. N. W. and N. E.
78.00 Ravine, course S. W.
80.00 Set a quartzite stone 14x12x5 ins., 9 ins. in the ground for the cor. of secs. 9, 10, 15 and 16, marked with 4 notches on S. and 3 notches on E. edge; from which
A pine 12 ins. diam., brs. N. 53°30' E., 37 lks. dist., marked T 2 N R 3 W. S 10 BT.

Subdivisions T2NR3W.

Chains. A pine 36 ins. diam., brs. S 52°45' E., 65 lks. dist., marked T2NR3WS15BT.
A pine 16 ins. diam., brs. S 59° W., 76 lks. dist., marked T2NR3WS16BT.
A pine 14 ins. diam., brs. N. 5° W., 30 lks. dist., marked T2NR3WS9BT.
Land, mountainous.
Soil, rocky; 3" rate.
Timber, pine, aspen, and fir.
Mountainous and heavy timbered land 80.00 chs.

N. 89°58' E. on a random line vet. secs. 10 and 15.
40.00 Set temp. ¼ sec. cor.
80.22 Intersect N. and S. line 18 lks. S. of cor. of secs. 10, 11, 14, and 15.
Thence from
S. 89°50' W. on a true line vet. secs. 10 and 15
Ascend through heavy timber
30.00 Ridge brs. N. and S. Descend.
40.11 Set a granite stone 15 x 11 x 4 ins., 10 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
A pine 10 ins. diam., brs. N. 3° E., 43 lks. dist., marked ¼ S10BT.
A pine 8 ins. diam., brs. S. 29°30' W., 25 lks. dist., marked ¼ S15BT.
77.00 Ravine, course S. W.
80.22 The cor. of secs. 9, 10, 15, and 16.
Land, mountainous.
Soil, stony; 3" rate.

Subdivisions T. 2 N. R. 3 W.

Chains	Timber, pine, aspen, and fir. Mountainous and heavy timbered land 80.22 chs. Sept. 16, 1903.
	Sept. 17; at 8h 0m a.m., l.m.t., I set off 40°35' on the lat arc; 2°35' N. on the decl. arc; and determine a meridian with a solar at the cor. of secs. 9, 10, 15, and 16. Thence Trun N. 0°2' W. bet. secs. 9 and 10. Steep ascent through heavy pine timber.
8.00	Top of steep ascent brs. E. and W. along W. slope of ridge
40.00	Set a quartzite stone 15x12x6 ins., firmly in a mound of stone for ¼ sec. cor., marked ¼ on W. face; from which a pine 12 ins. diam., brs. N. 37°30' E., 73 lks. dist., marked ¼ S. 10 B.T. A pine 20 ins. diam., brs. N. 19° W. 42 lks. dist., marked ¼ S. 9 B.T.
66.00	Leave green timber brs. E. and W. Enter burned district
66.10	Spring branch 3 lks. wide, course W.
80.00	Set a quartzite stone 16x10x8 ins., firmly in a mound of stone for cor. of secs. 3, 4, 9, and 10; marked with 5 notches on S. and 3 notches on E. edge; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable. Land, mountainous.

Subdivisions T2N R3W.

Chains Soil, stony; 3" and 4" rate.
Timber, pine, fir, and aspen.
Mountainous and heavy timbered land 80.00 chs.

N. 89°50' E. on a random line bet. secs. 3 and 10.
40.00 Set temp. 1/4 sec. cor.
80.20 Intersect N. and S. line 14 lks. N. of cor. of secs. 2, 3, 10, and 11.
Thence I run
S. 89°56' W. on a true line bet. secs. 3 and 10.
Ascend through burned timber.
13.00 Saddle divide brs. N. and S.
38.00 Spur, projects W.
Descend along N.W. slope of spur.
40.10 Set a quartzite stone 14x12x8 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.
65.00 Leave burned district. Enter green timber brs. N. and S.
72.50 Leave green timber and enter burned district brs. N and S.
80.20 The cor of secs. 3, 4, 9, and 10.
Land, mountainous.
Soil, stony; 3" and 4" rate.
Timber, pine and aspen.
Mountainous and heavy timbered land 80.20 chs.
Sept 17; at this cor I set off 2°30' N on the decl. arc; and at 11h 55m a.m., l.m.t., observe the sun

Subdivisions T.2N.R.3W.

Chains	
	on the meridian, the resulting lat. is 40°36'
	N. 0°2' W. on a random line bet. secs. 3 and 4.
40.00	Set temp. 1/4 sec. cor.
80.18	Intersect N. Bdy. of Tp. 2 lks. W. of cor. of secs. 3, 4, 33, and 34 heretofore described,
	Thence Irun
	S. 0°1' E. on a true line bet. secs. 3 and 4.
	Steep rocky ascent through heavy timber.
22.00	Spur projects W. along W. slope of ridge.
40.18	Set a quartzite stone 16 x 14 x 4 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
	A pine 8 ins. diam., brs. N. 72° W., 11 lks. dist., marked 1/4 S. 4 B.T.
	An aspen 5 ins. diam., brs. N. 80°30' E., 22 lks. dist., marked 1/4 S 3 B.T.
58.00	Leave live timber. Enter burned district brs. E. and W.
62.50	Spur projects S.W. Descend.
78.50	Spring branch 5 lks wide, course W. Ascend to
80.18	The cor. of secs. 3, 4, 9, and 10.
	Land, mountainous.
	Soil, stony; 4" rate.
	Timber, aspen, pine, and fir.
	Mountainous and heavy timbered land 80.18 chs.
	Sept. 17, 1903.

Subdivisions T.2N.R.3W.

Chains	Sept 18: at 8h 00m a.m. l.m.t., I set off 40°32' on the lat arc; 2°12' N. on the decl. arc, and determine a meridian at the cor. of secs. 4, 5, 32 and 33, which is a trachyte stone 12×8×6 ins., above-ground, marked and witnessed as described by the surveyor general; thence I run N. 0° 3' W. bet. secs. 32 and 33. Over rolling land through dense sage brush.
3.90	Ravine, course S.E. Ascend.
20.00	Ridge brs. N.W. and S.E. Descend.
40.00	Set a quartzite stone 15×12×6 ins., firmly in a mound of stone for ¼ sec. cor., marked ¼ on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable.
43.00	Enter heavy pine timber brs. N.W. and S.E.
80.00	Set a quartzite stone 18×12×6 ins., firmly in a mound of stone for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edge; from which
	A pine 36 ins. diam., brs. S 52°30' W., 7 lks. dist., marked T2NR3W S32BT.
	A pine 5 ins. diam., brs. S. 76°30' E., 73 lks. dist., marked T2NR3W S33BT.
	A pine 4 ins. diam., brs. N. 61° E., 27 lks. dist., marked T2NR3W S28BT.
	A pine 30 ins. diam., brs. N 38° W., 56 lks. dist., marked

Subdivisions T2NR3W.

Chains

T2NR3W S29 BT.
Land, rolling.
Soil, rocky and sandy; 3" rate
Timber pine and aspen.
Sage brush undergrowth.
Heavy timbered land or dense undergrowth 80.00 chs.

East on a random line bet. secs. 28 and 33.
40.00 Set temp. 1/4 sec. cor.
79.90 Intersect N. and S. line 9 lks. S. of cor. of secs. 27, 28, 33, and 34.
Thence Irun
S. 89°56' W. on a true line bet. secs. 28 and 33.
Descend N.W. slope of mountain.
19.50 Old road to old government saw mill brs. N.W. and S.E.
Foot of descent brs. N.W. & S.E.
Enter rolling land.
29.00 Enter heavy timber brs. N.W. and S.E.
39.95 Set a sandstone 16 x 10 x 8 ins., 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
A pine 30 ins. diam., brs. N. 38° W., 41 lks. dist., marked 1/4 S. 28 BT.
A pine 8 ins. diam., brs. S. 35°30' E., 96 lks. dist., marked 1/4 S. 33 BT.
59.00 West fork Dry Gulch course S.E.
79.90 The cor. of secs. 28, 29, 32 and 33.
Land rolling and mountainous
70.40 / 9.50 Soil, sand and rocky; 3" and 4" rate.
Timber, pine and aspen.
Mountainous or heavy timbered land 70.40 chs.

Chains	
	Sept. 18: Sky overcast at noon; impossible to take observation for latitude.
	N. 0° 3' W. bet. secs. 28 and 29. Over rolling land, through heavy timber.
20.75	Pole fence brs. E. and W.
26.50	Gulch, course S. E.
30.00	Site of old Govt. saw mill on line.
31.00	Spring in gulch 1.00 ch. E. of line.
33.50	West fork Dry Gulch, course S. E. Leave heavy timber, and enter springy meadow land, used by the Indians for pasture.
40.00	Set a quartzite stone 14 X 10 X 8 ins. 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; dig pits 18 X 18 X 12 ins. N. and S. of cor. 3 ft. dist., and raise a mound of earth 3½ ft. base 1½ ft. high W. of cor.
54.00	Leave pasture and enter heavy timber brs. N. W. and S. E. Ascend.
80.00	Set a quartzite stone 16 X 10 X 10 ins., 11 ins. in the ground for cor. of secs. 20, 21, 28, and 29, marked with 2 notches on S. and 4 notches on E. edge; from which
47.50 / 28.50	A pine 35 ins. diam., brs. N. 17° E. 194 lks. dist., marked T 2 N R 3 W S 21 B T.
	A pine 36 ins. diam., brs. S. 25 E., 95 lks. dist. marked T 2 N R 3 W S. 28 B T.
	A pine 34 ins. diam., brs. S. 23° 30' W., 78 lks. dist., marked

Subdivisions T.2N.R.3W.

Chains	
	T2N R3W S 29 BT.
	A pine 35 ins. diam. brs. N.74°30'W. 135 lks. dist. marked T2N R3W. S20 BT.
	Land, level and rolling.
	Soil, sand and rocky; 2" and 3" rate.
	Timber, pine and aspen.
	Heavy timbered land 59.50 chs.
	N. 89°56' E. on a random line bet. secs. 21 and 28.
40.00	Set temp. ¼ sec. cor.
79.78	Intersect N. and S. line 18 lks. N. of cor. of secs. 21, 22, 27, and 28.
	Thence Irun
	N. 89°56' W. on a true line bet. secs 21 and 28.
	Descend W. slope of mountain.
19.00	East fork, Dry Gulch course S.E.
	Ascend through aspen thicket and pine timber brs. N.W. and S.E.
39.89	Set a quartzite stone 14X10X7 ins. 9 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; from which
	A pine 14 ins. diam. brs. S.16°E. 43 lks. dist. marked ¼ S. 28 BT.
	A pine 36 ins. diam. brs. N. 31° W. 54 lks. dist. marked ¼ S. 21 BT.
62.00	Top of ridge brs. N. and S.
	Descend.
76.00	Gulch, course S. - Ascend.
79.78	The cor. of secs. 20, 21, 28, and 29.
	Land, mountainous.
	Soil, sand and rocky; 2" to 4" rate.
	Timber, pine and aspen.

Subdivisions T. 2 N. R. 3 W.

Claims Mountainous or heavy timbered land. 79. 78. ch.
Sept. 18, 1903

Sept. 19, 1903; at 8h 00m a.m. l.m.t., I set off 40°33' on the lat. arc; 1°49½' on the decl. arc; and determine a meridian at the cor. of secs. 20, 21, 28 and 29. thence I run N. 0°3' W. bet. secs. 20 and 21.
Ascend through heavy timber.

35.00 Begin very steep ascent brs. N. W. and S. E.

40.00 Set a quartzite stone 16 x 14 x 4 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, from which
A pine 40 ins. diam., brs. S. 23°30' E., 172 lks. dist., marked ¼ S. 21 BT.
A pine 30 ins. diam., brs. N. 59°30' W., 147 lks. dist., marked ¼ S. 20 BT.

48.00 Top of steep ascent. Across high bench brs. E. and W.

70.00 Begin steep ascent.

78.00 Ridge brs. N. E. and S. W.

80.00 Set a quartzite stone 14 x 12 x 10 ins., 9 ins. in the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E edge; from which
A pine 4 ins. diam., brs. N. 46°30' W., 22 lks. dist., marked T 2 N R 3 W. S 17 BT.
A pine 6 ins. diam., brs. S 66°30' W. 21 lks. dist., marked T 2 N R 3 W S 20 BT.

Subdivisions T.2N. R.3W.

Chains	
	A pine 6 ins. diam., brs. N. 39°30'E., 44 lks. dist., marked T2N R3W S16 BT.
	A pine 30 ins. diam., brs. S. 75°30'E., 31 lks. dist., marked T2N. R3W. S21 BT.
	Land rolling and mountainous. Soil sandy and rocky; 3" and 4" rate. Timber pine and aspen. Mountainous or heavy timbered land 80.00 chs.
	S. 89°56'E. on a random line bet. secs. 16 and 21.
40.00	Set temp. 1/4 sec. cor.
79.88	Intersect N. and S. line 9 lks. S. of cor. of secs. 15, 16, 21, and 22. Thence I run
	West on a true line bet. secs. 16 and 21. Descend through dense aspen thicket.
2.00	Leave thicket brs. N. and S.
8.00	Foot of descent brs. N. and S. Over rolling land.
12.50	Spring branch 3 lks. wide course S.
16.00	Enter aspen thicket brs. N. and S.
22.50	Creek in East fork Dry Gulch 10 lks. wide, course S.
39.94	Set a quartzite stone 16X10X6 ins., 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which
	An aspen 4 ins. diam., brs. S. 13°30'W., 17 lks. dist., marked 1/4 S21 BT.
	An aspen 4 ins. diam. brs. N. 4°W., 56 lks. dist., marked 1/4 S16 BT.

Subdivisions T. 2 N. R. 3 W.

Chains	
	Begin steep ascent brs. N. and S.
75.00	Enter pine and leave aspen brs. N. E. and S. W.
78.00	Ridge brs. N. E. and S. W.
79.88	The cor. of secs. 16, 17, 20, and 21.
	Land rolling and mountainous.
71.88	Soil, sandy and rocky; 2" and 3" rate.
	Timber, pine and aspen.
	Mountainous, heavy timbered land or covered with dense under growth. 71.88 chs.
	Sept. 19; At this cor. I set off 1°44' N. on the decl. arc; and at 11h 50m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 40°34' N.

	N. 0°3' W. bet. secs. 16 and 17.
	Descend through dense growth of young pines.
2.50	Drain, course S. W.
5.00	Ridge brs. N. E. and S. W.
8.00	Small pond or lake, 3 chs. wide and four chains long, fed from spring brs. West.
32.00	Ridge brs. E. and W. Descend.
40.00	Set a quartzite stone 14x10x6 ins., 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; from which
	A pine 6 ins. diam., brs. S. 56°30' W., 20 lks. dist., marked ¼ S. 17 BT.
	A pine 8 ins. diam., brs. S. 58° E. 41 lks. dist., marked ¼ S. 16 BT.
	Ascend.
57.00	Spur of ridge projects E. Descend
62.00	Head of draw, course E. Ascend
71.00	Spur slopes E. Descend.

Subdivision T 2 N R 30 W.

Chains	
76.20	Ravine course E. ascend.
80.00	Set a basalt stone 14 x 12 x 6 ins. 9 ins. in the ground, for cor. to secs. 8, 9, 16, and 17, marked with four notches on S and E edge; from which a pine 6 ins. diam., bears N. 61° 30' E., 87 lks. dist., marked T 2 N R 30 W S 9 B T.
	a pine 10 ins. diam., bears S. 3° 30' E., 134 lks. dist., marked T 2 N R 30 W S 16 B T.
	a pine 7 ins. diam., bears S. 85° 15' W., 140 lks. dist., marked T 2 N R 30 W S 17 B T.
	a pine 7 ins. diam., bears N. 2° 15' W., 113 lks. dist., marked T 2 N R 30 W S 8 B T.
	Land, mountainous.
	Soil, stony; 3rd rate.
	Timber, pine and aspen.
	Mountainous and heavy timbered land to the west.

	East on a random line bet. secs. 9 and 16.
40.00	Set temp. 1/4 sec. cor.
79.94	Intersect N. and S. line 25 lks. W. of the cor. to secs. 9, 10, 15 and 16.
	Thence N. 89° 50' W. on the line bet. secs. 9 and 16,
	Descend through heavy timber
39.99	Set a quartzite stone 16 x 12 x 4 ins., firmly in a mound of stone for 1/4 sec. cor., marked 1/4 on N. face; from which an aspen 4 ins. diam., bears

Subdivisions T. 2 N. R. 3 W.

Chains N. 19°30' E. 28 lks. dist., marked
1/4 S 9 B.T.
An aspen 6 ins. diam., brs.
S. 39°30' E. 10 lks. dist., marked
1/4 S 16 B.T.
61.50 Creek 10 lks. wide in E. fork
Dry Gulch, course S.
Ascend steep slope.
79.98 The cor. of secs. 8, 9, 16, and 17.
Land mountainous.
Soil, rocky, 3" and 4" rate.
Timber, pine, aspen, and fir.
Mountainous and heavy
timbered land 79.98 chs.
Sept. 19, 1903.

Sept. 20: at 7h 02m a.m., l.m.t.,
I set off 40°35' on the lat. arc;
1°28' N. on the decl. arc; and
determine a meridian at
the cor. of secs. 8, 9, 16 and 17.
Thence I run
N. 0°3' W. bet. secs. 8 and 9.
12.00 Spur projects E. Descend.
20.00 Draw, course E. Ascend.
37.00 Spur projects E.
40.00 Set a quartzite stone 17 X 12 X 6
ins., firmly in a mound
of stone for 1/4 sec. cor., marked
1/4 on W. face; from which
A pine 10 ins. diam., brs.
S. 84°30' E., 34 lks. dist., marked
1/4 S 9 B.T.
A pine 7 ins. diam., brs.
S. 24°15' W., 49 lks. dist., marked
1/4 S 8 B.T.
67.00 Spring branch in ravine
3 lks. wide, course S. E. Ascend.
80.00 Set a quartzite stone 16 X 12 X 12
ins., firmly in a mound

Subdivision T. 2 N., R. 3 W.

Chains	2 stone for cor. to secs. 4, 5, 8, and 9, marked with 5 notches on S. and 4 notches on E. edge; from which
	A pine 6 ins. diam., brs. N. 46° 30' E., 15 lks. dist., marked T 2 N R 3 W S 4 B T,
	A pine 4 ins. diam., brs. S. 63° E. 10 lks. dist., marked T 2 N R 3 W S 9 B T,
	A pine 6 ins. diam., brs. S. 75° W. 26 lks. dist., marked T 2 N R 3 W S 5 B T,
	A pine 5 ins. diam., brs. N. 76° 30' W. 36 lks. dist., marked T 2 N R 3 W S 5 B T,
	Land, mountainous. Soil, stony; 3rd and 4th rate. Timber, pine and aspen. Mountainous and heavy timbered land to the south.

	S. 89° 50' E., on a random line bet. secs. 4 and 9.
40.00	Set temp. 1/4 sec. cor.,
50.04	Intersect N. and S. line 3 lks. S. of cor. to secs. 3, 4, 9, and 10,
	Thence from
	N. 89° 50' W. on a true line bet. secs. 4 and 9,
	Descend through burned timber
15.00	Spring branch in ravine 5 lks. wide, course S. W.
	Leave burned timber, enter pine timber brs. N. E. and S. W.
	Ascend,
30.00	Spur, projects S.
40.02	Set a quartzite stone 10 x 11 x 6 ins., 10 ins. in the ground for 1/4 sec. cor., mkd. 1/4 on N. face

Subdivision T. 22 N. R. 30 W.

Chains	from which A pine, 12 ins. diam., brs. N. 7° E., 31 lks. dist., marked ¼ S 4 T. A pine, 8 ins. diam., brs. S. 3° W., 37 lks. dist., marked ¼ S. 9 T.
44.00	Ravine course S. W. ascend.
61.50	Ridge brs. N. and S. descend.
71.00	Ravine in cañon, course S., ascend.
80.04	The cor. of secs. 4, 5, 8, and 9. Land mountainous. Soil, stony; 3" and 4" rate. Timber, pine, aspen, and fir. Mountainous and heavy timbered land 80.04 chs. Sept. 20; Sky overcast most; impossible to take observation for latitude.

N. 0° 3' W. on a random line bet. secs. 4 and 5.

40.00	Set temp. ¼ sec. cor.
80.09	Intersect N. Bdy. of Tp. 5 lks. W. for cor. of secs. 4, 5, 32, and 33, heretofore described. Thence from S. 0° 1' E. on a true line bet. secs. 4 and 5. Ascend steep slope through heavy timber.
4.50	Ridge brs. N. W. and S. E. Steep descent.
40.09	Set a granite stone 12 x 7 x 6 ins. 8 ins. in the ground for ¼ sec. cor., marked ¼ on W. face; from which A fir, 6 ins. diam., brs. N. 6° E., 41 lks. dist., marked ¼ S 4 T.

Subdivisions T. 2 N. R. 3 W.

Chains	A fir 8 ins. diam., brs. N. 32° W., 64 lks. dist., marked 1/4 S. 5 BT. Foot of steep descent.
	Across W. slope of ridge.
70.00	Ridge brs. N. E. and S. W.
80.09	The cor. of secs. 4, 5, 8, and 9.
	Land, Mountainous.
	Soil, rocky; 3" and 4" rate.
	Timber, pine, aspen and fir.
	Mountainous and heavy timbered land 80.09 chs.

Sept. 20, 1903.

Sept. 21: At 8h 00m a.m., l.m.t., I set off 40°32' N. on the lat. arc; 1°02' N. on the decl. arc; and determine the meridian with a solar at the cor. of secs. 5, 6, 31, and 32 on the S. bdy of the Tp. heretofore described.

N. 0°4' W. Let secs. 31 and 32.

Over rolling land through sage brush.

9.00	Leave sage brush and enter heavy timber brs. E. and W.
10.70	Draw course S. E. Ascend.
23.00	Ridge brs. N. W. and S. E. Ascend.
32.00	Ravine course S. E. Ascend.
35.00	Ridge brs. N. W. and S. E.
40.00	Set a quartzite stone 17 X 14 X 6 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
	A pine 10 ins. diam., brs. S. 85°30' E., 60 lks. dist., marked 1/4 S 32 BT.
	A pine 20 ins. diam., brs. S. 57°30' W., 42 lks. dist., marked 1/4 S 31 BT.
53.00	Ravine, course S. E.

Subdivisions T. 2 N. R. 3 W.

Chains

58.00 Ridge vrs. N. W. and S. E. Descend.

68.00 Leave timber vrs. N. W. and S. E.

80.00 Set a quartzite stone 18 x 14 x 10 ins., 12 ins. in the ground for cor. of secs. 29, 30, 31, and 32, marked with 1 notch on S. and 5 notches on E edge; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

Land rolling and mountainous.

Soil, sandy and rocky; 3" rate.

Timber pine and aspen.

Mountainous or heavily timbered land 71.00 chs.

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

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line 9 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence Irun

N. 89°56' W. on a true line bet. secs. 29 and 32.

Over rolling land through heavy timber

40.02 Set a quartzite stone 18 x 12 x 11 ins., 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face; from which

A pine 6 ins. diam., brs. S. 52°30' W., 49 lks. dist., marked ¼ S. 32 BT.

A pine 7 ins. diam., brs. N. 15° E., 59 lks. dist., marked ¼ S. 29 BT.

Leave timber vrs. N. W. and S. E.

71.50 Ravine, course S. E. Trees along

Subdivision T. 2 N. R. 3 W.

Chains	
	ravine.
60.04	The cor. to secs. 29, 30, 31, and 32.
40.02 / 40.02	Land, rolling.
	Soil, sandy, gravelly.
	Timber, pine and aspen.
	Heavy timbered land 40.02 chs.
	Sept. 21: Sky overcast at noon; impossible to take observation for latitude.

	Meet on a random line bet. secs. 30 and 31.
40.00	Set temp. 1/4 sec. cor.
76.92	Intersect W. Bdy. of T. 1 N., R. 1 W. Mer. cor. to secs. 25, 30, 31, and 36, heretofore described.
	Thence from
	N. 89° 52' E. on a true line bet. secs. 30 and 31,
	Through heavy timber, over rolling land.
3.00	Ridge brs. N. W. and S. E.
38.92	Set a sandstone 16 x 10 x 4 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; from which
	An aspen 4 ins. diam. brs. N. 24° W., 16 lks. dist., marked 1/4 S. 30 B. T.
	A pine 8 ins. diam. brs. S. 16° E., 46 lks. dist., marked 1/4 S 31 B. T.
50.00	Ridge brs. N. W. and S. E.
64.00	Leave timber, brs. N. W. and S. E.
76.92	The cor. to secs. 29, 30, 31, and 32.
64 / 14.92	Land, rolling.
	Soil, sandy, gravelly.
	Timber pine and aspen.
	Heavy timber on 64.00 chs.

Subdivisions T2N R.3W.

Chains	
	N. 0°4' W. set. secs. 29 and 30
	Descend over rolling land.
9.30	Ravine, course S.E. Ascend.
40.00	Enter aspen thicket brs. E and W.
	Set a sandstone 14X12X8 ins., 9 ins. in the ground for ¼ sec. cor. marked ¼ on W. face; from which
	An aspen 8 ins. diam, brs. N 88° W. 15 lks. dist, marked ¼ S 30 BT.
	An aspen 6 ins. diam, brs. S. 58° E. 12 lks. dist, marked ¼ S 29 BT
41.50	Leave thicket brs. E. and W.
65.00	Enter pine timber brs. E. and W.
72.00	Ravine, course S.E.
80.00	Set a quartzite stone 16X14X11 ins., 11 ins. in the ground for cor. of secs. 19, 20, 29, and 30, marked with 2 notches on S, and 5 notches on E edge; from which
	A pine 36 ins. diam, brs. S. 84°30' E, 34 lks. dist, marked T2N R3W S29BT.
	A pine 14 ins. diam, brs. N. 30° E, 52 lks. dist, marked T2N R3W S20 BT.
	A pine 32 ins. diam, brs. S. 37°30' W, 65 lks. dist, marked T2N R3W S30BT.
	A pine 7 ins. diam, brs. N. 82°30' W, 47 lks. dist, marked T2N R3W S19BT.
	Land, rolling.
	Soil, sand and rocky; 3" rate.
	Timber, pine and aspen.
	Heavily timbered land 16.50 chs.

Subdivisions T. 2 N. R. 3 W.

Chains	S. 89° 56' E. on a random line bet. secs. 20 and 29.
40.00	Set temp ¼ sec. cor.
80.12	Intersect N. and S. line 2 lks. N. of cor. of secs. 20, 21, 28 and 29.
	Thence Irun
	N. 89° 55' W. on a true line bet. secs. 20 and 29.
	Over rolling land through heavy timber.
4.30	Ravine, course S. E. Ascend.
32.00	Ridge brs. N. W. and S. E. Descend.
39.50	Ravine, course S. E. Ascend.
40.06	Set a sandstone 14 x 8 x 6 ins. 9 ins. in the ground for ¼ sec. cor., marked ¼ on N. face; from which
	A pine 8 ins. diam., brs. N. 16° 30' W., 18 lks. dist., marked ¼ S 20 B.T.
	A pine 36 ins. diam., brs. S 57° 30' W., 24 lks. dist., marked ¼ S 29 B.T.
52.00	Ridge brs. N. and S. Descend.
64.00	Draw course S. Ascend.
80.12	The cor. of secs. 19, 20, 29 and 30.
75.82 / 4.30	Land, rolling and mountainous.
	Soil, sandy and rocky; 3" rate.
	Timber, pine and aspen.
	Mountainous or heavily timbered land 75.82 chs.

	S. 89° 52' W. on a random line bet. secs. 19 and 30.
40.00	Set temp ¼ sec. cor.
78.81	Intersect W. Bdy. of Tp. 5 lks. S of cor. of secs. 19, 24, 25 and 30, heretofore described.

Subdivision T2NR3W.

Chains	
	Descend over rolling land.
3.50	Ravine, course S.E.
	Ascend through thick timber.
38.81	Set a quartzite stone 16x10x6 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which
	An aspen 6 ins. diam., brs. N. 8°30' W., 64 lks. dist., marked 1/4 S. 19 B.T.
	A pine 40 ins. diam., brs. S. 2°30' W., 43 lks. dist., marked 1/4 S 30 B.T.
44.00	Spring branch 3 lks. wide course S.E. Ascend.
62.00	Ridge brs. N. and S. Descend.
78.81	The cor. of secs. 19, 20, 29 and 30.
	Land, mountainous.
75.31 / 3.50	Soil, stony; 3" rate.
	Timber, pine, aspen, and willows.
	Mountainous or heavily timbered land 75.31 chs.
	Sept. 21, 1903.

Sept. 22; At 8h 00m a.m. l.m.t., I set off 40°33' N. on the lat. arc; 0°39' N. on the decl. arc; and determine a meridian at the cor. of secs. 19, 20, 29 and 30.

N 0°4' W. bet. secs. 19 and 20.

Through heavy timber over rolling land.

26.00	Ravine, course S.E.
40.00	Set a quartzite stone 16x10x8 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face; from which
	An aspen 6 ins. diam., brs. S. 82° E. 5 lks. dist., marked

Subdivisions T2N R3W.

Chains	
	¼ S 20 BT.
	An aspen 6 ins. diam., brs. N. 89° W. 32 lks. dist., marked ¼ S 19 BT.
44.00	Ridge brs. N. W. and S. E. Descend
76.00	Ravine, course S. E. Ascend.
80.00	Set a quartzite stone 16x12x4 ins. firmly in a mound of stone for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge; from which
	A pine 40 ins. diam., brs. N. 72° E., 48 lks. dist., marked T2N R3W S 17 BT.
	A pine 40 ins. diam., brs. S. 63° 30' E. 63 lks. dist., marked T2N R3W S 20 BT.
	A pine 44 ins. diam., brs. S. 27° 30' W. 87 lks. dist., marked T2N R3W S 19 BT.
	A pine 48 ins. diam., brs. N. 37° W., 45 lks. dist., marked T2N R3W S 18 BT.
	Land, rolling
	Soil, stony; 3 rate.
	Timber pine and aspen
	Heavy timbered land 80.00 chs.

	S. 89° 55' E. on a random line bet. secs. 17 and 20.
40.00	Set temp. ¼ sec. cor.
80.16	Intersect N. and S. line 11 lks. S. of cor. of secs. 16, 17, 20, and 21.
	Thence Irun.
	West on a true line bet. secs. 17 and 20.
	Over mountainous land through heavy timber
3.00	Ravine, course S. W. Ascend.

Subdivisions T 2 N R 3 W.

Chains	
23.00	Ridge brs. N. and S. Descend.
34.50	Ravine course S.W. Ascend.
40.08	Set a quartzite stone 14x12x8 ins., 9 ins. in the ground for ¼ sec. cor., marked ¼ on N. face, from which
	A pine 8 ins. diam., brs. N. 28°30' E., 13 lks. dist., marked ¼ S 17 BT.
	A pine 6 ins. diam., brs. S. 29° E., 15 lks. dist., marked ¼ S. 20 BT.
41.00	Spur, projects S. Descend.
47.00	Ravine course S. Ascend.
60.00	Ridge brs. N. and S. Descend.
70.30	Ravine course S. Ascend.
79.00	Ridge brs. N. and S.
80.16	The cor. of secs. 17, 18, 19, and 20.
	Land, mountainous.
	Soil, rocky; 3" rate.
	Timber, pine and aspen.
	Mountainous and heavy timbered land 80.16 chs.
	Sept. 22: at this cor. I set off 0°34' N. on the decl. arc; and at 11h 50m a.m. l.m.t. observe the sun on the meridian; the resulting lat. is 40°34'.

	S. 89°54' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. ¼ sec. cor.
78.70	Intersect W. bdy. of Tp. 4 lks. S. of cor. of secs. 13, 18, 19 and 24, heretofore described.
	Thence I run
	N. 89°56' E. on a true line bet. secs. 18 and 19.
	Ascend.

Subdivision T 22 N R 3 W.

Chains	
5.00	Ridge bro. N.W. and S.E. Descend.
14.00	Ravine in canon, course S. Enter dense timber and under brush bro. N. and S. Ascend.
36.00	Ridge bro. N and S.
38.70	Set a quartzite stone 16 X 14 X 10 ins., 12 ins. in the ground and mound 7 stone for 1/4 sec. cor., marked 1/4 on N. face; from which A pine 36 ins. diam., bro. N. 32° 30' E., 25 lks. dist., marked 1/4 S 1 B T. A pine 36 ins. diam., bro. S. 25° 30' W., 36 lks. dist., marked 1/4 S 1 9 B T.
77.75	Ravine, course S.S.W. Ascend.
78.70	The cor. to secs. 17, 18, 19, and 20. Land, mountainous. Soil, rocky; 3" rain. Timber, pine and aspen. Mountainous or heavy timbered land 78.70 chs.

N. 0° 4' W., bet. secs. 17 and 18. Ascend through heavy timber

40.00	Set a quartzite stone 16 X 14 X 6 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which A pine 10 ins. diam., bro. N. 53° 15' W., 14 lks. dist., marked 1/4 S 1 F B T. A pine 6 ins. diam., bro. N. 52° 30' E. 53 lks. dist., marked 1/4 S 1 7 B T.
47.00	Spur, projects S.E. Descend.
52.00	Ravine, course S.E. Ascend.
56.00	Spur, projects S.E. Descend.

Subdivisions T2N R3W.

Chains

60.00 Ravine, course S.E. Ascend.

65.00 Ridge brs. E. and W. Descend.

80.00 Set a quartzite stone 16x12x10 ins., 11 ins. in the ground for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on S. and 5 notches on E. edge; from which

A pine 9 ins. diam., brs. N. 58°30'E. 21 lks. dist., marked T2N R3W S8 BT.

A pine 8 ins. diam., brs. S. 35°E., 62 lks. dist., marked T2N R3W S17 BT.

A pine 8 ins. diam., brs. S. 4°15'W., 40 lks. dist., marked T2N R3W S18 BT.

A pine 5 ins. diam., brs. N. 32°W. 83 lks. dist., marked T2N R3W S7 BT.

Land, mountainous.

Soil, stony; 3" rate.

Timber, pine and aspen.

Mountainous and heavy timbered land, 80.00 chs.

Sept. 22, 1903.

Sept. 23: At 8h 00m a.m., l.m.t., I set off 40°35'N on the lat. arc, 0°16'N on the decl. arc, and determine a meridian at the cor. of secs. 7, 8, 17, and 18.

East on a random line bet. secs. 8 and 17.

40.00 Set temp. 1/4 sec. cor.

80.06 Intersect N. and S. line 11 lks. N. of cor. of secs. 8, 9, 16, and 17.

Thence Irun

N. 89°55'W. on a true line bet. secs. 8 and 17.

Ascend through heavy timber.

Subdivision T 2 N. R. 3 W.

Chains	
11.00	Ridge bns. N. and S. descend more gradually through second growth pines.
40.03	Set a quartzite stone 14 X 12 X 4 ins., 9 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which a pine 10 ins. diam., bns. N. 15° W., 24 lks. dist., marked 1/4 S 1 B T.
	a pine 12 ins. diam., bns. S. 34° W., 82 lks. dist., marked 1/4 S 17 B T.
50.00	Low ridge bns. N. and S. Descend
80.06	The cor. to secs. 7, 8, 17, and 18. Land rolling and mountainous. Soil, rocky; 3" rain. Timber, pine, aspen, fir. Mountainous or heavy timbered land 80.06 chs.

S. 89° 56' W. on a random line bet. secs. 7 and 18

40.00	Set temp. 1/4 sec. cor.
76.80	Intersect W. bdy. T. 2 N., R. 3 W. 16 lks. S. cor. to secs. 7, 12, 13, and 18 heretofore described.

Thence retg. S. 89° 56' E. on a true line bet. secs. 7 & 18. Descend through dense timber.

13.60	Spring branch, in ravine, 3 lks. wide course S. E.
23.70	Spur projects S. E. and
30.30	Ravine, course S. W.
36.60	Set a quartzite stone 15 X 10 X 7 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which a pine 7 ins. diam., bns. N. 86° W., 31 lks. dist., marked

Subdivisions T 2 N R 3 W.

Chains	
	¼ S 7 BT.
	a pine 6 ins. diam., brs. S. 28°30' W., 31 lks. dist., marked ¼ S 18 BT.
45.00	Ridge brs. N. and S. Descend.
73.00	Ravine, course S.W. Ascend.
78.80	The cor. of secs. 7, 8, 17, and 18.
	Land, mountainous.
	Soil, stony; 3" rate.
	Timber, pine and aspen.
	Mountainous and heavy timbered land 78.80 chs.
	Sept. 23: Sky overcast at noon; impossible to take observation for latitude.
	N. 0°4' W. bet. secs. 7 and 8.
	Gradual ascent over bench through dense second growth pines.
40.00	Set a quartzite stone 16x12x10 ins., 11 ins. in the ground for ¼ sec. cor., marked ¼ on W. face, from which
	a pine 8 ins. diam., brs. S. 55° E., 13 lks. dist., marked ¼ S 8 BT.
	a pine 6 ins. diam., brs. N. 55° W., 33 lks. dist., marked ¼ S 7 BT.
72.50	Ridge brs. N.W. and S.E.
76.00	Small lake on line, therefore I make an offset N 89°56' E. 2 chs. to a point, thence ~~[illegible]~~ N. 0°4' W. 4.60 chs. to a point, thence S 89°56' W. 2 chs. back to line, and at
80.60	N. bank of lake brs. E. and W. Set a quartzite stone 15x12x8 ins., 10 ins. in the ground for

Subdivision T 2 N R 3 W.

Chains

W.C. of secs. 5, 6, 7 and 8, marked with 5 notches on S. and E. edge and W.C. on N.E. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable.
No live trees available for bearing trees.
Land, mountainous.
Soil, rocky; 3" and 4" rate.
Timber, pine and aspen.
Mountainous or heavy timbered land 80.60 chs.
Sept. 23, 1903.

Sept. 24. At 8h 00m a.m. l.m.t. Islt off 40°36' on the lat. arc. 0°8' S. on the decl. arc, and determine a meridian with the solar at the W.C. of secs. 5, 6, 7 and 8 which is 60 lks N. 0°04' W. of true cor. [illegible]
From W.C. S. 89°55' E. 1 ch., thence S. 0°6' W. 60 lks., thence S. 89°55' E. on a random line bet. secs. 5 and [illegible] with continuous measurement

40.00 Set temp. ¼ sec. cor.
13.00 Intersect N. and S. line 9 lks. S. of cor. of secs. 4, 5, 8, and 9.
Thence from
N. 89°59' W. on a true line bet. secs. 5 and 8.
Ascend through heavy timber
5.00 Ridge brs. N.E. and S.W.
Descend.
18.30 Ravine course S. Ascend.
23.00 Ridge brs. N. and S. Descend.
40.00 Set a quartzite stone 15 x 12 x 8 ins., 10 ins. in the ground and mound of stone for ¼ sec. cor., marked ¼ on N. face.

Subdivisions T. 2 N. R. 3 W.

Chains from which

An aspen 6 ins. diam., brs. S. 23° E., 82 lks. dist., marked ¼ S 8 BT.

An aspen 6 ins. diam., brs. N. 3° 30' W., 83 lks. dist., marked ¼ S. 5 BT.

40.10 Ravine in canon, course S. E. Ascend.

57.00 Ridge brs. N. W. and S. E. Descend.

60.00 Ravine course S. E. Ascend.

70.00 Spur, projects N.

Leave live timber, enter burned district brs. N. W. and S. E.

79.00 E. bank of lake brs. N. and S.

Set a quartzite stone 18 x 10 x 8 ins. 12 ins. in the ground for W. C. of secs. 5, 6, 7, and 8, marked with 5 notches on S. and E. edge; and W. C. on N. E. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of cor.

Pits impracticable.

No live trees within limits.

Thence N. 0° 1 E. 60 lks., thence S. 89° 59' W. to

80.00 W. C. of secs. 5, 6, 7, and 8. heretofore described.

Land, mountainous.

Soil, stony; 3' rate.

Timber, pine and aspen.

Mountainous and heavy timbered land on 80.00 chs.

Sept. 24: At this W. C. I set off 0° 12' S. on the decl. arc, and at 11h 55m a. m., l. m. t., observe the sun on the meridian; the resulting lat. is 40° 36' N

Subdivisions T2N R3W.

Chains

From W.C. of secs. 5, 6, 7 and 8 bet. secs. 5 and 6, which is 60 lks. N. 0°34' W. of brass cor. to point N. 89°56' W. 3 chs., thence S. 0°4' W. 60 lks., thence N. 89°56' W. on a random line bet. secs. 6 and 7.

40.00 with continuous measurement Set temp. 1/4 sec. cor.

78.70 Intersect W. bdy. of Tp. 5 lks. S. of cor. of secs. 1, 6, 7 and 12, heretofore described.

Thence Grun S. 89°54' E. on a true line bet. secs. 6 and 7.

Ascend through heavy fallen and burned trees.

10.00 Ridge brs. N.W. and S.E.

17.00 Leave burned district, and enter green timber brs. N.W. and S.E.

38.70 Set a quartzite stone 18 x 12 x 6 ins. 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face; from which

A pine 8 ins. diam., brs. S. 20° E. 81 lks. dist., marked 1/4 S 7 BT.

A pine 8 ins. diam., brs. N. 58° W. 12 lks. dist., marked 1/4 S 6 BT.

41.00 Ravine course S.E. Ascend.

64.00 Ridge brs. N.W. and S.E. Descend.

76.00 W. shore of lake, brs. N. and S. Thence N. 0°6' E. 60 lks., thence S. 89°54' E. to

78.70 W.C. of secs. 5, 6, 7, and 8 heretofore described.

Land, ~~[illegible]~~

Soil, stony; 4" rate.

Timber, pine and aspen.

Mountainous and heavy timbered land 78.70 chs.

Subdivisions T 2 N. R. 3 W.

Chains From W. C. of secs. 5, 6, 7 and 8, which is 60 lks. N. 0°01' W. from point for cor. to secs. 5, 6, 7 & 8
N. 0°4' W. on a random line bet. secs. 5, and 6.

40.00 Set temp. 1/4 sec. cor.

79.29 Intersect N. bdy. of Tp. 3 lks. E. of cor. of secs. 5, 6, 31, and 32.
Thence Irun
S. 0°5' E. on a true line bet. secs. 5 and 6.
Descend through burned district.

0.50 Spring branch, in ravine, 2 lks. wide, course S. E.
Ascend.

30.00 Leave burned district, enter green timber brs. N. W. and S. E.

33.00 Ridge brs. N. W. and S. E.
Descend.

39.89 Set a sandstone 17 X 10 X 5 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on W. face; from which
An aspen 10 ins. diam. brs. S. 58° W., 36 lks. dist., marked 1/4 S. 6 B T.
An aspen 8 ins. diam., brs. N. 84°30' E., 31 lks. dist., marked 1/4 S. 5 B T.

43.00 Leave live timber, enter burned district. brs. N. W. and S. E.

69.00 Ravine in cañon, course S. E. Ascend.

79.29 W. C. secs. 5, 6, 7 and 8 heretofore described.
79.89 Point for cor. to secs. 5, 6, 7 & 8 in lake. Cor. not set.
Land, mountainous.
Soil, rocky; 3" and 4" rate.
Timber, pine and aspen.
Mountainous or heavy timbered land 79.29 chs.

Sept. 24, 1903.

General Description

This township is mostly mountainous, being high nearly to timber line along the North bdy, and sloping off to bench land along the South bdy. In secs. 16 and 21 some of the land along Dry Gulch creek could be irrigated. There is a good supply of water along the North bdy; and some good reservoir sites. Nearly all the water sinks within a mile of the South bdy.

Nearly all the Tp. except a small portion along S. bdy is covered with a dense growth of timber and brush. It is mostly pine and aspen, but on the benches in the southern part there is some very good mill timber, yellow pine. In the northern portion there are some good red pine logs. The township is well adapted to grazing purposes and grass in quite abundant throughout.

The old houses around the old Government saw-mill in secs. 28 and 29 and the pasture there, are the old improvements in the Tp. It is the summer camp of the cowboys of Wash, an Indian. There are no other settlers within the township.

There are no minerals known to be in this township.

Herman E. Freudenthal

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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 Herman E Freudenthal, 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 Sub-division lines of T. 2 N. R. 3 W. Uintah Special Base Meridian, Utah showing the respective capacities in which they acted:

John Potter, *Chainman.*

O. R. Morse, *Chainman.*

Harry Hunter, *Moundman.*

, *Moundman.*

J. L. Pace, *Axman.*

, *Axman.*

J. M. Sturdivan, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the Sub division lines of T. No 2 N. Range No 3 W

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

John Potter, *Chainman.*

O R Morse, *Chainman.*

Harry Hunter, *Moundman.*

, *Moundman.*

J. L. Pace, *Axman.*

, *Axman.*

J. M. Sturdivan, *Flagman.*

Subscribed and sworn to before me this 26 day of October 1903,

SEAL

Herman E Freudenthal
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E. Freudenthal, United States Deputy Surveyor, d
solemnly swear that, in pursuance of a contract received from Edward M. Anderson
United States Surveyor General for Utah, bearing date of th
20th day of July 1903, ~~1891~~, I have well, faithfully, and truly, in my o
proper person, and in strict conformity with the instructions furnished by the United States Su
General for Utah, the Manual of Surveying Instructions, and the laws of th
United States, surveyed all those parts or portions of Sub division lines of
T. No 2. N. Range No 3 W

of the Uintah
Special Base meridian, in the State of Utah, which are represented in th
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnl
swear that all the corners of said survey have been established and perpetuated in strict accordance wit
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyo
General for 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.

Herman E. Freudenthal
United States Deputy Surveyo

Subscribed by said Herman E. Freudenthal and sworn to before me
this 25th day of November 1903 189

SEAL

Edward M. Anderson
U.S. Surveyor-Gen.
for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 1 1904 189

The foregoing field notes of the survey of the Subdivisional Lines of
Township 2 North Range 3 West of the Uintah
Special Base & Meridian Utah

executed by Herman E. Freudenthal
under his contract No. 268, dated Feby 20 1903, 189, having bee
critically examined, and the necessary corrections and explanations made, the said field notes, and th
surveys they describe, are hereby approved.

Edward M. Anderson
United States Surveyor Genera

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

United States Surveyor General

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BOOK A-305

FILED

NOV 20 1903

FIELD NOTES

OF THE SURVEY OF THE

N.T.B.

West East and North

Boundaries

Of

T No 3 N R No 3 W

Of the Winton Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E. Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268, dated July 20th 1903 189

Survey commenced September 24th 1903, 189

Survey completed October 10th 1903, 189

6—151

West Bdy Lg R 6.00.00

Cath " " 5.77.83

11.77.83

East Bdy Lg R 6.00.00 Dollars rates

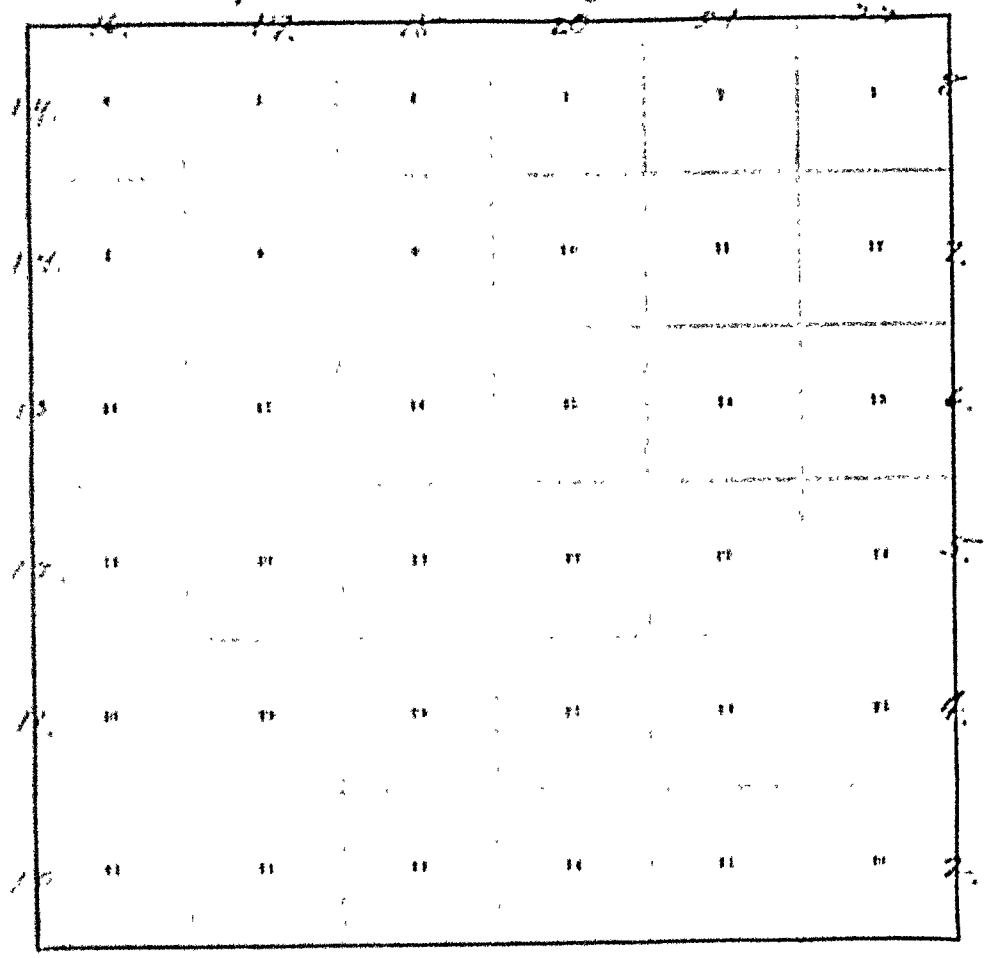
NAMES AND DUTIES OF ASSISTANTS.

John Potter	Chainman
S R Morse	Chainman
Harry Hunter	Moundman
J L Pice	Axman
J M Sturdivan	Flagman

BOOK A-305

INDEX DIAGRAM.

Township 3 N . *Range* 3 W



Meanders Page .....

PRELIMINARY OATHS OF ASSISTANTS.

We, John Potter and O. R. Morse 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 West East and North Bdys of T. No 3. N. R No 3 W. Uintah Special Base & Mer. Utah

John Potter, Chainman.

O R Morse, Chainman.

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman E Freudenthal
U. S. Deputy Surveyor

~~We,~~ I Harry Hunter ~~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 West East and North Bdys of T. No 3 N R No 3 W. Uintah Special Base & Meridian Utah

Harry Hunter, Moundman.

, Moundman.

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman E Freudenthal
U. S. Deputy Surveyor

~~We,~~ I J. L. Pace ~~and~~ do solemnly swear that ~~we~~ I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of West East & North Bdys of T. No 3 N. R. No 3 W. Uintah Special Base & Meridian Utah

J. L. Pace, Axman.

, Axman.

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman E Freudenthal
U. S. Deputy Surveyor

I, J. M. Sturdivan, 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 West East & North Bdys of T. No 3 N. R. No 3 W. Uintah Special Base & Mer. Utah

J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman E Freudenthal
U. S. Deputy Surveyor

6—151

East boundary of T. 3 N., R. 3 W.

Survey commenced Sept. 24. 1903 and executed with a Wand L.E. Gurley light-mountain transit for a complete description of which see book A.

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

At my camp which is located in sec 30, latitude 40° 38' N. longitude 110° 17' W; I set off 40° 38' N on the lat arc 0° 15' S on the decl. arc; and at 4h 00m p.m. l.m.t. determine with the solar a true meridian and mark a point thereof, by a tack driven in a plug set 5 chs. N of my station.

Sept. 25 1903, at 1h 10m a.m. l.m.t. I observe Polaris at upper culmination in accordance with Manual of Instructions and mark a point in the line thus determined on the plug set Sept. 24, which mark coincides with that of the mark determined by the solar.

At 8h 00m a.m. l.m.t. I set off 40° 38' N on the lat. arc 0° 31' S on the decl arc and mark a point in the meridian determined with the solar by a pencil mark on the plug already set 5 chs N of my station.

East boundary of T. 3 N., R 3 W.

Chains 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 coincident with 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 bearing of the true meridian at 8h 30m a.m. l.m.t. is N. 16°34 W. The angle thus determined gives the mag. decl 16.34 E.

Having learned from Deputy Dallas that he will be unable to complete the survey of the East boundary of T. 3 N., R 3 W at present and being unable to close my work without this line having been established I proceed to survey the same as follows.

Sept. 25, 1903, at 2h 00m p.m. l.m.t. I set off 40°37' N on the lat arc 0°38' S on the decl arc; and determine a meridian with the solar at the cor of Tps 2 and 3 N Rs 2 and 3 W heretofore described.

Thence I run

North bet secs. 31 and 36

Descend over mountainous land through heavy timber.

5.00 Head of ravine drains easterly

Ascend

East boundary of T 3 N., R 3 W.

Chains	
12.00	Ridge spur projects easterly descend.
40.00	Set a quartzite stone 16 x 10 x 8 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W face from which A pine 16 ins diam bears N 38° E 33 lks. dist. marked 1/4 S. 31 B.T. A pine 12 ins diam bears N. 66° W 19 lks. dist. marked 1/4 S 36 B.T.
51.00	Ravine drains easterly. Ascend.
72.00	Top of ridge bears N.W. and S.E. Descend
80.00	Set a quartzite stone 18 x 10 x 8 ins 12 ins in the ground for cor of secs 25, 30, 31 and 36 marked with 1 notch on S and 5 notches on N edge from which A pine 6 ins diam bears N 55° 30' W. 93 lks dist marked T. 3 N., R 3 W S 25 B.T. A pine 5 ins diam bears S 64° E 51 lks dist marked T 3 N R 2 W S 31 B.T. A pine 6 ins diam bears S 57° W 48 lks dist marked T 3 N R 3 W S 36 B.T. A pine 4 ins diam bears N. 57° 30' E 50 lks dist marked T 3 N R 2 W S 30 B.T.

Land mountainous.
Soil stony. 4th rate
Timber pine and aspen
Mountainous land and heavily timbered 80.00 chs.

East boundary of T 3 N R 3 W.

	North bet secs 25 and 30 thro mountainous land through heavy timber descending.
11.50	Head of ravine drains N.E. Ascend.
20.00	S fm projects northeasterly. Descend.
40.00	Set a quartzite stone 17x10x6 ins 12 ins in the ground for for 1/4 sec cor marked 1/4 on W face from which An aspen 4 ins diam bears N 88° E 25 lks. dist - marked 1/4 S 30 B T. An aspen 5 ins diam bears N 47° W. 14 lks dist: marked 1/4 S 25 B T.
40.90	Spring branch 3 lks wide 6 ins deep drains N.E.
76.70	Branch of Uintah runs 20 lks wide drains S.E. Enters dense undergrowth
80.00	Set a quartzite stone 16x10x8 ins 11 ins in the ground for cor of secs. 19, 24, 25 and 30 marked with 2 notches on S and 4 notches on N edge from which A pine 14 ins diam bears N 64° E 96 lks dist - marked T 3 N R 2 W S 19 B T. A pine 10 ins diam. bears S 9° 30' E 51 lks dist - marked T 3 N R 2 W S 30 B T. A pine 10 ins diam bears S 79° 30' W 34 lks dist - marked T 3 N R 3 W S 25 B T. A pine 24 ins diam bears N 5° 30' W 40 lks. dist - marked T 3 N R 3 W S 24 B T. Land mountainous Soil stony 4th rate Timber pine and aspen

East boundary of T. 31 N., R. 3 W.

chains	Heavily timbered land or dead undergrowth 80.00 chs. Mountainous land 80.00 chs.
	North bt secs 19 and 24 Lies bottom land through dense willow and aspen undergrowth.
11.00	Main branch of Unlak river 50 lks wide drains S.E. continue through dense undergrowth.
40.00	Set a quartzite stone 17x12x8 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face from which A pine 7 ins diam. bears S 29° E 31 lks dist - marked 1/4 S 19 B.T. A pine 10 ins diam bears N 28° W 40 lks dist - marked 1/4 S 24 B.T.
40.10	Spring branch 10 lks wide drains S.W.
58.00	Leave bottom land and ascend along broken S.W. slope. Leave dense undergrowth.
80.00	Set a quartzite stone 16x10 x5 ins 11 ins in the ground for cor of secs 13, 18, 19 and 24 marked with 3 notches on S and W edge from which A pine 5 ins diam bears N 45° E 55 lks dist - marked T 3 N R 2 W S 18 B.T. A pine 20 ins diam bears S 64° E 18 lks dist - marked T 3 N R 2 W S 19. B.T. A pine 8 ins diam bears S 66° W 43 lks dist - marked T 3 N R 3 W S 24 B.T.

East boundary of T. 3 N., R. 3 W.

Trans	A pine 8 ins diam bears N 22° 30' W 41 lks dist. marked T. 3 N R 3 W S 13 B T. Land rolling and mountainous. Soil stony and gravelly. 2nd and 4th rate. Timber pine and aspen Mountainous land heavily timbered or dense undergrowth 80.00 chs. Sept 25, 1903.
	Sept 26. 1903, At 8h 00m a.m. l.m.t. I set off 40° 39' N on the lat arc 0° 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 North bet secs 13 and 18 Over mountainous land through heavy timber ascending along S.W. slope.
5.40	Spring branch 5 lks wide drains S.W. Ascend
12.00	Spur projects westerly, Descend.
22.50	Spring branch 5 lks. wide drains S.W. ascend
40.00	Set a quartzite stone 19 x 10 x 8 ins 13 ins in the ground for 1/4 sec. cor. marked 1/4 on W face from which A pine 12 ins diam. bears N 2° E 170 lks dist marked 1/4 S 18 B T A pine 30 ins diam bears N 8° 30' W. 175 lks dist marked 1/4 S 13 B T. Cor falls on spur sloping southwesterly. Continue along S.W. slope of high ridge.
53.00	Spring branch 5 lks wide in

East boundary of T. 3 N., R. 3 W.

ravine drains S.W.
Ascends

80.00 Set a quartzite stone 18x12x4 ins 12 ins in the ground for cor of secs 7, 12, 13 and 18 marked with 4 notches on S and 2 notches on N edge from which
A pine 18 ins diam bears N 13° 30' E 25 lks dist marked T 3 N., R 2 W. S 7 B.T.
A pine 10 ins diam. bears S 43° 30' E 6 lks dist. marked T 3 N R 2 W S 18 B.T.
A pine 13 ins diam bears S 75° W. 18 lks dist. marked T 3 N R 3 W S 13 B.T.
A pine 14 ins diam bears N 36° W 26 lks dist marked T 3 N R 3 W S 12 B.T.
Land mountainous
Soil rocky, 4th rate.
Timber Pine and aspen
Mountainous land heavily timbered 80.00 chs.

North bet secs 7 and 12
Asst rocky S.W. slope ascending, through scattering timber

8.00 Top of spur projects nearly
Ascend gradually along S.W. slope, through slide rock.

18.00 Lean slide rock enter heavy timber bears E of N.

40.00 Set a quartzite stone 14x12x8 ins 10 ins in the ground for 1/4 sec cor marked 1/4 on W face from which
A pine 7 ins diam bears N 34° W.

East boundary of T. 3 N., R. 3 W.

Hams	20 lks dist marked 1/4 S 12 B T.
	A pine 20 ins diam bears S 77° E
	20 lks dist marked 1/4 S 7 B T.
65.00	Leave timber bears E & W.
	continue gradual ascent
	above timber line.
80.00	Set a quartzite stone 16×12×6
	ins 11 ins in the ground for
	cor of secs 1, 6, 7 and 12
	marked with 5 notches on
	S and 1 notch on N edge
	and raise a mound of stone
	2 ft base 1½ ft high W of cor.
	Pits impracticable.
	Land mountainous
	Soil rocky 4th rate
	Timber pine and fir
	Mountainous land 80.00 chs
	Sept. 26 1903. At this cor I set off
	0°59' S on the decl. arc and at
	12h 00m m l.m.t. observe the sun
	on the meridian, the resulting
	lat is 40°41' N

	North bet secs 1 and 6
	Over mountainous land ascending.
9.00	Top of high rocky ridge.
	bears E and W, Descend.
30.00	Enter timber bears E & W.
40.00	Set a quartzite stone 16×14×
	6 ins 11 ins in the ground for
	1/4 sec cor. marked 1/4 on W face
	from which
	A pine 6 ins diam bears S 76° W
	35 lks dist marked 1/4 S 1 B T.
	A pine 7 ins diam. bears
	N 81° E 52 lks dist marked 1/4 S 6 B T.
42.00	Bottom of ravine drains W.

East boundary of T. 3 N., R. 3 W.

45.00 Leave timber enter open bears E and W.

49.00 Top of rocky ridge spur projects westerly.
Descend abruptly over slide rock.

75.00 Bottom of deep ravine drains westerly.

80.00 Set a quartzite stone 24×10×10 ins 18 ins in the ground for cor of Tps 3 and 4 N, Rs. 2 and 3 W, marked with 6 notches on each edge from which
A pine 6 ins diam bears N 4°30' E 208 lks dist marked T 4 N R 2 W S 31 B T.
A pine 12 ins diam. bears S. 20° E. 79 lks dist marked T 3 N R 2 W S 6 B T.
A pine 18 ins diam bears S 24° W. 49 lks. dist marked T 3 N R 3 W S 1 B T.
A pine 4 ins diam bears N 77°30' W. 33 lks dist marked T 4 N R 3 W S 36 B T.
Land mountainous.
Soil stony 4th rate.
Timber pine 15.00 chs.
Mountainous land 80.00 chs.
Sept 26 1903.

West boundary of T. 3 N., R 3 W.

chains	
	Sept. 27, 1903, At 10h 00m a.m. l.mt. I set M 40° 37' N on the lat arc, 1° 20' S on the dec arc and determine a meridian with the solar at the corner of Tps 2 and 3 N Rs 3 and 4 W. heretofore described.
	Thence I run North bet secs 31 and 36 thro mountainous land through heavy timber, descending,
10.00	Bottom of ravine drains S.E. Ascend gradually.
40.00	Set a quartzite stone 20 x 10 x 4 ins 15 ins in the ground for 1/4 sec cor marked 1/4 on W face from which A pine 10 ins diam bears 96 3° W 13 lks dist - marked 1/4 S 36 B.T. A pine 11 ins diam bears S 5° 30' E. 37 lks dist - marked 1/4 S 31 B.T.
80.00	Set a quartzite stone 20 x 8 x 6 ins 15 ins in the ground for cor of secs. 25, 30, 31 and 36 marked with 1 notch on S and 6 notches on N edge from which, A pine 8 ins diam bears N 68° E. 74 lks dist - marked T 3 N R 3 W. S 30 B.T. An aspen 6 ins diam. bears S 47° E 30 lks. dist - marked T 3 N R 3 W S 31 B.T. A pine 34 ins diam bears S 46° 15' W 93 lks dist - marked T 3 N R 4 W S 36 B.T. An Aspen 12 ins diam bears N 69° 30 W. 30 lks dist - marked T 3 N R 4 W S 25 B.T.
	Land mountainous. Soil stony; 3rd rate. Timber pine, aspen and fir. Mountainous land heavily timbered 80.00 chs.

West boundary of T. 3 N., R. 3 W.

Mains.	Sept. 27 1903. At this cor I set off 1°23' S. on the decl. arc and at 12h 00m M. l.m.t. observe the sun on the meridian; the resulting lat is, 40°38' N.
	North bet secs 25 and 30
	Over mountainous land through heavy timber and dense undergrowth ascending.
38.00	Top of ridge bears N.W. and S.E. Thence over flat top of ridge
40.00	Set a quartzite stone 20×10×6 ins. 15 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which.
	A pine 12 ins diam bears N 52°45' W. 36 lks dist marked 1/4 S 25 BT.
	A pine 9 ins diam bears S 56° E. 57 lks dist marked 1/4 S 30 BT.
70.00	Begin descent.
75.00	Head of ravine drains S.E. Ascend gradually.
80.00	Set a quartzite stone 18×12×8 ins 12 ins in the ground for cor of secs 19, 24, 25 and 30 marked with 2 notches on S and 4 notches on N edge from which
	A pine 7 ins diam. bears N 1° E 232 lks dist marked T 3 N R 3 W S 19 BT.
	A pine 14 ins diam bears S 37° E 180 lks dist marked T 3 N R 3 W S 30 BT.
	A pine 6 ins diam. bears S 76°30' W. 143 lks dist. marked T 3 N R 4 W S. 25 BT.
	A pine 8 ins diam. bears N. 5°45' W. 146 lks dist. marked T 3 N R 4 W

West boundary of T. 3 N., R. 3 W.

Chains: S 24 BT.
Land mountainous.
Soil stony, 4th rate
Timber fine, fir, and aspen
Mountainous land ;- heavily timbered or dense undergrowth 80.00 chs.
Sept. 27, 1903.

Sept. 28, 1903, At 8h 00m a.m. l.m.t. I set off 40° 38' N on the lat arc 1° 41' S on the decl. arc and determine a meridian with the solar at the cor of secs 19, 24, 25 and 30.
Thence I run
With bet. secs 19 and 24
Over mountainous land through scattering timber, ascending.
10.00 Leave scattering timber and begin abrupt ascent over slide rock.
40.00 Point for 1/4 sec cor falls on rock in place
A quartzite stone 4 x 3 x 3 ft above general surface, marked same with a cross (X) at exact cor point for 1/4 sec cor with 1/4 W of cross and raised a mound of stone 2 ft base 1 1/2 ft high W of cor.
Pits impracticable.
42.00 Top of sharp rocky ridge bears E and W. Descend.
76.00 Leave slide rock and enter marsh land bears E. and W.
80.00 Set a sandstone 16 x 8 x 4 ins 11 ins in the ground for cor of secs 13, 18, 19 and 24 marked with 3 notches on N and S edge and raised a mound of stone 2 ft base

West boundary of T. 3 N., R. 3 W.

Chains	1½ ft high W of cor. Pits impracticable Land mountainous. Soil stony and marshy 3rd and 4th rate. Timber scattering pine 10.00 chs. Mountainous land 80.00 chs.
	North bet secs 13 and 18 Over marsh land
0.15	Spring branch 6 lks wide drains westerly.
4.00	Leave marsh, enter slide rock, Ascend
40.00	Set a quartzite stone 18 x 12 x 8 ins 12 ins in the ground for ¼ sec. cor. marked ¼ on W face and raised a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.
78.00	Top of rocky rodge bears N.W. & S.E. Descend.
80.00	Set a quartzite stone 16 x 8 x 7 ins 11 ins in the ground for cor of secs 7, 12, 13 and 18 marked with 4 notches on S and 2 notches on N edge and raised a mound of stone 2 ft. base 1½ ft high W of cor. Pits impracticable. Land mountainous. Soil marshy and rocky. 3rd and 4th rate. No timber Mountainous land 80.00 chs. Sept 28, 1903. At this cor: I set off 1°46' S on the decl arc and at 12h 00m m. l.m.t. observe the sun on the meridian;

Chains	
	the resulting lat is 40°40' N.
	North bt secs 7 and 12
	Over mountainous land, descending.
11.50	Begin abruft descent over slide rock.
35.00	Head of ravine drains easterly. Ascend.
40.00	Set a sandstone 16x10x8 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.
80.00	Set a quartzite stone 14x10x4 ins 12 ins in the ground for cor of secs 1, 6, 7 and 12 marked with 5 notches on S and 1 notch on N edge and raise a mound of stone 2 ft. base 1½ ft high SW of cor. Pits impracticable Land mountainous. Soil rocky. 4th rate. No timber Mountainous land 80.00 chs.
	North bt secs 1 and 6
	Over mountainous land and slide rock, ascending.
12.00	Top of ridge runs E. & W.
14.00	Descend precipitous slope over slide rock.
40.00	Point for 1/4 sec. cor. falls on rock in place. A quartzite stone 5x4x4 ft above general surface, marked same

West boundary of T. 3 N., R. 3 W.

Chains.	
	with a cross (X) at east cor. joint for 1/4 sec. cor. with 1/4 W of cross and raised a mound of stone 2 ft base 1½ ft high W. of cor. Pits impracticable.
45.00	Foot of abrupt descent; bear slide rock; descend gently over marshy ground.
52.00	Lean marshy ground, enter timber.
60.50	West fork of Umtal river 15 lks wide drains Easterly. Ascend.
80.00	Set a quartzite stone 18x10x6 ins 12 ins in the ground for cor of Tps 3 and 4 N. Rs 3 and 4 W. marked with 6 notches on each edge from which, A pine 10 ins diam bears N. 4° 30' E. 62 lks dist - marked T 4 N R 3 W S 31 B T. A pine 7 ins diam. bears S 8 2° E 48 lks dist. marked T 3 N R 3 W S 6 B T. A pine 34 ins diam. bears S 17° 30' W 61 lks dist - marked T 3 N R 4 W S 1 B T. A pine 8 ins diam. bears N 25° 30' W 64 lks dist - marked T 4 N R 4 W. S 36 B T. Land mountainous. Soil rocky 4th and 3rd rate. Timber pine and fir 28.00 chs. Mountainous land 80.00 chs. Sept. 28, 1903.

North boundary of T. 3 N., R 3 W.

Chains	
	Oct 4th 1903, at 10h 00m a.m. l.m.t. I set off 40° 42' N on the lat arc 4° 04' S. on the decl arc and determine a meridian with the solar at the cor of Tps 3 and 4 N. Rs 2 and 3 W. heretofore described.
	Thence I run
	West on a random line along N bdy T 3 N R 3 W setting temp. 1/4 sec. and sec. cors. at intervals of 40.00 and 80.00 chs respectively and at 5 miles and 77.83 chs intersect N and S line 138 lks N of cor of Tps 3 and 4 N Rs 3 and 4 W. heretofore described
	Oct. 7, 1903, at 12h 00m m l.m.t. sky overcast and observation for dat impossible.
	Oct. 7 1903.
	Oct. 8 - 1903 at 8h 00m a.m. l.m.t. I set off 40° 42' N on the lat. arc 5° 34' S on the decl arc and determine a meridian with the solar at the cor of Tps 3 and 4 N. Rs 3 and 4 W. heretofore described
	Thence I run
	N 89° 50' E on a true line bet secs 6 and 31
	Thro mountainous land through heavy timber descending.
4.32	Spring branch 5 lks wide drains S.E.
	Thence along S slope.
21.00	Spring branch. 5 lks wide drains S.E.
37.83	Set a quartzite stone 17 x 10 x 6 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N face from which, A pine 7 ins diam. bears S 87° 30' W 85 lks dist marked 1/4 S 6 B.T. A pine 12 ins diam. bears N. 13° W. 157 lks dist marked 1/4 S 31 B.T.

North boundary of T. 3 N., R. 3 W.

77.83 Set a quartzite stone 17x10x10 ins 12 ins in the ground for cor of secs 5, 6, 31 and 32 marked with 5 notches on E and 1 notch on Wedge from which,
A pine 8 ins diam. bears N 73° E 82 lks dist marked T 4 N R 3 W S 32 B T.
A pine 14 ins diam bears S 74° E 40 lks dist marked T 3 N R 3 W S 5 B T.
A pine 14 ins diam bears S 29° W 41 lks dist marked T 3 N R 3 W S 6 B T.
A pine 6 ins diam bears N 14° W. 40 lks dist marked T 4 N R 3 W S 31 B T.
Land mountainous and rolling.
Soil stony, 3rd rate.
Timber pine, fir, and spruce,
Mountainous or heavily timbered land 77.83 chs.
Oct. 8 — 1903; At this cor I set off 5°37' S on the decl. arc and at 12h 00m m l.m.t. observe the sun on the meridian; the resulting lat is 40°42' N.

N 89° 50' E on a true line bet. secs. 5 and 32.
Over mountainous land through timber.
1.00 Draw drains S.E.
13.50 Spring branch 5 lks wide drains S.E.
40.00 Set a quartzite stone 16x10x5 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which
A pine 6 ins diam bears N 20° E 9 lks. dist marked 1/4 S 32 B.T.

North boundary of T. 3 N., R. 3 W.

Chains

A pine 16 ins diam bears S 25° 30' E 20 lks dist - marked 1/4 S 5 B T.

47.50 Spring branch 10 lks wide, outlet of small lake 2 chs N of line, drains S.E.

80.00 Point for cor falls on rock in place 18 x 12 x 10 ins above ground. Cut a cross (+) at the cor point for cor of secs 4, 5, 32 and 33 with 4 grooves E and 2 grooves W of cross from which;

A pine 20 ins diam bears N 66° E 74 lks dist marked T 4 N R 3 W S 33 B T.

A pine 22 ins diam bears S 21° E 90 lks dist - marked T 3 N R 3 W S 4 B T.

A pine 24 ins diam bears S 24° 30 W 92 lks dist - marked T 3 N R 3 W S 5 B T.

A pine 30 ins diam bears N 56° W. 33 lks. dist - marked T 4 N R 3 W S 32 B T.

Land mountainous.
Soil stony 3rd and 4th rate.
Timber pine and fir.
Mountainous land heavily timbered 80.00 chs.

Oct. 8 1903.

Oct. 9 1903. At 8h 00m a.m. l.m.t. I set off 40° 42' N on the lat arc 5° 57' on the dec arc and determine a meridian with the solar at the corner of secs 4, 5, 32 and 33 T thence I run N. 89° 50' E. on a true line bet secs 4 and 33.
Cross mountainous land through

North boundary of T. 3 N., R. 3 W.

chains	
	heavy timber.
40.00	Point for cor. falls on rock in place 3 x 2 x 1 ft above ground Cut a cross (X) at the corner Joint for 1/4 sec cor; marked 1/4 N of cross from which, A pine 18 ins diam bears S 56° E 19 lks dist - marked 1/4 S 4 B T. A pine 18 ins diam bears N 55 E 19 lks dist - marked 1/4 S 33 B T.
47.00	W fork of Uintah river 8 lks. wide bearing N.E. Ascend.
57.00	Lean timber bears N and S Enters slide rock, ascend along N edge of same.
72.00	Leave slide rock, enter timber, descend.
80.00	Set a granit-stone 24 x 12 x 6 ins 18 ins in the ground for cor of secs 3, 4, 33 and 34 Marked with 3 notches on E and W edge from which; A pine 10 ins diam bears N 45° 30 E 75 lks dist - marked T 4 N R 3 W S 34 B T. A pine 12 ins diam bears S 5° 4° E 17 lks dist - marked T 3 N R 3 W S 3 B T. A pine 10 ins diam bears S 28° 30' W 51 lks dist - marked T 3 N R 3 W S 4 B T. A pine 20 ins diam bears N 73° 30' W 100 lks dist - marked T 4 N R 3 W S 33 B T. Land mountainous. Soil stony, 4th rate. Timber pine fir and aspen 66.00 chs. Mountainous land 500 chs.

North boundary of T. 3 N., R. 3 W.

Chains

N 89° 50' E on a true line
at secs 3 and 34
thro mountainous land
thro heavy timber, ascending
35.50 West fork of Thilak river 20 lks
wide drains S.E. Ascends
abruptly.
40.00 Point for 1/4 sec. cor. falls on
rock in place 3 x 3 x 2 ft
above ground.
Cut a cross (X) at the cor. point
for 1/4 sec cor, marked 1/4 on
N side of cross from which;
A fire 24 ins diam. bears N 42° 30' W
22 lks dist - marked 1/4 S 34 B T.
A fire 22 ins diam bears
S 15° E. 37 lks dist - marked 1/4 S 3 B T.
80.00 Set a quartzite stone 20 x 10 x 5
ins 15 ins in the ground for
cor of secs 2, 3, 34 and 35
marked with 4 notches on
W and 2 notches E edge from which
A fire 13 ins diam bears N 72° E
41 lks dist - marked T 4 N R 3 W
S 35 B T.
A fire 14 ins diam bears S 36° E
22 lks dist - marked T 3 N R 3 W
S 2 B T.
A fire 9 ins diam bears S 84° W
99 lks dist marked T 3 N R 3 W
S 3 B T.
A fire 20 ins diam bears N 18° W
66 lks dist - marked T 4 N R 3 W
S 34 B T.
Land mountainous
Soil stony; 4th rate.
Timber fir and fir
Mountainous land heavily timbered
800 chs.
Oct 9 - 1903; at this cor I set
6° 01' S on the dist. arc and at-

North boundary of T. 3 N., R. 3 W.

Chains.	
	12h 00m m. l. m. t. observe the sun on the meridian; the resulting lat is 40° 42' N.
	N 89° 50' E on a true line bet secs 2 and 35
	Over mountainous land through heavy timber, Ascending
9.00	Top of ridge bears N.W. and S.E. Descend.
40.00	A fine 14 ins diam for 1/4 sec cor, I mark 1/4 S 35 on N and 2 on S side from which
	A fine 8 ins diam bears N 25° E 25 lks dist marked 1/4 S 35 B.T.
	A fine 6 ins diam. bears S 10° E 31 lks dist. marked 1/4 S 2 B.T.
43.00	Top of cliff 75 ft high bears northerly and southerly. Descend abruptly over cliff and slide rock.
80.00	Set a quartzite stone 20×12×6 ins. 15 ins in the ground for cor of secs 1, 2, 35 and 36 marked with 5 notches on W and 1 notch on E edge from which,
	A fine 14 ins diam bears N 59° 15' E 44 lks dist marked T 4 N R 3 W S 36 B.T.
	A fine 8 ins diam bears S 51° E 58 lks dist marked T 3 N R 3 W S 1 B.T.
	A fine 12 ins diam bears S 7° 30' W 31 lks dist marked T 3 N R 3 W S 2 B.T.
	A fine 20 ins diam bears N 36° W 65 lks dist marked T 4 N R 3 W S. 35 B.T.
	Land mountainous.

North boundary of T. 3 N., R. 3 W.

...ams	soil rocky 3rd and 4th rate. Timber pine and fir. Mountainous land heavily timbered 80.00 chs, Oct 9 - 1903
	Oct. 10, 1903: At 8h 00m a.m. l.m.t. I set off 40°42' N on the lat arc 6°19' S on the decl. arc and determine a meridian with the solar at the cor of secs 1, 2, 35, and 36. Thence I run N 89°50' E on a true line bet. secs 1 and 36 Over mountainous land, through heavy timber, descending.
26.00	Bottom of W side of E fork of Uintah Canon.
27.00	E fork of Uintah river 30 lks wide, drains southerly.
29.50	E side of canon ascend abruptly over rocky south slope.
40.00	Set a quartzite stone 18 x 10 x 4 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N face from which, A pine 10 ins diam bears N. 10° E 56 lks. dist marked 1/4 S 36 B T. A pine 8 ins diam bears S. 1° E. 60 lks. dist marked 1/4 S 1 B T.
80.00	The cor of Tps 3 and 4 N R'g's 2 and 3 W. Land mountainous. Soil stony, 4th rate. Timber pine and fir. Mountainous land heavily timbered 80.00 chs. Oct. 10th 1903.

North boundary of T. 3 N., R. 3 W.

Latitudes, Departures and Closing Errors

Line Designated		True Bearing	Dist.	Latitudes N.	Latitudes S.	Departures E.	Departures W.
			chs.	chs.	chs.	chs.	chs.
S. Bdy	T. 3 N., R. 3 W.	N 89° 58' W.	478.80	.28			478.80
W Bdy.	T 3 N, R. 3 W.	North	480.00	480.00			
N. Bdy.	T. 3 N., R. 3 W.	N 89° 50' E.	477.83	1.38		477.83	
E Bdy	T. 3 N., R. 3 W	South	480.00		480.00		
Convergency.						.62	
				481.66	480.00	478.45	478.80
				480.00			478.45
Error in Lat.				1.66	Error in Dep.		.35

General Description.

For general description see notes of Subdivision of T. 3 N., R. 3 W.

Herman C. Trautenthal
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 Herman E Fruedenthal, 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 West, East & North Bdys of T. No 3 N. R No 3 W. of the Uintah Special Base Meridian, Utah, showing the respective capacities in which they acted:

John Potter, Chainman.
O. R. Morse, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. L. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E Fruedenthal, United States Deputy Surveyor, in surveying all those parts or portions of the West, East & North Boundaries of T. No 3 N. R. No 3 W

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.

John Potter, Chainman.
O R Morse, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. L. Pace, Axman.
J M Sturdivan, ~~Axman~~ Flagman.
, Flagman.

Subscribed and sworn to before me this 26th day of October 1903, 189

SEAL

Herman E Fruedenthal
U.S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E Freudenthal, 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 th 20th 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 West, East and North Boundaries of T. No 3 N. R. No 3 W

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

Herman E Freudenthal
United States Deputy Surveyor

Subscribed by said Herman E Freudenthal, and sworn to before me this 20th day of November, 1903

Edward H Anderson
U S Surveyor Gen
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 1904, 189

The foregoing field notes of the survey of the West East & North Boundaries Township 3 North Range 3 West of the Uintah Special Base & Meridian Utah

executed by Herman E Freudenthal under his contract No. 168, dated July 20th 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 Gen

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

United States Surveyor Gene

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BOOK A-305

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NOV 20 1903

H.A.
H.J.B.

H.J.B.

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

Of

T. No 3 N. Range 3 W.

Of the Utah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E. Freudenthal, United States Deputy Surveyor,

Under his Contract No. 266, dated July 20th 1903, 189

Survey commenced Oct 12th 1903, ~~189~~

Survey completed Oct 26th 1903, ~~189~~

6—151

Range 59. 74. 67 W

NAMES AND DUTIES OF ASSISTANTS.

John Potter Chairman

O. R. Morse "

Henry Hunter Moundsman

J. L. Pace Axeman

J. M. Sturdivant Flagman

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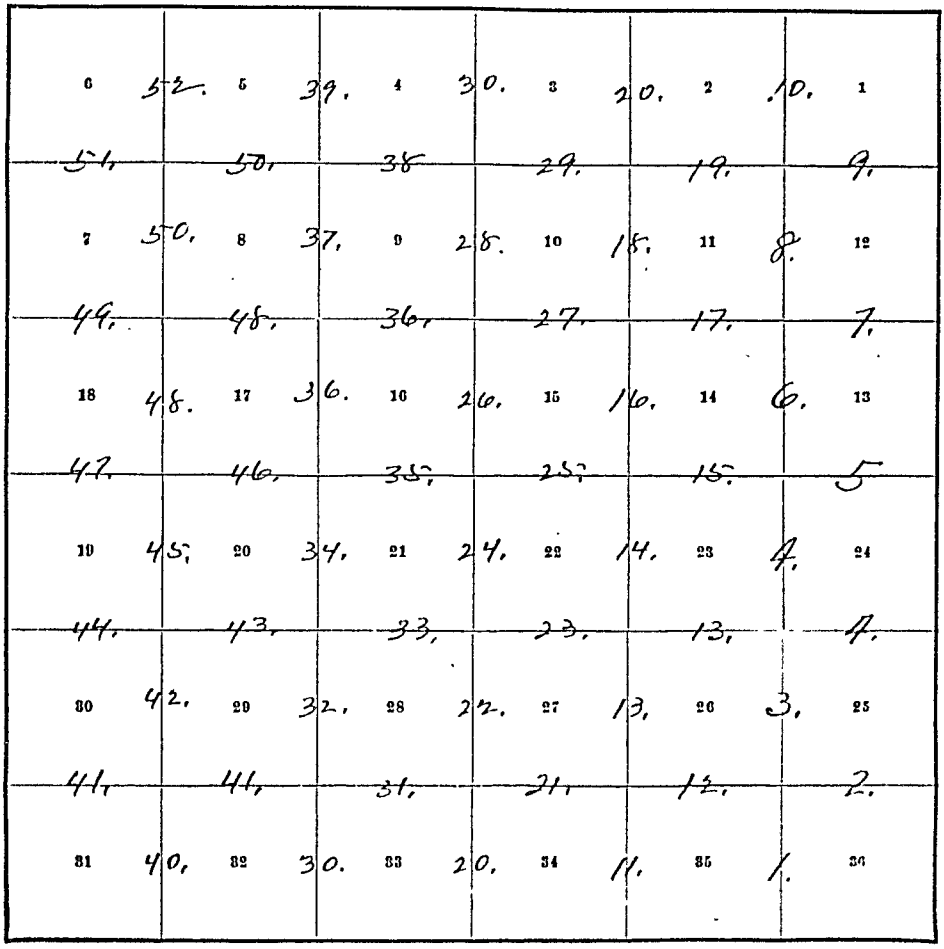
BOOK A-305

INDEX DIAGRAM.

Township 3 N., *Range* 3 W.



Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, John Potter and O. R. Morse

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 Sub division lines of Tp No 3 N. R. No 3 W. Uintah Special Base & Meridian Utah

John Potter, Chainman

O. R. Morse, Chainman

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman Ehrenthal

U.S. Deputy Surveyor

WE, J. Harry Hunter 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 me, to the best of my skill and ability, in the survey of Sub-division lines of Tp No 3 N. R. No 3 W. Uintah Special Base & Meridian Ut

J. Harry Hunter, Moundman

, Moundman

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman Ehrenthal

U.S. Deputy Surveyor

WE, J. J. L. Pace 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 me, to the best of my skill and ability, in the survey of Sub-division lines of Tp No 3 N. R. No 3 W. Uintah Special Base & Meridian Ut

J. J. L. Pace, Axman

, Axman

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman Ehrenthal

U.S. Deputy Surveyor

I, J. W. Sturdivan, 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 Sub-division lines of Tp No 3 N. R. No 3 W. Uintah Special Base & Meridian Utah

J. W. Sturdivan, Flagman

Subscribed and sworn to before me this 5th day of September 1903, 189

SEAL

Herman Ehrenthal

U.S. Deputy Surveyor

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Subdivision of T 3 N R 3 W.

Chains.	
	Survey commenced Oct 12th 1903 and connected with a N. & L. E. Surley light mountain transit with solar attachment for a description of which see book "A" For complete list of solar apparatus see book "C"
	Oct. 12, 1903. At 8h 00m a.m. l.m.t. I set ✓ 40° 37' N on the lat. arc. 7° 04' S. on the decl. arc and determine a meridian with the solar at the cor of secs 1, 2, 35 and 36 on S bdy of T. heretofore described.
	Thence I run N 0° 01' W bet secs 35 and 36 thro mountainous land, through heavy timber; ascending.
4.00	Spur projects easterly. Descend.
14.00	Head of draw drains easterly, ascend.
32.50	Ridge runs S.W. and N.E. Descend.
40.00	Set a quartzite stone 14 x 10 x 5 ins 10 ins in the ground, for 1/4 sec cor marked 1/4 on W face from which A pine 12 ins diam bears S 75° E 7 lks. dist - marked 1/4 S 36 B.T. A pine 9 ins diam bears N 65° W 23 lks. dist. marked 1/4 S 35 B.T.
76.00	Ravine drains easterly, ascend.
80.00	Set a quartzite stone 18 x 12 x 6 ins 12 ins in the ground for cor of secs. 25, 26, 35 and 36 marked with 1 notch on S and E edge from which,
	A pine 10 ins diam bears N. 23° 30 E. 69 lks. dist - marked T 3 N R 3 W S 25 - B.T.
	A pine 12 ins diam bears S 64° E 136 lks dist - marked T 3 N R 3 W S 36 B.T.

Subdivision of T. 3 N., R. 3 W.

chains	
	An aspen 5 ins diam. bears N 51° W 83 lks dist. marked T 3 N R 3 W S 26 B.T. An aspen 5 ins diam bears S 58° 15' W 69 lks dist. marked T 3 N R 3 W S 35 B.T. Land mountainous. Soil stony 4th rate. Timber pine and aspen Mountainous land heavily timbered. 80 chs.
	S. 89° 58' E on a random line bet secs 25 and 36.
40.00	set temp 1/4 sec cor.
80.30	Intersect E. Bdy of T. 16 lks N. of cor of secs. 25, 30, 31 and 36 heretofore described, whence I run N. 89° 51' W. on a true line bet. secs 25 and 36 thru mountainous land, through heavy timber and dense undergrowth. Ascend abruptly.
7.00	T.P. ridge bears northerly and southeasterly. Descend.
15.00	Leave timber enter open, bears N & S.
22.30	Spring branch 4 lks wide, in ravine drains S Ascend.
25.00	Leave open, enter timber bears N and S.
40.16	Set a quartzite stone 16 x 12 x 8 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which, A fir 30 ins diam. bears N 76° 30' E 12 lks dist. marked 1/4 S 25 B.T. An aspen 5 ins diam. bears S 76° 30 W. 56 lks dist. marked 1/4 S 36 B.T.
48.00	Ravine drains N.E. Ascend.
80.30	The cor of secs 25, 26, 35 and 36 Land mountainous Soil stony, 4th rate. Timber pine, aspen and fir. 70 30 chs.

Subdivision of T. 3 N., R. 3 W.

Chains	
	Mountainous land 80.30 chs. Oct. 12. 1903, At 12h 00m m. l. m. t. Sky overcast, observation for lat. impossible.
	N 0° 01' W. bet secs 25 and 26 Over mountainous land, through heavy timber, ascending.
20.00	Top of ridge, bears E. and W. Descend.
37.00	Ravine drains N. E. Ascend.
40.00	Set a quartzite stone 14×7×7 ins 10 ins in the ground for 1/4 sec. cor. marked 1/4 on W. face from which, A pine 10 ins diam. bears S 53° W 22 lks dist. marked 1/4 S 26 B T. A pine 9 ins diam bears S 23° E 37 lks dist. marked 1/4 S 25 B. T.
56.00	Spur projects easterly, Descend.
65.00	Ravine drains S. E. Ascend.
79.00	Top of spur projects South easterly. Thence along easterly slope.
80.00	Set a quartzite stone 16×12×5 ins 11 ins in the ground for cor of secs. 23, 24, 25 and 26 marked with 2 notches on S and 1 notch on E edge from which, A pine 5 ins diam bears N 44° E 21 lks dist. marked T 3 N R 3 W S 24 B T. A pine 13 ins diam. bears S 66° E 69 lks dist. marked T 3 N R 3 W S 25 B T. A pine 14 ins diam bears S. 23° W. 31 lks dist. marked T 3 N R 3 W S 26 B T. A pine 12 ins diam. bears N 61° W 58 lks dist. marked T 3 N R 3 W S 23 B T. Land mountainous. Soil stony, 4th rate, Timber pine, aspen and fir. Mountainous land heavily timbered 80.00 chs.

Oct. 12, 1903

Subdivision of T. 3 N., R. 3 W.

Chains. Oct. 13 1903; At 8h 00m a.m. l.m.t. ✓
I set off 40°39'N on the lat arc 7°27'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. 89°51 E. on a random line
bet secs 24 and 25
40.00 Set temp 1/4 sec cor
80.14 Intersect E. bdy. of Tp 16 lks S of
cor of secs 19, 24, 25 and 30 heretofore described.
Thence I run
N 89°58'W on a true line bet. secs.
24 and 25.
Over mountainous land through
heavy timber.
0.90 West branch of Uintah river 30 lks
wide, drains S.E. Ascend gradually.
5.00 Begin steep ascent.
40.07 Set a quartzite stone 14x14x4 ins
10 ins in the ground for 1/4 sec cor
marked 1/4 on N face from which
An aspen 5 ins diam. bears N 40°30'E
40 lks dist. marked 1/4 S 24 B T.
A pine 5 ins diam bears S 23° E 28 lks
dist. marked 1/4 S 25 B T.
43.00 Top of ridge bears N.W. and S.E.
Descend.
47.00 Ravine drains S.E. Ascend.
80.14 The cor of secs 23, 24, 25 and 26.
Land mountainous.
Soil stony, 4th rate.
Timber pine, and aspen. 80.14 chs.
Mountainous land 80.14 chs.

N. 0° 01' W. bet. secs. 23 and 24
Over mountainous land through
heavy timber.
10.00 Head of hollow drains easterly

Subdivision of T. 3 N, R. 3 W.

Chains	
	Ascend.
30.00	Top of ridge trars E and W. Descend.
40.00	Set a quartzite stone 16×9×5 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on W face from which a pine 6 ins diam trars N 89° E. 24 lks dist marked 1/4 S 24 B T. A pine 10 ins diam trars S 18° W 30 lks dist marked 1/4 S 23 B T.
63.00	Ravine drains Easterly. Ascend.
80.00	Set a quartzite stone 18×12×6 ins 12 ins in the ground for cor of secs 13, 14, 23 and 24 marked with 3 notches on S and 1 notch on E. edge from which, A pine 7 ins diam trars N 24° E 39 lks dist marked T 3 N R 3 W S 13 B T. A pine 8 ins diam. trars S 8° E 32 lks dist marked T 3 N R 3 W. S 24 B T. An aspen 5 ins diam. trars S 70° W. 52 lks dist marked T 3 N R 3 W S 23 B T. A pine 10 ins diam trars N 12° W 62 lks dist marked T 3 N R 3 W S 14 B T. Land mountainous. Soil stony, 4th rate. Timber pine, aspen and fir. Mountainous land heavily timbered 80.00 chs. Oct 13, 1903. At this cor I set off 7° 32' S on the deck arc and at 12h 00m m. l. m. t. observe the sun on the meridian; the resulting lat is 40° 39' N
	S. 89° 58' E. on a random line bt secs 13 and 24
40.00	Set temp 1/4 sec. cor.
80.26	Intersect E. bdy of T. J. 10 lks S of cor of secs 13, 18, 19 and 24 heretofore described, Thence I run

Subdivision of T. 3 N., R. 3 W.

	S. 89° 58' W on a true line bet secs 13 and 24.
	Over mountainous land through heavy timber, Descending.
23.00	Bottom of Uintah canon and center of main channel of Uintah river 30 lks wide drains southeasterly.
27.50	West branch of Uintah river 20 lks wide drains south easterly.
34.00	Begin steep ascent over rough rocky E slope.
40.13	Point for 1/4 sec cor falls on rock in place 8×10×4 ft above ground, on which,
	Cut a cross (X) at the cor point for 1/4 sec. cor. marked 1/4 on N side of cross from which,
	An aspen 5 ins diam bears S 46° W 42 lks dist marked 1/4 S 24 B.T.
	An aspen 6 ins diam bears N 76° E. 42 lks dist marked 1/4 S 13 B.T.
	Continue abrupt ascent over rocky E slope of spur.
80.26	The cor of secs 13, 14, 23 and 24
	Land mountains.
	Soil rocky, 4th rate.
	Timber fine and aspen.
	Mountainous land heavily timbered 80.26 chs.
	N 0° 01' W. bet secs 13 and 14
	Over mountainous land through heavy timber, ascending.
3.00	Top of spur, projects Easterly. Descend.
40.00	Set a quartzite stone 17×9×5 ins. 12 ins. in the ground for 1/4 sec cor. marked 1/4 on W face from which
	An aspen 4 ins diam bears N 21° E

Subdivision of T. 3 N., R. 3 W.

	46 lks dist: marked 1/4 S 13 B.T.
	An aspen 6 ins diam bears S 15° W.
	30 lks dist - marked 1/4 S 14 B.T.
43.50	Bottom of deep ravine drains
	Easterly. Creek 5 lks wide drains same. Ascend.
60.00	Top of spur projects Southeasterly.
	Descend abruptly over slide
	rock and ledges.
80.00	Set a quartzite stone 18 x 10 x 6 ins
	12 ins in the ground for cor of secs
	11, 12, 13 and 14 marked with 4 notches
	on S and 1 notch on E edge from which
	A pine 6 ins diam. bears N 62° W 24
	lks dist - marked T 3 N R 3 W S 11 B.T.
	A pine 11 ins diam. bears N 68° 30' E
	63 lks dist: marked T 3 N R 3 W S 12 B.T.
	An aspen 12 ins diam bears S 67° W 165 lks
	dist - marked T 3 N R 3 W S 14 B.T.
	A pine 6 ins diam bears S 84° E 126
	lks dist: marked T 3 N R 3 W S 13 B.T.
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine and aspen.
	Mountainous land heavily
	timbered 80.00 chs.

	N. 89° 68' E. on a random line bet secs
	12 and 13
40.00	Set temp. 1/4 sec. cor.
80.04	Intersect E. Bdy of T. 16 lks N of cor
	of secs 7, 12, 13 and 18
	Thence I run
	N. 89° 55' W on a true line bet secs
	12 and 13.
	Over mountainous land,
	Descending over rocky west slope
	through timber.
40.02	Set a quartzite stone 16 x 10 x 6 ins
	11 ins in the ground for 1/4 sec cor.

Subdivision of T. 3 N., R. 3 W.

Chains marked 1/4 on N face from which
A pine 10 ins diam bears S 12° E
60 lks dist. marked 1/4 S 13 BT.
A pine 6 ins diam bears N 10° E
30 lks dist. marked 1/4 S 12 BT.
72.75 Center of Uintah river 50 lks wide
drains S.E. Ascend.
80.04 The cor of secs 11, 12, 13 and 14
Land mountainous.
Soil rocky, 4th rate.
Timber pine and aspen.
Mountainous land heavily timbered
80.04 chs.

Oct. 13, 1903

Oct. 14 1903: At 8h 00m a.m. l.m.t. I set
off 40°40' N on the lat arc, 7°49' S on
the decl arc and determine a
meridian with the solar at the
cor of secs 11, 12, 13 and 14.
Thence I run
N 0°01' W bet secs 11 and 12
Over mountainous land, through
heavy timber, descending over
rocky N.E. slope.
10.50 South bank of Uintah river 50 lks.
wide drains S.E.
Leave standing timber, enter
burnt timber bears N.W. and
S.E.
11.50 Ascend S.W. slope.
40.00 Set a quartzite stone 14 x 10 x 8 ins
10 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
60.00 Leave burnt timber, enter standing
timber bears N.W. & S.E.

Subdivision of T. 3 N., R. 3 W.

80.00	Set a quartzite stone 16x10x6 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 from which A fir 15 ins. diam bears N 68° E 22 lks dist - marked T 3 N R 3 W S 1 B T. A fir 5 ins diam. bears N 33° W 52 lks. dist - marked T 3 N R 3 W S 2 B T. A fir 6 ins diam bears S 37° 30' E 42 lks dist - marked T 3 N R 3 W S 12 B T. A fir 8 ins diam bears S 19° 30' W 31 lks dist - marked T 3 N R 3 W S 11 B T. Land mountainous. Soil stony 3rd and 4th rate Timber cedar and fir 3050 chs. Mountainous land 8000 ch.
	S 89° 55' E on a random line bet secs 1 and 12.
40.00	Set temp 1/4 sec cor.
80.18	Intersect E. bdy of T 3, 12 lks N of cor secs. 1, 6, 7 and 12 heretofore described. Thence I run N 89° 30' W on a true line bet secs 1 and 12. Land rough mountainous land, through heavy timber, descending.
20.00	Leave heavy timber, enter scattering timber trees N and S
29.00	Descend abruptly over broken, rocky mtn slope.
30.00	Enter slide rock, leave timber. bears N and S
40.09	Set a quartzite stone 20x10x8 ins 15 ins in mound of rock 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.

Subdivision of T. 3 N., R. 3 W.

chains	
	Pits impracticable.
46.00	Enter timber bears N. and S.
80.18	The cor of secs 1, 2, 11 and 12.
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine and fir. 64.18 chs.
	Mountainous land 80.18 chs.
	Oct. 14, 1903; At 12h 00m m.t. sky
	overcast and observation for
	lat. impossible.

N. 0° 01' W. on a random line bet secs 1 and 2.

40.00	Set temp 1/4 sec cor.
79.65	Intersect N bdy of T. 3 N. 3 Mks S. 89° 60' W.
	of cor of secs 1, 2, 35 and 36 heretofore
	described.
	Thence I run
	South on a true line bet secs 1 and 2
	over mountainous land. Through
	heavy timber, descending.
15.00	Spring branch 3 lks wide drains S.E.
	Ascend.
28.00	Spur projects easterly. Descend.
32.00	East fork of Umlah River 40 lks wide
	drains S.E. Ascend gradually
	along W slope.
39.65	Set a quartzite stone 16 x 10 x 8 ins.
	11 ins in the ground for 1/4 sec cor.
	marked 1/4 on W face from which
	A fir 4 ins diam bears N 79° E 8 lks
	dist marked 1/4 S 1 B.T.
	A fir 6 ins diam bears S 8 5° W 12 lks
	dist marked 1/4 S 2 B.T.
78.00	Top of spur projects westerly. Descend.
79.65	The cor of secs 1, 2, 11 and 12
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine, aspen, and fir.

Subdivision of T. 3 N, R. 3 W.

ins.	Mountainous land, heavily timbered 79.65 chs. Oct 14, 1903.
	Oct. 15 1903. At 8h 00m a.m. l.m.t. I set off 40°37' N on the lat arc, 8°12' S on the decl arc and determine a meridian with the solar at the cor of secs 2, 3, 34 and 35 on S bdy of Tp heretofore described. Thence I run N. 0° 02' W. bet secs 34 and 35 Over mountainous land through heavy timber, ascending.
8.00	South side of bench bears E. & W. Leave timber enter open.
40.00	Set a quartzite stone 16×10×4 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. bore 1 1/2 ft. high W of cor. Pits impracticable.
79.00	Leave open enter timber bears E and W.
80.00	Set a quartzite stone 16×10×4 ins. 11 ins in the ground for cor of secs 26, 27, 34 and 35 marked with 1 notch on S and 2 notches on E edge from which, A pine 11 ins diam bears N 55° E 9 lks dist. marked T 3 N R 3 W S 26 B T. A pine 10 ins diam bears S 38° E 43 lks dist. marked T 3 N R 3 W S 35 B T. A pine 14 ins diam bears S 57° W 45 lks dist. marked T 3 N R 3 W S 34 B T. A pine 5 ins diam bears N 36° W 122 lks dist. marked T 3 N R 3 W S 27 B T. Land mountainous. Soil stony, 4th rate.

Subdivision of T. 3 N., R. 3 W.

Chains	
	Timber pine and fir 9.00 chs. Mountainous land 80.00 chs.
	S. 89° 58' E. on a random line bet. secs 26 and 35.
4.00	Set temp. 1/4 sec cor.
80.32	Intersect N and S line 20 lks S of cor of secs 25, 26, 35 and 36
	Thence I run S. 89° 53' W on a true line bet secs 26 and 35
	Thro mountainous land through heavy timber, descending.
9.00	Gulch drains S.E. ascend.
20.00	Top of spur projects S.E. descend.
34.00	Rabine drains S.E. ascend.
40.16	Set a quartzite stone 16 x 10 x 6 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on N face from which. An aspen 8 ins diam. bears N 46° E 44 lks dist. marked 1/4 S 26 B.T. An aspen 6 ins diam bears S 55° W 64 lks dist marked 1/4 S 35 B.T.
65.00	Top of ascent, East side of knob bears N and S.
80.32	The cor of secs 26, 27, 34 and 35. Land mountainous. Soil stony, 3rd rate. Timber pine and aspen Mountainous land heavily timbered 80.32 chs. Dec. 15, 1903: at this cor I set 8° 16' E on the decl arc and at 12h 00m m. l.m.t. observe the sun on the meridian; the resulting lat is 40° 38' N.

Subdivision of T. 3 N., R. 3 W.

Chains.	
	N 0°02' W bet secs 26 and 27
	Ans brch through heavy timber
40.00	Set a quartzite stone 18x10x9 ins.
	10 ins in the ground for 1/4 sec cor
	marked 1/4 on W. face from which,
	A pine 12 ins diam bears S 14° E
	20 lks dist: marked 1/4 S 26 B T.
	A pine 8 ins diam bears N 54°30' W
	37 lks dist marked 1/4 S 27 B T.
45.06	Leave timber enter open bears
	E and W.
74.00	Leave open, enter timber bears
	E. & W. Descend. Leave brch.
80.00	Set a quartzite stone 16x14x8 ins
	11 ins in the ground for cor to secs
	22, 23, 26 and 27, marked with
	2 notches on S and E edges from
	which,
	A pine 8 ins diam bears N 71° E 13 lks
	dist marked T 3 N R 3 W S 23 B T.
	A pine 6 ins diam bears S 49°30' E 27 lks
	dist marked T 3 N R 3 W S 26 B T.
	A pine 14 ins diam bears S 7° W 67 lks
	dist marked T 3 N R 3 W S 27 B T.
	A pine 8 ins diam bears N 49° W 156 lks
	dist marked T 3 N R 3 W S 22 B T.
	Land mountainous.
	Soil stony, 3rd rate.
	Timber, pine, spruce, and fir 51.00 chs.
	Mountainous land or heavily timbered
	land 80.00 chs.

	N. 89°53' E. on a random line bet.
	secs 23 and 26.
40.00	Set temp 1/4 sec cor.
80.16	Intersect N and S line 5 lks N of
	cor of secs. 23, 24, 25 and 26
	Thence I run
	S 89°55' W on a true line

Subdivision of T.3N., R.3W.

6.	bet secs 23 and 26
	Over mountainous land, through heavy timber, ascending.
10.00	Spur projects Southeasterly.
	Thence along N side of ravine ascending gradually.
40.08	Set a quartzite stone 17×9×5 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which, An aspen 4 ins diam bears S16°E. 52 lks dist marked 1/4 S 26 BT. An aspen 5 ins diam bears N.62°E 18 lks dist marked 1/4 S 23 BT.
63.00	Bottom of ravine drains S.E. Ascend.
80.16	The cor of secs 22, 23, 26 and 27 Land mountainous, Soil stony, 4th rate. Timber pine and aspen. Mountainous land heavily timbered 80.16 chs.
	Oct. 15, 1903;

	Oct. 16 1903;- At 8h 00m a.m. l.m.t. I set off 40°39'N on the lat arc, 8°34'S on the decl. arc and determine a meridian with the solar at the cor of secs 22, 23, 26 and 27
	Thence 1 run
	N 0° 02' W bet secs 22 and 23
	Over mountainous land through heavy timber, descending.
3.00	Head of ravine drains S.E. Ascend.
40.00	Set a quartzite stone 12×8×6 ins 8 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which, A pine 24 ins in diam bears S.33°E. 38 lks dist marked 1/4 S 23 B.T.

Subdivision of T 3 N., R 3 W.

Chains.	
	A fence 14 ins chain bears S 88° W. 25 lks dist marked 1/4 S 22 23 T.
65.00	Descends Steep N. W. slope.
78.00	Ravine chains N. W. ascend.
80.00	Set a quartzite stone 18 x 10 x 6 ins 12 ins in the ground for cor to secs. 14, 15, 22 and 23 marked with 3 notches on S and 2 notches on E edge from which, A fence 8 ins chain bears N 69° 30' E 19 lks dist marked T 3 N R 3 W S 14 B T. A fence 10 ins chain bears S 70° E 6 lks dist marked T 3 N R 3 W S 22 23 B T. A fence 16 ins chain bears S 60° W 17 lks dist marked T 3 N R 3 W S 22 23 B T. A fence 12 ins chain bears N 19° W 31 lks dist marked T 3 N R 3 W S 15 23 B T. Land mountainous, Soil stony, 3rd rate, Timber fence and fir. Mountainous lands heavily timbered 80.00 chs.

N. 89° 55' E. on a random line bet secs 14 and 23.

40.00	Set temp 1/4 Sec cor.
80.20	Intersect N and S line 10 lks S of cor of secs 13, 14, 23 and 24 Thence I run S. 89° 51' W. on a true line bet secs 14 and 23 thro mountainous lands through heavy timber ascending along S slope of ridge.
40.10	Set a quartzite stone 18 x 12 x 5 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N. face from which A fence 10 ins chain bears N 16° W 18 lks dist marked 1/4 S 14 B T.

Chains	
	A fir 6 ins diam bears S 28° E 27 lks dist- marked 1/4 S 2 3 0 3 T.
73.00	Westerly end of ridge bears N.W. and easterly. Descends.
80.20	The cor of secs 14, 15, 22, and 23. Land mountainous. Soil stony, 4th rate. Timber fir, fir and aspen. Mountainous land heavily timbered 80.20 chs. Oct. 16 1903. At 12h 00m m. m. l.m.t. sky overcast and observation for lat impossible.
	N 0° 02' W bet secs 14 and 15 thro mountainous lands through heavy timber, ascending.
8.00	Spur projects N.W. Descends steep rocky slope.
35.00	Creek 5 lks wide in bottom of ravine drains N.E. ascend.
40.00	Set a quartzite stone 18x10x6 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W. face from which a fire 14 ins diam bears N 88° E 23 lks dist- marked 1/4 S 14 B T. A fire 17 ins diam bears S 60° W 27 lks dist- marked 1/4 S 15 B T.
70.00	Top of ridge bears easterly and westerly. Low timber bears E & W. and descends over slide rock.
80.00	Set a quartzite stone 24x10x8 ins 18 ins in the ground for cor of secs 10, 11, 14 and 15 — marked with 4 notches on S and 2 notches on E edge and raise a mound of stone 2 ft base

Subdivision of T. 3 N., R. 3 W.

Chains	
	1½ ft high W. of cor.
	Pits impracticable.
	From cor a pine 36 ins diam
	bears S55°E 69 lks dist marked
	T 3 N R 3 W S 14 B.T. No other
	bearing trees available.
	Land mountainous
	Soil stony, 4th rate.
	Timber pine, fir and aspen 70.00 chs.
	Mountainous land 80.00 chs.
	N 89°51'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 11 lks
	N of cor of secs 11, 12, 13 and 14
	Thence run
	S 89°56' W on a true line bet sec.
	11 and 14
	Over mountainous land through
	heavy timber, ascending steep
	rocky N slope.
40.04	Set a quartzite stone 18×12×10
	ins 12 ins in the ground for 1/4 sec
	cor marked 1/4 on N face from which,
	a pine 12 ins diam bears N 28°30'E
	49 lks dist marked 1/4 S 11 B.T.
	a pine 12 ins diam bears S 57°E
	37 lks dist marked 1/4 S 14 B.T.
78.00	Leave timber bears N and S
	Enter rock slide.
80.08	The cor of secs 10, 11, 14 and 15.
	Land mountainous.
	Soil rocky, 4th rate.
	Timber pine and fir 78.00 chs.
	Mountainous land 80.08 chs.
	Oct. 16, 1903.

Subdivision of T. 3 N, R 3 W.

Chains.	
	Oct. 17 1903. At 8h 00m a.m. l.m.t. I set off 40° 40' N on the lat arc 8° 56' 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 N 0° 02' W bt secs 10 and 11 Over mountainous land over broken rocky slope, descending.
5.00	Leave slide rock enter timber bears N.W. and S.E.
27.50	Ravine and creek 5 lks wide drains easterly, ascend.
40.00	Set a quartzite stone 20 x 15 x 10 ins 15 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which, An aspen 8 ins diam bears S 75° W 22 lks dist marked 1/4 S 10 BT. An aspen 8 ins diam bears N 86° E 58 lks dist marked 1/4 S 11 BT.
55.00	Top of ridge bears N.W. and S.E. Descend.
80.00	Set a quartzite stone 15 x 10 x 4 ins 10 ins in the ground for cor of secs 2, 3, 10 and 11 marked with 5 notches on S and 2 notches on E edge from which, A pine 14 ins diam bears N 22° E 12 lks dist marked T 3 N R 3 W S 2 BT. A pine 10 ins diam bears S 38° E 24 lks dist marked T 3 N R 3 W S 11 BT. A pine 11 ins diam bears S 56° W 35 lks dist marked T 3 N R 3 W S 10 BT. A pine 14 ins diam bears N 53° W 33 lks dist marked T 3 N R 3 W S 3 BT. Land mountainous. Soil stony, 4th rate. Timber pine, aspen and fir. Mountainous land 80.00 chs, Heavily timbered 75.00 chs.
Transpose	

	N. 89° 56' E. on a random line bet secs 2 and 11.
40.00	Set temp 1/4 sec cor.
80.10	Intersect N. and S. line 3 lks S. of cor of secs 1, 2, 11 and 12. Thence I run S. 89° 56' W. on a true line bet secs 2 and 11. Thru mountainous land through heavy timber, descending.
22.70	East fork of Uintah river 40 lks wide drains Southerly. Ascend.
32.00	Point of spur projects S. E. Ascend.
38.60	West fork of Uintah river 20 lks wide drains S. E. ascend.
40.05	Set a quartzite stone 30 x 20 x 10 ins 23 ins in the ground for 1/4 sec cor marked 1/4 on N face from which, A willow 5 ins diam bears N 12° E 15 lks dist marked 1/4 S 2 B T. A willow 5 ins diam bears S 30° E 26 lks dist marked 1/4 S 11 B T.
43.00	Cliff 75 ft high bears N. W. and S. E. Ascend abruptly.
80.10	The cor of secs 2, 3, 10 and 11 Land mountainous. Soil stony, 4th rate. Timber, pine, aspen and willow. Mountainous land with heavy timber on 80.10 chs.

Oct. 17, 1903: at this cor I set off 9° 01' S on declination and at 12h 00m 44s M. S. T. observe the sun on the meridian; the resulting lat is 40° 41' N.

Subdivision of T. 3 N., R. 3 W.

Chains	
	N 0°02' W on a random line bet secs 2 and 3
40.00	set temp 1/4 sec cor.
79.85	Intersect N bdy of Tp. 12 lks S 89°50' W of cor of secs 2, 3, 34 and 35 heretofore described. Thence I run S 0°03' W on a true line bet secs 2 and 3 Over mountainous land, descending steep rocky slope through heavy timber.
39.85	Set a quartzite stone 16×12×10 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W face from which A pine 8 ins diam bears S 80° E 12 lks dist marked 1/4 S 2 BT. A pine 6 ins diam bears S 79° W 15 lks dist. marked 1/4 S 3 BT.
60.00	West fork of Uintah river 20 lks wide drains S.E. ascend.
79.85	The cor of secs 2, 3, 10 and 11. Land mountainous. Soil rocky, 4th rate. Timber pine, aspen, willow and fir. Mountainous land heavily timbered 79.85 chs. Oct. 17-1903.

Oct. 18-1903; At 8h 00m a.m. l.m.t. I set off 40°37' N on the lat arc 9°18' S on the decl arc and determine a meridian with the solar at the cor of secs 2, 3, 34 and 35 on S. bdy. of Tp. heretofore described. Thence I run N 0°02' W bet secs 33 and 34 Over mountainous land through

Subdivision of T. 3 N., R. 3 W.

Chains.	
	heavy timber, descending.
3.00	Creek 10 lks wide in bottom of gulch drains S.W. Ascend along easterly slope of ridge through heavy timber and dense undergrowth.
40.00	Set a quartzite stone 18×12×10 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face from which, A pine 6 ins diam bears N71°E 17 lks dist marked 1/4 S 34 B.T. A pine 7 ins diam bears S70°W 9 lks dist marked 1/4 S 33 B.T.
80.00	Set a quartzite stone 18×12×10 ins 12 ins in the ground for cor of secs 27, 28, 33 and 34 marked with 1 notch on S and 3 notches on E edge from which, An aspen 5 ins diam bears N62°E 40 lks dist marked T 3 N R 3 W S 27 B.T. A pine 8 ins diam bears S68°E 96 lks dist marked T 3 N R 3 W S 34 B.T. A pine 9 ins diam bears S8°30'W 20 lks dist marked T 3 N R 3 W S 33 B.T. A pine 9 ins diam bears N22°30'W 111 lks dist marked T 3 N R 3 W S 28 B.T. Land mountainous. Soil stony, 4th rate. Timber pine and aspen. Mountainous land, heavily timbered 80.00 chs.
	S.89°58'E on a random line bet secs 27 and 34.
79.90	Intersect N and S line 5 lks S of cor of secs 26, 27, 34 and 35 Thence I run West on a true line bet secs 27 and 34

Chains.	
	Crs mountainous lands, through heavy timber.
1.00	Land timber bears N.W. and S.E. Enter open.
26.00	Leave open bears N and S, enter timber, descends stiff rocky slope.
39.95	Set a quartzite stone 16×8×6 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on N face from which, An aspen 5 ins diam bears N 28° E 17° lks dist marked 1/4 S 27 B.T. An aspen 6 ins diam bears S 52° E 27 lks dist marked 1/4 S 34 B.T.
61.00	Creek 10 lks wide in bottom of gulch drains southerly, ascend.
79.90	The cor of secs 27, 28, 33 and 34 Land mountainous. Soil rocky, 4th rate. Timber pine and aspen 54.90 chs. Mountainous lands 79.90 chs. Oct. 18, 1903. At this cor I set 9° 23' S on the decl arc, and at 12h 00m m. t. observe the sun on the meridian; the resulting lat is 40° 38' N

	N 0° 02' W bet secs 27 and 28 Crs mountainous lands, through heavy timber and dense underbrush, ascending along E slope of ridge.
40.00	Set a quartzite stone 18×12×10 ins 12 ins in the ground for 1/4 sec cor, marked 1/4 on N face from which, A pine 6 ins diam bears S 55° E 13 lks dist - marked 1/4 S 27 B.T. A pine 6 ins diam bears N 61° W 7 lks dist. marked 1/4 S 28 B.T.
80.00	Set a quartzite stone 18×7×7 ins

Subdivision of T. 3 N., R. 3 W.

Chains	
	12 ins in N ground for cor of secs. 21, 22, 27 and 28 marked with 2 notches on S and 3 notches on E edge from which, A pine 8 ins diam bears N 21° 30' E 54 lks dist - marked T 3 N R 3 W S 22 B.T. A pine 9 ins diam bears S 70° 30' E 10 lks dist - marked T 3 N R 3 W S 27 B.T. A pine 16 ins diam bears S 48° 15' W 76 lks dist - marked T 3 N R 3 W. S 28 B.T. A pine 10 ins diam bears N 3° 30' W 97 lks dist - marked T 3 N R 3 W S 21 B.T. Land mountainous, Soil rocky, 4 M sale. Timber pine and aspen. Mountainous lands heavily timbered 8000 chs.
	East on a random line bet secs 22 and 27.
4.000	Set bing 1/4 sec cor.
79.92	Intersect N and S line 15 lks S of cor of secs 22, 23, 26 and 27.
	Thence I run S 89° 54' W on a true line bet secs 22 and 27.
	Thro mountainous land Through heavy timber, ascending.
4.00	Leave timber bears N and S, Enter Jeff.
15.00	Begin gradual descent.
22.00	Leave Jeff bears N and S. Enter timber, descend abruptly.
39.96	Set a quartzite stone 16 x 12 x 10 ins 11 ins in the ground for 1/4 sec cor. marked 1/4 on N face from which, A pine 6 ins diam bears N 3° E 28 lks dist - marked 1/4 S 22 B.T. A pine 8 ins diam bears S. 42° W.

Subdivision of T. 3N, R. 3W.

Chains 38 lks dist marked 1/4 S 27 BT.
55.50 Creek 6 lk wide in gulch drains southerly. Ascend.
74.00 Spur projects southerly, descend gradually.
79.92 The cor of secs 21, 22, 27 and 28.
Land mountainous.
Soil rocky, 4th rate.
Timber pine and aspen. 61.92 chs.
Mountainous land 79.92 chs.
Oct. 18 - 1903.

Oct. 19 1903; At 8h 00m a.m. l.m.t.
I set off 40°39'N on the lat arc 9°40' S on the decl arc and determine a meridian with the solar at the cor. of secs 21, 22, 27 and 28
Thence I run
N 0°02' W bt secs 21 and 22
Over mountainous land through heavy timber ascending.
10.00 Top of ascent. Descend.
18.00 Head of ravine drains S.E. Ascend
40.00 Point for 1/4 sec cor falls on rock in place, 36 x 24 x 6 ins above ground on which.
Cut a cross (X) at the corner joint for 1/4 sec cor marked 1/4 W of cross from which,
A pine 14 ins diam bears N 1°30' W 307 lks dist - marked 1/4 S 21 BT,
A pine 12 ins diam bears N 25° E 204 lks dist marked 1/4 S 22 BT,
58.00 Top of ridge bears E and W. Descend.
77.00 Creek 4 lks wide in gulch drains N.E. Ascend.
80.00 Set a granite stone 17 x 12 x 6 ins 12 ins in the ground for cor of

Subdivision of T. 3 N., R. 3 W.

Chains.	
	secs 15, 16, 21 and 22 marked with 3 notches on S and E edge from which,
	A fire 11 ins diam bears N48° E 72 lks dist marked T 3N R 3W S. 16 B.T.
	A fire 12 ins diam bears S42° E 92 lks dist: marked T 3N R 3W S 22 B.T.
	A fire 15 ins diam bears S17° W 74 lks dist marked T 3N R 3W S 21 B.T.
	A fire 8 ins diam bears N24° W 45 lks dist: marked T 3N R 3W S16 B.T.
	Land mountainous.
	Soil stony, 4th rate.
	Timber fine fir, and spruce.
	Mountainous land, heavily timbered 80.00 chs.

	N 89° 54' E on a random line bet secs 15 and 22
40.00	Set stone 1/4 sec cor.
80.10	Intersect N and S line 20 lks N of cor of secs 14, 15, 22 and 23
	Thence I run N 89° 57' W on a true line bet secs 15 and 22,
	over mountainous land through heavy timber, descending.
7.00	Ravine drains northerly, ascend.
14.00	Spur projects N. descend.
19.00	Ravine drains N ascend.
24.00	Spur projects N. descend.
34.50	Ravine drains N. ascend.
37.00	Spur projects N, descend.
40.05	Set a quartzite stone 16x14x12 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on N face, from which,
	A fire 29 ins diam bears N 25° E 15 lks dist marked 1/4 S 15 B.T.

Subdivision of T. 3 N., R. 3 W.

Chains	
	A pine 12 ins diam bears S 37° W. 27 lks dist - marked 1/4 S 22 B.T.
40.50	Head of ravine drains N, Ascend.
48.00	Spur projects N. Ascend.
76.00	Spring branch 3 lks wide in gulch drains N.E. Ascend.
80.10	The cor. of secs 15, 16, 21 and 22 Land mountainous. Soil stony, 3rd rate. Timber fir, fir, and spruce. Mountainous land heavily timbered 80.10 chs. Oct 19, 1903; At 12h 00m m. l.m.t. Sky overcast, observation for lat. impossible.

N 0° 02' W bet secs 15 and 16.
Ors mountainous land through heavy timber, ascending.

1.00	Top of spur projects easterly, Descend.
9.00	Spring branch 5 lks wide in ravine drains north easterly. Ascend.
40.00	Set a quartzite stone 18 x 10 x 6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which, A pine 10 ins diam bears N. 80° E. 50 lks dist marked 1/4 S 15 B.T. A fir 6 ins diam bears S 44° W 40 lks dist marked 1/4 S 16 B.T.
80.00	Set a quartzite stone 17 x 10 x 7 ins 12 ins in the ground for cor of secs 9, 10, 15 and 16 marked with 4 notches on S and 3 notches on E edge from which, A fir 14 ins diam bears N 60° 30' E 60 lks dist - marked T 3 N R 3 W S 10 B.T.

Subdivision of T. 3 N., R. 3. W.

Chains.	
	A pine 36 ins diam bears S 8 ½° E 48 lks dist - marked T 3 N R 3 W S 15 B.T. A pine 7 ins diam bears S 32° 30' W 147 lks dist marked T 3 N R 3 W S 16 B.T. A spruce 6 ins diam bears N 76° W. 254 lks dist marked T 3 N R 3 W S 9 B.T. Land mountainous. Soil rocky, 3rd and 4th rate. Timber pine, fir and spruce. Mountainous land heavily timbered 80 chs. Oct. 19 - 1903
	Oct. 20 1903:- At 8 h 00 m a.m. l.m.t. I set off 40° 40' W on the bat arc. 10° 01' S on the declinr and determine a meridian with the solar at the cor of secs 9, 10, 15 and 16. Thence I run. S 89° 57' E on a random line bet secs 10 and 15;
4.00	Set temp 1/4 sec. cor.
80.15	Intersect N and S line 12 lks S of cor of secs 10, 11, 14 and 15. Thence I run S 89° 58' W on a true line bet secs 10 and 15; Very mountainous land. ascending through slide rocks.
40.07	Set a quartzite stone 18 x 12 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 1½ ft high W of cor. Pits impracticable.
80.00	Enter scattering timber bears N and S. Still in slide rock.

Subdivision of T. 3 N., R. 3 W.

70.00	T of J ridge bears N.W. and S.E. descend gradually along S slope.
80.15	The cor of secs 9, 10, 15 and 16. Land mountainous Soil rocky, 4th rate. Timber scattering pine and fir 30.15 ch. mountainous land 80.15 chs. Lat. 20 1903: At this cor I set Pf 10° 06' S on the decl. arc and at 12h 00m m.l.n.t. observe the sun on the meridian; the resulting lat is 40° 40' N.
	N 0° 02' W bet secs 9 and 10 thro mountainous land through heavy timber, ascending.
3.00	Scale timber bears E & W.
20.00	T of J ridge bears SE & NW descends abruptly over slide rock.
40.00	Set a quartzite stone 16 x 10 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 1½ ft high W of cor. Pits impracticable.
45.00	Ravine drains easterly; 100 ft below top of ridge, enters timber bears E and W. ascend.
80.00	Set a quartzite stone 16 x 12 x 4 ins 11 ins in the ground for cor of secs 3, 4, 9 and 10 marked with 3 notches on S and 3 notches on E edge from which, An aspen 6 ins diam bears N 56° E 42 lks dist marked T3N R3W S 3 B.T. A pine 8 ins diam bears S 37° E 23 lks dist marked T3N R3W S 10 B.T. A pine 8 ins diam bears S 70° W 21 lks dist marked T3N R3W S 9 B.T.

Subdivision of T. 3 N., R. 3 W.

	An aspen 7 ins diam bears N 32° W 5.8 lks dist - marked T 3 N R 3 W S 4 0 3 T.
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine and aspen 38.00 chs.
	Mountainous land, 80.00 chs.
	N 89° 58' E on a random line bet secs 3 and 10
40.00	Set brass 1/4 sec cor.
80.12	Intersect N and S line 11 lks S of cor of secs 2, 3, 10 and 11
	Thence I run
	S 89° 53' W on a true line bet secs 3 and 10
	Cors mountainous land, ascending steep rocky & slope through timber.
10.00	Enters ledges bearing N and S ascend abruptly.
20.00	Leave ledges bearing N and S ascend.
40.06	Set a quartzite stone 18 x 12 x 6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which, An aspen 6 ins diam bears N 10° W 27 lks dist - marked 1/4 S 3 1 3 T. An aspen 6 ins diam bears S 86° E 16 lks dist marked 1/4 S 10 3 T.
45.00	Top of ridge bears N. W and S. E. Descend.
80.12	The cor of secs 3, 4, 9 and 10 Land mountainous. Soil rocky, 4th rate. Timber pine and aspen. Mountainous land 80.12 chs.

Subdivision of T. 3 N., R. 3 W.

Chains	
	N 0° 02' W on a random line bet secs 3 and 4
40.00	Set temp 1/4 sec cor.
79.95	Intersect N bdy of Tp 12 lks S 89° 50' W of cor of secs 3, 4, 33 and 34 heretofore described.
	Thence I run
	S 0° 03' W on a true line bet secs 3 and 4
	Over mountainous land through heavy timber, ascending.
16.00	Leave timber bears N.W. and S.E.
	Ascend over slide rock.
38.00	Top of steep ascent, Enter timber bears E & W.
39.95	Set a quartzite stone 18 x 12 x 4 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which
	A pine 13 ins diam bears S 88° 30' E 20 lks dist marked 1/4 S 3 B.T.
	A pine 9 ins diam bears S 78° 30' W 30 lks dist marked 1/4 S 4 B.T.
	Cor on ridge bearing westerly and southeasterly.
41.00	Begin abrupt descent.
79.95	The cor of secs 3, 4, 9 and 10
	Land mountainous.
	Soil rocky, 4th rate.
	Timber pine and aspen 57.95 chs.
	mountainous land 79.95 chs.
	Oct 20 - 1903.

Oct. 21 1903: at 8h 00m a.m. l.m.t. I set off 40° 37' N on the lat arc 10° 23' S on the decl arc and determine a meridian with the solar at the cor of secs 4, 5; 32 and 33 on S bdy of Tp. heretofore described.

Thence I run

N 0° 03' W bet secs 32 and 33

Subdivision of T. 3 N, R. 3 W

Chains	
	Over mountainous land through heavy timber, descending.
17.50	Radius drains easterly, ascend.
31.00	Top of ridge bears north west and south east. Descend.
40.00	Set a quartzite stone 15×10×8 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which. A pine 15 ins diam bears N 65° W 15 lks dist marked 1/4 S 3 2 B T. A pine 16 ins diam bears N 59° E 23 lks dist marked 1/4 S 3 B T.
63.70	Spring branch 5 lks wide in gulch drains S.E. [illegible]
80.00	Joint for sec cor falls on rock in place 2×2×1 ft above ground on which cut a cross (X) at the cor joint for cor of secs 27, 28, 32 and 33; marked 1 notch on S and 4 notches on E of cross from which. A pine 13 ins diam bears N 35° 30' E 48 lks dist marked T 2 N R 3 W S 2 8 B T. An aspen 10 ins diam bears S 52° E 30 lks dist marked T 2 N R 3 W S 2 2 B T. An aspen 5 ins diam bears S 35° 30' W 11 lks dist marked T 2 N R 3 W S 2 2 B T. An aspen 11 ins diam bears N 31° W 37 lks dist marked T 2 N R 3 W S 2 9 B T. Land mountainous. Soil rocky, 3rd rate. Timber pine and aspen. Mountainous land heavily timbered 80.00 chs.

	S 89° 58' E on a random line bet secs 28 and 33.
40.00	Set temp 1/4 sec cor.
80.15	Intersect N and E line 10 lks S of cor of secs 27, 28, 32 and 34.

Subdivisions of T. 3 N., R. 3 W.

Chains	
	Thence I run
	S 89°58' W on a true line bet secs 28 and 33.
	Over mountainous land through heavy timber ascending.
5.00	Top of ridge bears N and S. Descend.
25.00	Ravine drains southerly. Ascend.
40.07	Set a quartzite stone 17x10x5 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N. face from which, A pine 9 ins diam bears S 10° W 37 lks dist marked 1/4 S 33 BT. A pine 8 ins diam bears N 72°30' E 20 lks dist marked 1/4 S 28 BT.
55.00	Top of ridge bears N.W. and S.E. Small lake bears south 40.00 chs dist. Descend.
80.15	The cor of secs 28, 29, 32 and 33. Land mountainous. Soil rocky, 3rd rate. Timber pine, fir and aspen. Mountainous land heavily timbered 80.15 chs. Oct. 21 1903: at this cor I set off 10°28' S on the declare and at 12h 00m m.l.m.t. observe the sun on the meridian; the resulting lat is 40°38' N.
	N 0°03' W bet secs 28 and 29 Over mountainous land through heavy timber, ascending.
40.00	Set a quartzite stone 18x12x6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which A pine 6 ins diam bears N 75°30' E 98 lks dist marked 1/4 S 28 BT. A pine 7 ins diam bears S 11°30' W 99 lks dist marked 1/4 S 29 BT.

Subdivision of T. 3 N., R. 3 W.

80.00	Set a quartzite stone 15 x 12 x 6 ins 10 ins in the ground for cor of secs 20, 21, 28 and 29 marked with 2 notches on S and 4 notches on E edge from which A pine 8 ins diam bears N 70° E 23 lks dist marked T 3 N R 3 W S 21 B T. A pine 9 ins diam bears S 43° 30' E 19 lks dist marked T 3 N R 3 W S 28 B T. A pine 6 ins diam bears S 39° 30' W 39 lks dist marked T 3 N R 3 W S 29 B T. A pine 16 ins diam bears N 89° 30' W 23 lks dist marked T 3 N R 3 W S 20 B T. Land mountainous. Soil rocky, 4th rate. Timber pine, fir and aspen. Mountainous land, heavily timbered
	80.00 chs.

N 89° 30' E on a random line bet secs 21 and 28

40.00	Set temp 1/4 sec cor.
80.00	Intersect N and S line at the cor of secs 21, 22, 27 and 28
	Thence 9 runs.
	S 89° 6' W on a true line bet secs 21 and 28
	Thru mountainous land Through heavy timber, ascending
13.00	Ridge bears N and S. Descend.
27.00	Ravine drains S ascend
40.00	Set a quartzite stone 16 x 8 x 4 ins 11 ins in the ground for 1/4 sec cor marked 1/4 on N face from which A pine 14 ins diam bears N 9° E 34 lks dist marked 1/4 S 21 B T. A pine 11 ins diam bears S 50° W 7 lks dist marked 1/4 S 28 B T Cor on spur projecting southeasterly. Descend.

Subdivision of T. 3 N., R. 3 W.

Chains	
54.00	Ravine drains S.E. ascend
77.00	Ridge bears N.W. and S.E. Descend.
80.00	The cor of secs 20, 21, 28 and 29.
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine and fir.
	Mountainous land heavily timbered
	80.00 chs.
	Oct. 21 - 1903.

Oct. 22 - 1903: At 8h 00m a.m. l.m.t. I set off 40° 39' N on the lat arc 10° 44' S on the decl arc, and determine a meridian with the solar at the cor of secs 20, 21, 28 and 29.

Thence I run

N 0° 03' W bet secs 20 and 21

Over mountainous land through heavy timber, ascending.

16.00	Top of ridge bears N.W. and S.E.
	Leave timber, descend.
33.00	Head of ravine drains S.E. ascend.
38.00	Enter timber, bears N.W. and S.E.
40.00	Set a quartzite stone 24 x 20 x 15 ins 18 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which,
	A pine 15 ins diam bears N 51° E 86 lks dist. marked 1/4 S 21 BT.
	A pine 14 ins diam bears N 71° 30' W 87 lks dist. marked 1/4 S 20 BT.
65.00	Top of main ridge bears E and W Descend.
75.00	Ravine drains easterly, Ascend.
80.00	Set a quartzite stone 26 x 14 x 10 ins 19 ins in the ground for cor of secs. 16, 17, 20 and 21 marked with 3 notches on S and 4 notches on E edge. from which,
	A pine 10 ins diam bears N 57° E

Subdivision of T. 3 N., R. 3 W.

Chains	
	12 lks dist marked T3NR3W S16 BT.
	A spruce 6 ins diam bears S56°15'E 65 lks dist marked T3NR3W S21 BT.
	A pine 16 ins diam bears S48°W 79 lks dist marked T3NR3W S20 BT.
	A pine 16 ins diam bears N13°W 25 lks dist marked T3NR3W S17 BT.
	Land mountainous.
	Soil rocky, 4th rate.
	Timber pine, fir and spruce 58.00 chs.
	Mountainous land 80.00 chs.
	N89°58'E on a random line bet secs 16 and 21
40.00	Set temp 1/4 sec cor.
80.10	Intersect N and S line 11 lks S of cor of secs 15, 16, 21 and 22.
	Thence I run
	S89°53'W on a true line bet secs 16 and 21.
	Over mountainous land through heavy timber ascending along ridge spur projecting Easterly.
40.05	Set a quartzite stone 18x12x4 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N. face from which.
	A pine 13 ins diam bears S49°30'E 32 lks dist marked 1/4 S21 BT.
	A pine 9 ins diam bears N74°30'E 25 lks dist marked 1/4 S16 BT.
80.10	The cor of secs 16, 17, 20 and 21.
	Land mountainous.
	Soil stony, 4th rate.
	Timber pine, spruce and fir.
	Mountainous land heavily timbered 80.10 chs.
	Oct 22 1903: At this cor. I set off 10°49' S on the decl arc and at 12h00m m.l.m.t. observe the sun on the

Chains	
	meridian; the resulting lat is 40°39'N.
	N0°03'W. bet secs 16 and 17. Over mountainous land through heavy timber.
3.00	Top of ridge spur projecting easterly. Descend abruptly.
11.50	Spring branch 5 lks wide in gulch drains easterly. Small lake bears west 10 chs. Ascend.
40.00	Set a quartzite stone 16×8×4 ins 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W face from which. A pine 8 ins diam bears N39°E 16 lks dist marked 1/4 S16 BT. A pine 20 ins diam bears S22°30'W 53 lks dist marked 1/4 S 17 BT.
68.00	Top of abrupt ascent, leave timber bears E and W. ascend gradually.
80.00	Top of ridge bears nearly E and W. Set a quartzite stone 16×8×6 ins 11 ins in the ground for cor of secs 8, 9, 16 and 17 marked with 4 notches on S and E edge and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable. Land mountainous. Soil stony, 3rd and 4th rate. Timber pine and fir 68.00 chs. Mountainous land 80.00 chs.
	N89°53'E on a random line bet secs 9 and 16.
40.00	Set temp 1/4 sec cor.

Subdivision of T. 3 N., R. 3 W.

Chains	
80.02	Intersect N and S line 16 lks N of cor of secs 9, 10, 15 and 16. Thence I run West on a true line bet secs 9 and 16. Over mountainous land through scattering timber ascending along broken S slope of ridge trading E and W.
30.00	Leave timber, enter open bars N. E. and S. W.
40.01	Set a quartzite stone 16×10×6 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
78.00	Top of ridge bars easterly and westerly.
80.12	The cor of secs 8, 9, 16 and 17. Land mountainous. Soil rocky, 4th rate. Timber pine & fir. 30.00 chs. Mountainous land 80.02 chs. Oct. 22 - 1903

N. 0° 0' W. bet secs 8 and 9. Over mountainous land, descending generally over slide rock.

15.00	Descend abruptly.
40.00	Set a quartzite stone 18×10×6 ins 12 ins in the ground for 1/4 sec. cor. marked 1/4 on W face and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.
44.00	Bottom of deep ravine drains Easterly. Ascend abruptly.

Subdivision of T. 3 N., R. 3 W.

80.00	Set a quartzite stone 18x10x8 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 edge and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable. Land mountainous. Soil rocky, 4th rate. No timber. Mountainous land 80.00 chs.
	Oct. 23 1903. At 9h 00m a.m. l.m.t. I set off 40°41' N on the lat arc 11°07' S on the decl arc and determine a meridian with the solar at the cor of secs 4, 5, 8 and 9. Thence I run East on a random line bet secs 4 and 9.
40.00	At temp 1/4 sec cor.
80.18	Intersect N and S line 16 lks S of cor of secs 3, 4, 9 and 10 Thence I run S89°53' W on a true line bet secs 4 and 9. Over mountainous land through heavy timber, descending.
16.50	Head of gulch drains S.E. Ascend.
40.09	Set a quartzite stone 20x9x5 ins 15 ins in the ground for 1/4 sec cor marked 1/4 on N face from which. A pine 14 ins diam bears S17°30'E 17 lks dist marked 1/4 S 9 BT. A pine 20 ins diam bears N 27° W 28 lks dist marked 1/4 S 4 BT.
62.00	Leave timber bears N and S, enter slide rock.

Subdivision of T. 3 N., R. 3 W.

80.18	The cor of secs 4, 5, 8 and 9. Land mountainous. Soil rocky, 4th rate. Timber pine, aspen and fir 62.00 chs. Mountainous land 80.18 chs.
	N 0° 03' W on a random line bet secs 4 and 5.
40.00	Set temp 1/4 sec cor.
80.06	Intersect N Bdy of Tp 15 lks S 89° 50' W of cor of secs 4, 5, 32 and 33 heretofore described. Thence I run S 0° 03' W on a true line bet secs 4 and 5 Over mountainous land through heavy timber, descending.
8.00	West fork of Uintah river 15 lks wide drains easterly, ascend.
18.00	Leave timber, enter slide rock bears E and W, ascend abruptly.
34.00	Bluff 100 ft high bears E & W. Ascend.
36.00	Top of bluff and ridge bears E and W, Descend.
40.06	Set a quartzite stone 18 x 9 x 6 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.
80.06	The cor of secs 4, 5, 8 and 9 Land mountainous, Soil rocky, 4th rate. Timber pine and aspen 18.00 chs. Mountainous land 80.06 chs. Oct. 23 1903 :- At 12h 00m m. l. m. t. sky over cast and observation for lat impossible.

Subdivision of T. 3 N., R. 3 W.

Chains.	
	Oct. 23 1903, at 2h 00m p.m. l.m.t. I set off 40°37' N on the lat arc 11°12' S on the decl arc and determine a meridian with the solar at the cor of secs 5, 6, 31 and 32 on S Bdy of Tp. heretofore described. Thence I run N 0°04' W bet secs 31 and 32 Over mountainous land through burnt timber, ascending.
16.00	Spur projects easterly. Descend.
24.00	Spring branch 5 lks wide in hollow drains S.E. ascend
35.00	Point of spur projects easterly. Descend.
40.00	Set a quartzite stone 14×14×6 ins 10 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
48.00	Ravine drains S.E. Ascend.
60.00	Leave burnt timber enter green timber bears E & W.
75.00	Top of S side of flat ridge bears N.W. and S.E.
80.00	Set a quartzite stone 18×10×4 ins 12 ins in the ground for cor of secs 29, 30, 31 and 32 marked with 1 notch on S and 5 notches on E edge from which, A pine 8 ins diam bears N 66°30' E 50 lks dist marked T. 3 N R 3 W S 29 BT. A pine 6 ins diam bears S 33°30' E 43 lks dist: marked T 3 N R 3 W S 32 BT. A pine 12 ins diam bears S 22° W 38 lks dist marked T 3 N R 3 W S 31 BT. A pine 7 ins diam bears N 54° W 92 lks dist marked T 3 N R 3 W S 30 BT. Land mountainous. Soil rocky, 3rd and 4th rate.

Subdivision of T. 3 N., R. 3 W.

Chains.	
	Timber burnt pine 60.00 chs.
	Green pine 20.00 chs.
	Mountainous land 80.00 chs.
	S89°58'E on a random line bet secs 29 and 32.
40.00	Set temp 1/4 sec cor.
80.06	Intersect N and S line 5 lks S of cor of secs 28, 29, 32 and 33;
	Thence I run
	West on a true line bet secs 29 and 32
	Over mountainous land through heavy timber and dense under-growth, descending.
12.00	Bottom of deep ravine drains S.E. ascend.
40.03	Set a quartzite stone 20x12x5 ins 15 ins in the ground for 1/4 sec cor marked 1/4 on N face from which.
	A pine 9 ins diam bears N19°30'W 133 lks dist marked 1/4 S 29 B.T.
	A pine 15 ins diam bears S13°30'E 85 lks dist marked 1/4 S 32 B.T.
53.00	Top of steep ascent bears N.W. and S.E.
	Thence over flat top of ridge.
80.06	The cor of secs 29, 30, 31 and 32
	Land mountainous.
	Soil stony, 3rd rate.
	Timber pine, aspen spruce and fir.
	Mountainous land heavily timbered 80.06 chs.
	N89°58'W on a random line bet secs 30 and 31.
40.00	Set temp 1/4 sec cor.

Subdivision of T. 3 N., R. 3 W.

78.70	Intersect W bdy of T. 11 Mts S of cor of secs 25, 30, 31 and 36 heretofore described.
	Thence I run
	S 89° 53' E on a true line bet secs 30 and 31.
	Cors mountainous land through heavy timber, ascending abruptly.
19.00	Top of abrupt ascent bears N.W. and S.E. Leave heavy timber, enter scattering timber bears N.W. and S.E.
30.00	Leave scattering timber enter fine bears N.W. and S.E.
38.70	Set a quartzite stone 16 x 10 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 1½ ft high W of cor. Pits impracticable.
45.00	Descend.
49.00	Head of ravine drains S.E.
	Ascend.
59.00	Leave fine enter timber bears N. & S.
60.00	Top of ascent bears N.W. and S.E.
78.70	The cor of secs 29, 30, 31 and 32 Land mountainous.
	Soil rocky, 4th rate.
	Timber fine and aspen 59.70 chs.
	Mountainous lands 78.70 chs.
	Oct. 23 - 1903.

	N 0° 04' W bet secs 29 and 30
	Cors mountainous lands through heavy timber,
9.00	Ascend.
22.00	Ravine drains easterly, ascend.
30.00	Top of spur projects easterly. Descend.
40.00	Set a quartzite stone 14 x 8 x 8 ins 10 ins in the ground for 1/4 sec cor marked 1/4 on W face from which a pine 8 ins diam bears S 65° W 21 lks

Subdivision of T. 3 N. R. 3 W.

Chains. dist marked 1/4 S 30 BT.
A pine 14 ins diam bears S 72° E
37 lks dist marked 1/4 S 29 BT.
From cor two small lakes bear
westerly about 35.00 chs dist.
51.00 Ravine drains S.E. ascends
abruptly.
80.00 Set a quartzite stone 16×10×8 ins
11 ins in the ground for cor of secs
19, 20, 29 and 30. marked with 2
notches on S and 5 notches on E
edge from which,
A pine 14 ins diam bears N 41°30' E
25 lks dist marked T 3 N R 3 W
S 20 BT.
A pine 12 ins diam bears S 66° E
33 lks dist marked T 3 N R 3 W S 29 BT.
A pine 20 ins diam bears S 54° W
59 lks dist marked T 3 N R 3 W S 30 BT.
A pine 10 ins diam bears N 80° W 17 lks
dist marked T 3 N R 3 W S 19 BT.
Land mountainous.
Soil stony 3rd rate.
Timber pine, aspen and spruce
Mountainous land heavily
timbered 80.00 chs.

Oct. 24, 1903: At 9h 00m a.m. l.m.t. I
set off 40°39' N on the lat arc. 11°29' S
on the decl. arc and determine
a meridian with the solar at
the cor of secs 19, 20, 29 and 30.
Thence I run
East on a random line bt secs
20 and 29
40.00 Set temp 1/4 sec cor.
80.28 Intersect N and S line 16 lks N of
cor of secs 20, 21, 28 and 29
Thence I run

Subdivision of T. 3 N., R. 3 W.

Chains	
	N. 89° 53' W. on a true line bet secs 20 and 29.
	Over mountainous lands through heavy timber, descending.
40.14	Point for 1/4 sec cor, on ball in rock in place, 16 x 12 x 10 ins above ground on which, cut a cross (X) at the corner point for 1/4 sec cor marked 1/4 N. of cross from which A pine 12 ins diam bears N 39° E 19 lks dist marked 1/4 S 20 B T. A pine 20 ins diam bears S 27° 30' W 23 lks dist marked 1/4 S 29 B T.
40.20	Head of ravine drains S.E. Small lake in bottom of ravine
15.00	chs South easterly.
	Ascend steep rocky S.E. slope.
80.28	The cor of secs 19, 20, 29 and 30.
	Land mountainous.
	Soil rocky, 4th rate.
	Timber pine, aspen spruce and fir.
	Mountainous land heavily timbered 80.28 chs.

N. 89° 53' W. on a random line bet secs 19 and 30

40.00	Set temp 1/4 sec cor.
78.62	Intersect W bdy of T 16 lks N of cor of secs 19, 24, 25 and 30 heretofore described.
	Thence I run
	East on a true line bet secs 19 and 30
	Over mountainous land through scattering timber, descending.
15.00	Leave scattering timber, enter heavy timber Brass N and S.
28.00	Ravine drains Southeasterly.
	Ascend.

Subdivision of T. 3 N., R. 3 W.

Chains.	
30.00	Leave timber bears N and S. Enter open
38.62	Set a quartzite stone 24×14×4 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 1½ ft high N of cor. Pits impracticable.
53.50	Top of ridge bears N.W. and S.E. Leave open, enter timber. Descend.
78.62	The cor of secs 19, 20, 29 and 30 Land mountainous. Soil rocky, 4th rate. Timber pine, spruce and fir 55.12 chs. Mountainous land 78.62 chs. Oct. 24: 1903. At this cor I set off 11° 33' S on the decl arc and at 12h 00m m.l.m.t. observe the sun on the meridian; the resulting lat is 40° 39' N.
	N 0° 04' W bet secs 19 and 20 Over mountainous land through heavy timber, ascending.
22.00	Spur projects southeasterly. Leave timber, enter slide rock. Ascend along S.E. slope.
40.00	Point for 1/4 sec cor falls on rock in place 6×3×2 ft above ground on which, Cut a cross (X) at the corner point for 1/4 sec cor, marked 1/4 W of cross and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable.
72.00	Top of main ridge bears E & W. Descend.
80.00	Set a quartzite stone 18×12×8 ins

Subdivision of T. 3 N., R. 3 W.

Chains.	
	12 ins in the ground for cor of secs 17, 18, 19 and 20 marked with 3 notches on S and 5 notches on E edge and raise a mound of stone 2 ft base 1½ ft high W. of cor.
	Pits impracticable.
	Land mountainous.
	Soil rocky, 4th rate.
	Timber pine, fir and spruce, 22.00 chs.
	Mountainous land 80.00 chs.
	S 89°53' E on a random line bet secs 17 and 20
40.00	Set temp 1/4 sec cor.
80.09	Intersect N and S line 5 lks S of cor of secs 16, 17, 20 and 21.
	Thence I run
	N 89°55' W on a true line bet secs 17 and 20
	Over mountainous land through heavy timber. ascending along ridges spur.
31.00	Leave timber enter open bears N.W. and S.E. Ascend along N.E. slope of main ridge.
40.04	Set a quartzite stone 13x12x4 ins 9 ins in the ground for 1/4 sec cor marked 1/4 on N face from which a pine 9 ins diam bears N 4°30' W 103 lks dist marked 1/4 S 17 BT.
	A pine 5 ins diam bears N 19°30' E 84 lks dist marked 1/4 S 17 BT.
	No trees South of line therefore I raise a mound of stone 2 ft base 1½ ft high N of cor.
	Pits impracticable.
59.00	Top of abrupt ascent, ascend gradually.
80.09	The cor of secs 17, 18, 19 and 20.

Subdivision of T. 3 N., R. 3 W.

Chains.	
	Land mountainous Soil stony, 3rd and 4th rate. Timber pine and fir 31.00 chs Mountainous land 80.09 chs.
	West on a random line bet secs 18 and 19.
40.00	Set temp 1/4 sec cor.
78.50	Intersect W bdy of Tp 6 lks S of cor of secs 13, 18, 19 and 24 heretofore described. Thence I run S 89° 57' E on a true line bet secs 18 and 19. Over mountainous land ascending in gulch draining westerly.
15.00	Head of gulch draining westerly. Ascend rocky W slope.
38.50	Set a quartzite stone 17 x 7 x 5 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.
65.00	Top of ridge bears N.W. and S.E. Descend.
78.50	The cor of secs 17, 18, 19 and 20. Land mountainous. Soil stony 3rd and 4th rate. No timber. Mountainous land 78.50 chs. Oct. 24, 1903.
	Oct. 25 1903 at 8h 00m a.m. l.m.t. I set off 40° 39' N on the lat arc 11° 47' S

Chains.	
	on the decl. and determine a meridian with the solar at the cor of secs 17, 18, 19 and 20
	Thence I run
	N 0° 04' W bet secs 17 and 18
	over mountainous land descending
31.00	Head of ravine drains easterly. Ascend.
40.00	Set a quartzite stone 16 x 12 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.
65.00	Top of rocky ridge bears E and W. Descend.
80.00	Set a quartzite stone 18 x 10 x 6 ins 12 ins in the ground for cor of secs 7, 8, 17 and 18 marked with 4 notches on S and 3 notches on E edge and raise a mound of stone 2 ft base 1½ ft high W of cor.
	Pits impracticable.
	Land mountainous.
	Soil stony, 4th rate.
	No timber.
	Mountainous land 80.00 chs.

	S 89° 55' E on a random line bet secs 8 and 17.
40.00	Set temp 1/4 sec cor.
80.05	Intersect N and S line of W & S of cor of secs 8, 9, 16 and 17
	Thence I run
	N 89° 57' W on a true line bet secs 8 and 17.
	Over mountainous land along north side of rocky ridge bearing E & W.

Subdivision of T. 3 N., R. 3 W.

Chains.	
40.02	Set a quartzite stone 20x16x4 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 1½ ft high N of cor. Pits impracticable.
80.05	The cor of secs 7, 8, 17 and 18 Land mountainous. Soil rocky, 4th rate. Timber, mountainous land 80.05 chs. Oct. 25 1903: At 12 h 00 m m. t. sky ons cast and observation for lat impossible.

N 89° 57' W on a random line bet secs 7 and 18.

4.00	Set temp 1/4 sec cor.
78.30	Intersect W. Bdy of Tp 20 lks N of cor of secs 7, 12, 13 and 18 heretofore described.

Thence I run N 89° 54' E on a true line bet secs 7 and 18 thro mountainous land along N slope of rocky ridge bearing E and W.

30.00	Spur of ridge projecting northerly, continue along N slope.
38.30	Set a quartzite stone 18x12x4 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.
78.30	The cor of secs 7, 8, 17 and 18 Land mountainous. Soil rocky, 4th rate.

Subdivision of T. 3 N., R. 3 W.

Drains	No timber. Mountainous land 78.30 chs.
	N 0° 04' W bet secs 7 and 8. Over mountainous land, descending.
12.00	Descend abruptly over slide rocks bears E & W.
37.00	Bottom of deep raving drain easterly. Ascend steep rocky S slope.
40.00	Set a quartzite stone 17 x 10 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 impracticably.
80.00	Set a quartzite stone 20 x 10 x 5 ins 15 ins in the ground for cor of secs 5, 6, 7 and 8 marked with 5 notches on S and E edge and raise a mound of stone 2 ft base 1½ ft high W of cor. Pits impracticable. Land mountainous. Soil rocky. 4th rate. No timber. Mountainous land 80.00 chs.
	S 89° 57' E on a random line bet secs 5 and 8
40.00	Set temp 1/4 sec cor.
80.22	Intersect N and S line 25 lks S of cor of secs 4, 5, 8 and 9. Thence I run S 89° 52' W on a true line bet secs 5 and 8 Along steep south slope over

Subdivision of T. 3 N., R. 3 W.

chains.	
	slide rock, ascending.
40.11	set a quartzite stone 17×10×4 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N face and raise a mound of stone 2 ft base 1½ ft high N of cor.
	Pits impracticable.
80.22	The cor of secs 5, 6, 7 and 8
	Land mountainous.
	Soil rocky, 4th rate.
	No timber.
	Mountainous land 80.22 chs.
	Oct. 25 1903.

Oct. 26 1903. At 8h 00m a.m. l.m.t. I set off 40°41' N on the lat arc 12°09' E on the decl. arc and determine a meridian with the solar at the cor of secs 5, 6, 7 and 8.

Thence I run

S89°54' W on a random line bet secs 6 and 7.

40.50	Set temp 1/4 sec. cor.
78.00	Intersect W. bdy of Tp. 5 lks S of cor of secs 1, 6, 7 and 12 heretofore described.

Thence I run

N89°56' E on a true line bet secs 6 and 7.

Over mountainous land along S slope of rocky ridge descending.

20.00	Head of draw drains S.E.
	Thence along S slope.
38.00	Set a quartzite stone 18×10×6 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on N face and raise a mound of stone

Subdivision of T. 3 N., R. 3 W.

Chains.	
	2 ft base 1½ ft high N of cor. Pits impracticable.
78.00	The cor of secs 5, 6, 7 and 8. Land mountainous. Soil stony 4th rate. No timber. Mountainous land 78.00 chs. Oct 26, 1903; at this cor I set off 12°13' S on the decl. are and at 12h 00m m. l. mt. observe the sun on the meridian; The resulting lat is 40°41' N.

N 0°04' W on a random line bet secs 5 and 6.

40.00 Set limy ¼ sec cor.

79.92 Intersect N bdy of Tp. 20 lks N 89°50' E of cor of secs 5, 6, 31 and 32 heretofore described. Thence I run S 0°13' E on a true line bet secs 5 and 6. Gen mountainous land through heavy timber, descending.

15.00 West fork of Uintah river crosses easterly. Width 15 lks - ascend.

20.00 Level timber bears E & W. Ascend abruptly over slide rock.

39.92 Set a quartzite stone 24x10x4 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.

62.00 Top of bluff and ridge bears E and W. Descends rocky south slope.

79.92 The cor of secs 5, 6, 7 and 8 land mountainous.

Subdivision of T. 3 N., R. 3 W.

Soil rocky, 3rd and 4th rate.
Timber fine 20.00 chs.
Mountainous land 7.92 chs.
Oct. 26. 1903.

General Description.

This township is very rough and broken a large portion being covered with slide rock and large boulders.
A little grass can be found in the southern and eastern part of T., but the country is too broken for stock grazing.
There is an abundance of pine, fir and aspen timber but most of it is unavailable for milling purposes owing to the rugged nature of the country.
The ridges in the north western portion of T. reach an elevation above timber line.
There is an abundance of water; the Uintah river flowing through the north eastern portion of T. and the head waters of what is known as dry gulch draining the southern portion.
There are no settlers or indications of mineral in this T.

Herman E. Freudenthal
U.S. Deputy Surveyor

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BOOK A-305

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Herman E Freudenthal, 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 the Sub-division line of Tp. No 3 N. R. No 3 W. Uintah Special Base & Meridian, Utah showing the respective capacities in which they acted:

John Potter ..... Chainman.
C. R. Morse ..... Chainman.
Harry Hunter ..... Moundman.
..... Moundman.
J. L. Pace ..... Axman.
..... Axman.
J. M. Sturdivan ..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E Freudenthal, United States Deputy Surveyor, in surveying a those parts or portions of the Sub-division line of Tp. No 3 N. R. No 3 W of the Uintah Special Base & meridian, Utah of Utah, which are represente 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 th corner monuments established, according to the instructions furnished by the United States Survey General for Utah.

John Potter ..... Chainman.
C. R. Morse ..... Chainman.
Harry Hunter ..... Moundman
..... Moundman.
J. L. Pace ..... Axman.
..... Axman.
J. M. Sturdivan ..... Flagman.

Subscribed and sworn to before me this 26th day of October 1908, 189

SEAL

Herman E Freudenthal
U. S. Deputy Surv.

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BOOK A-305

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman C. Freudenthal, 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 20th 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 the Sub-division lines of Tp No 3 N. R No 3 W

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

Herman C. Freudenthal
United States Deputy Surveyor.

Subscribed by said Herman C. Freudenthal and sworn to before me this 28th day of December, 1903

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 1, 1904, 189

The foregoing field notes of the survey of the Sub-division lines of Township 3 North Range 3 West of the Uintah Special Base & Meridian, Utah

executed by Herman C. Freudenthal under his contract No. 46, dated July 25th 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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Filed Aug 3/04

Exd W.A.

O.W.G.

4—679.

E

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

South East and West

Bdys.

of

T 4 N R 2 W

Of the Winter Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E Freudenthal, United States Deputy Sur

Under his Contract No. 268, dated July 20 1903,

Survey commenced October 28th 1903,

Survey completed November 9th 1903,

6—151

S high	6.00 20	Chg
E "	6 00 00	2 45
W "	6.00.15	1
		3.48

BOOK A 305

NAMES AND DUTIES OF ASSISTANTS.

John Potter Chairman

Alec Pace "

Harry Hunter Marindoman

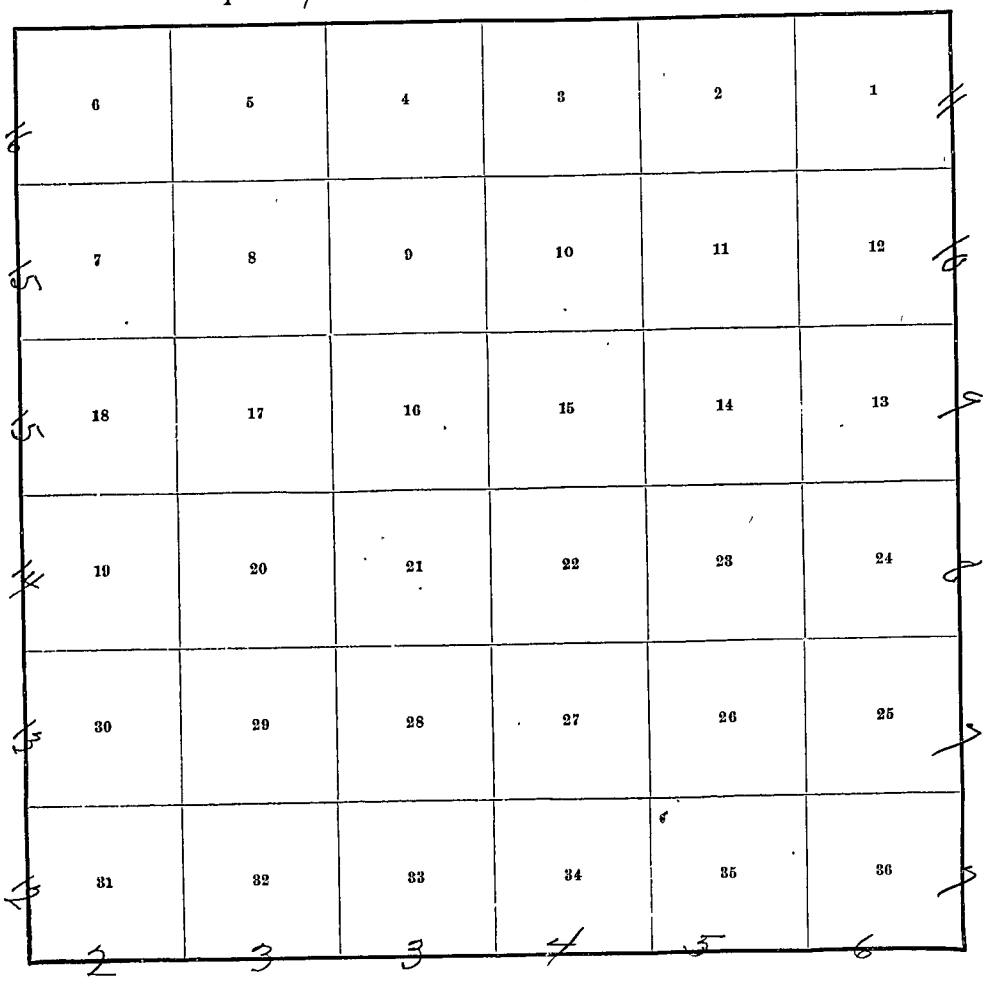
J. L. Pace Axeman

J M Sturdivan Flagman

BOOK A-305

INDEX DIAGRAM.

Township No. 4 North, *Range* No. 2 West.



Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, John Potter and Alex Pace 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 East and West Bdys of T 4 N R 2 W and West Bdy T 5 N R 2 W of the Wasatch Special Base and Meridian Utah.

John Potter, Chainman.

Alex Pace, Chainman.

Subscribed and sworn to before me this 27th day of October 1903, ~~189~~

SEAL

Oberman E Freudenthal
U S Deputy Surveyor

WE, I Harry Hunter and ~~a~~ do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of South East and West Bdys of T 4 N R 2 W and West Bdy T 5 N R 2 W of the Wasatch Special Base and Meridian Utah

A Harry Hunter, Moundman.

....., Moundman.

Subscribed and sworn to before me this 27th day of October 1903, ~~189~~

SEAL

Oberman E Freudenthal
U S Deputy Surveyor

WE, I J L. Pace and ~~a~~ do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ~~us~~ are, to the best of ~~our~~ my skill and ability, in the survey of South, East and West Bdy T 4 N R 2 W and West Bdy T 5 N R 2 W: of the Wasatch Special Base and Meridian Utah.

J. L. Pace, Axman.

....., Axman.

Subscribed and sworn to before me this 27th day of October 1903, ~~189~~

SEAL

Oberman E Freudenthal
U S Deputy Surveyor

I, J M. Sleeper, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the South East and West Bdy T 4 N R 2 W and West Bdy T 5 N R 2 W of the Wasatch Special Base and Meridian Utah.

J. M. Sleeper, Flagman.

Subscribed and sworn to before me this 27th day of October 1903, ~~189~~

SEAL

Oberman E Freudenthal
U S Deputy Surveyor

6—151

South and East Bdy. of T. 4 N. R. 2 W.

Chains

Note -

The South and East Bdy. of this township were to be surveyed by Deputy Dallas under his contract No. 267

As Deputy Dallas was unable to commence his contract before I was ready to commence mine and as it was necessary for me to have these boundaries established before I begin my contract, through a mutual agreement between Deputy Dallas and myself I establish the said boundaries under my contract No. 268.

Survey commenced Oct 28th 1903 for description of instrument see Notes of West Bdy T. 2 N. R. 3 W. in Book "A"

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 an observation on Polaris I proceed as follows;

at the township cr. Tps. 3 and 4 N. Rs. 1 and 2 West which is a quartzite stone 10 x 12 x 10 ins. above ground. firmly set and marked and witnessed as described by Deputy James H. Martineau under his contract No 265.

at 3h 00m p. m. l. m. t, I set off 40° 42' N. on the lat. arc; 12° 56' 5" on the decl. arc, and determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5 chs N. of the Cr.

South Bdy of T. 4 N R 2 W,

Chains

at 4h 53m AM Oct 29 by my watch which is 2m 00s slow of L. m. t. I observe Polaris at western elongation in accordance with the Manual of Instructions and mark a point in the line thus determined on a stake driven in the ground 5 chs. N. of my station

Oct 29th 1903

Oct 29 at 7h a. m. L. m. t. I lay off the azimuth of Polaris 1° 34' to the east and mark the meridian thus determined by cutting a small groove in the stone set Oct 28th on which the meridian falls 0,4 ins. east of the mark determined by the solar,

at 8h 6m L. m. t. I set off 40° 42' N. on the lat. arc. 13° 9' 5" 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. E. 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' 21" west and 0' 16" East of the meridian established by the Polaris observations therefor I conclude that the adjustments of the instrument are satisfactory

The magnetic bearing of the true meridian at 8h 30m a. m. is N 16° 30' W. the angle thus determined gives the mag. decl. 16° 30' E.

From the Tp. cor. already described I run West on a random line setting temp 1/4 and sec. cors. at intervals of 40,00 chs and 80,00 chs

South Bdy. of T. 4 N R 2 W.

Chains	
	respectively and at
480.20	Intersect the E. Bdy. T. 4 N R 3 W, 52 lks. N. of the cor. of tps. 3 and 4 N. Rs 2 and 3 W, as established by me Sep 26 - 03 and described in Notes of E Bdy of T 3 N R 3 W in Book "C," Oct 30th 03 at 8h 00m a. m. l. m. t. I set off 40° 47' N. on the lat. arc, 13° 29' south decl. arc, and determine a meridian with the solar at the cor. of tps. 3 and 4 N. Rs 2 and 3 W. as previously described Thence I run
	N. 89° 56' E. on true line bet secs. 6 and 31
	Ascend over rough mountainous land through scattering pine timber, along S. W. slope of ridge over loose slide rock
15.00	Leave scattering pine timber brass N. W. and P. E,
40.20	Point for 1/4 sec. cor. falls on a rock in place 5 x 4 x 3 ft. above ground, at the exact cor. point I cut a cross (X) for 1/4 sec. cor, marked 1/4 N. of the cross (X) and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
80.20.	Set a quartzite stone 12 x 10 x 8 ins. 8 ins. in the ground for cor. of secs. 5, 6, 31 and 32 marked with 4 notch on N. and 2 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. Pits impracticable
	Land, mountainous
	Soil, stony
	Timber, scattering pine on 15.00 chs.
	Mountainous land on 80.20 chs,
	N. 89° 56' E. on true line bet. secs. 5 and 32
	Ascend along rocky S. W. slope of ridge over rough broken mountainous land
29.80	Top of ridge brass N. and P. 400 ft. above sec. cor.
	descend along S. E. slope of same over slide rock
40.00	Set a quartzite stone 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
40.30	Head of draw course S. E,

South Bdy. of T. 4 N R 2 W

Chains	
80.00	Set a quartzite stone 18 x 11 x 8 ins, 12 ins. in the ground for cor. of secs. 4, 5, 32 and 33 marked with 2 notches on W. and 4 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable Land, mountainous Soil stony 4th rate No timber Mountainous land on 80.00 chs.
	N. 89° 56' E. on true line bet. secs. 4 and 33 Descend along rocky S. E. slope of ridge over rough broken mountainous land
12.20	Draw course S. W. 200 ft. below cor. ascend rocky S. W. slope of ridge
40.00	Set a quartzite stone 18 x 12 x 4 ins. 12 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor, Pits impracticable This cor. is about 400 ft. above draw
50.00	Top of ridge bears N. and S. 200 ft. above ¼ sec. cor, descend rocky, broken S. E. slope of same
75.00	Enter scattering pine timber bears NE and S. W,
80.00	Set a granite stone 18 x 11 x 4 ins 12 ins. in the ground for cor. of secs. 3, 4, 33 and 34 marked with 3 notches on E. and W. edges; from which a pine 28 ins. diam. brs. N. 71° E. 79 lks. dist. marked T. 4 N, R 2 W, S. 34 B. T, a pine 14 ins. diam. brs. S. 2° 30' E. 90 lks. dist, marked T. 3 N R 2 W, S. 3 B. T, a pine 13 ins. diam. brs. S. 83° W. 102 lks. dist. marked T. 3 N R 2 W, S. 4 B. T, a pine 4 ins. diam. brs, N. 88° W. 265 lks. dist, marked T. 4 N, R 2 W. S. 33 B. T. Land, mountainous Soil, stony 4th rate Timber, scattering pine on 5.00 chs. Mountainous land on 80.00 chs. Oct. 30th at 12h 00m l. m. t. sky was overcast and observation impossible

South Bdy. of T. 4 N R 2 W.

Chain	
	N. 89° 56' E. on true line brt. secs. 3 and 34
	Descend over rough mountainous land along rocky S.E. slope of ridge through scattering pine timber,
4.00	Draw course S.E. 100 ft. below cor. leave scattering pine timber bears NE and S.W. ascend S.W. slope of rocky ridge
32.00	Top of rocky ridge bears NW. and S.E. 800 ft. above draw descend steep rocky S.E. slope of ridge
40.00	Set a sandstone 24 x 12 x 8 ins. 18 ins. in the ground for 1/4 sec. cor. marked 1/4 on the N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of Cor. Pits impracticable
68.00	Enter dense pine timber bears N.W. and S.E.
75.00	Draw course S.E.
80.00	Set a quartzite stone 22 x 8 x 5 ins. 16 ins. in the ground for cor. of secs. 2, 3, 34 and 35 marked with 4 notches on W. and 2 notches on E. edges from which,
	A pine 14 ins. diam. brs. N. 77° E. 38 lks. dist. marked T. 4 N. R 2 W. S. 35 B. T.
	A pine 23 ins. diam. brs. S. 35° E. 34 lks dist. marked T. 3 N. R 2 W. S. 2 B. T.
	A pine 15 ins. diam. brs. S. 26° W. 50 lks. dist marked T. 3 N. R 2 W. S. 3 B. T.
	A pine 6 ins. diam. brs. N. 31° 30' W. 9 lks. dist. marked T. 4 N. R 2 W. S. 34 B. T.
	Land, mountainous
	Soil, stony 3rd and 4th rates
	Timber, dense pines on 12.00 chs. scattering pine on 4.00 chs.
	Mountainous or heavily timbered land on 80.00 chs.
	This cor. is 800 ft. lower than top of ridge.
	Oct 30th 1903
	Oct 31st at 8h 00m a.m. l.m.t. I set off 40° 42' N. on the lat. arc. 13° 49' S on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 Thence I run N. 89° 56' E. on true line brt. secs. 2 and 35
	Descend over rough mountainous land along rocky S.E. slope of ridge through dense pine timber,
13.00	Bottom of ravine course S.E. 200 ft. below sec cor.
23.00	Lake 20 acres in extent bears S. 3.00 chs.
40.00	Falls on a rock in place 3 x 6 x 2 ft. above ground, at

South Bdy. of T. 4 N R 2 W.

Chains	
	the exact cor. point I cut a cross(X) for 1/4 sec. cor
	marked 1/4 N. of the cross(X) from which
	a pine 16 ins. diam bears N 83° E 271. lks. dist. marked 1/4 S. 35 B.T,
	a pine 8 ins diam. brs S 53° E 98 lk. dist marked 1/4 S. 2 B.T,
77,00	Leave dense pine timber enter small meadow bears N, and S.
78,10	Creek 7 lks. wide 10 ins. deep course S.E. enter scattering
	pine timber bears N and S.
80.00	In edge of meadow, Set a granite stone 18 x 16 x 5 ins.
	12 ins. in the ground for cor. of secs. 1, 2, 35 and 36
	marked with 5 notches on N. and 1 notch on E. edge; from which
	A pine 14 ins. diam. brs. N. 69° 30' E. 257 lks. dist
	marked T. 4 N. R 2 W. S. 36 B.T,
	A pine 16 ins. diam. brs. S. 88° 30' E. 224 lks. dist,
	marked T. 3 N. R 2 W, S. 1 B. T,
	A pin 6 ins. diam brs. S. 49° 30' W. 349 lks. dist,
	marked T. 3 N, R 2 W. S. 2 B. T,
	A pin 16 ins diam. brs. N. 8° W, 315 lks. dist,
	marked T, 4 N, R 2 W, S. 35 B. T,
	Land, mountainous
	Soil, stony 3rd rate
	Timber, Dense pines on 77,00 chs. scattering pines on 1,90 chs.
	Mountainous or heavily timbered land on 80.00 chs
	N. 89° 56' E. on true line bet. secs. 1 and 36
	Ascend over rough mountainous land along rocky
	S. W. slope of ridge through scattering pine timber
41,00	Falls on a rock in place 6 x 6 x 4 ft. above ground, at
	the exact cor. point I cut a cross(X) for 1/4 sec. cor.
	marked 1/4 N. of the cross(X) from which:
	A pine 15 ins. diam. brs. N 85° 30' E. 154 lks. dist. marked 1/4 S. 36 B.T,
	a pine 12 ins. diam brs. S. 85° E. 151 lk. dist. marked 1/4 S 1 B.T,
	This cor. is 500 ft above sec. cor,
73.00	Leave scattering pine timber bears N. W. and S. E.
	Continue ascent over loose slide rock
80.00	The cor. of Tps. 3 and 4 N. Rs. 1 and 2 W. as previously
	described
	Land, mountainous
	Soil, stony 3rd and 4th rates
	Timber, scattering pines on 73.00 chs.
	Mountainous land on 80.00 chs.
	Oct. 31st 1903.

East Bdy of T 4 N R 2 W.

Cl.

Nov 2nd 1903 at 8h 00m a.m., l.m.t. I set off 40° 42' N. on the lat. arc, 14° 27' on the decl. arc and determine a meridian with the solar at the cor. of Tps. 3 and 4 N Rs 1 and 2 W. heretofore described in notes of E. Bdy of this township in this book

Thence I run

North bet. secs. 31 and 36

Ascend rocky S.W. slope of ridge

30,00 Top of ridge bears N.W. and S.E. descend along N.E. slope of same

40,00 Set a quartzite stone 8 x 10 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

45,00 Enter dense pine timber bears N.W. and S.E.

80,00 Set a quartzite stone 16 x 12 x 5 ins. 11 ins. in the ground for cor. of secs. 25, 30, 31 and 36 marked with 1 notch on S. and 5 notches on N edges from which

A pine 18 ins. diam. brs. N 34° E. 52 lks. dist. marked T. 4 N. R 1 W. S. 30 B.T.,

A pine 20 ins. diam. brs. S. 67° E. 80 lks. dist. marked T. 4 N. R 1 W. S. 31 B.T.,

A pine 16 ins. diam. brs. S. 34° W. 21 lks. dist. marked T. 4 N. R 2 W. S. 36 B.T.,

A pine 17 ins. diam. brs. N. 56° 30' W. 35 lks. dist. marked T. 4 N. R 2 W. S. 25 B.T.,

Land, mountainous

Soil, rocky and stony 4th rate

Timber, dense pine on 35,00 chs.

Mountainous land on 80,00 chs.

North bet. secs. 25 and 30

Descend over rocky N.E. slope of ridge through dense pine timber

East Bdy of T. 4 N R 2 W.

Chain

37,20 Pack trail bears E. and W.
40,00 Set a quartzite stone 17 x 14 x 5 ins. 11 ins in the ground for 1/4 sec. cor. marked 1/4 on W face; from which
a pine 10 ins. diam. brs. S. 39° W. 69 lks. dist marked 1/4 S. 25 B. T.
a pine 15 ins. diam. brs. S. 85° E. 7 lks. dist. marked 1/4 S. 30 B. T.
78,90 Draw course S. E. ascend
80,00 Set a quartzite stone 20 x 18 x 7 ins. 15 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked with 2 notches on S. and 4 notches on N edges from which
a pine 8 ins. diam. brs. N. 59° 30' E. 25 lks. dist marked T 4 N. R 1 W S. 19 B. T.
a pine 8 ins. diam. brs. S. 43° E. 28 lks. dist. marked T. 4 N. R 1 W. S. 30 B. T.
a pine 12 ins. diam. brs S. 75° W. 26 lks. dist. marked T. 4 N. R 2 W. S. 25 B. T.
a pine 10 ins. diam. brs. N. 52° W. 12 lks. dist. marked T 4 N. R 2 W. S. 24 B. T.
Land, mountainous
Soil, rocky and stony 3rd rate
Timber, dense pines on 80,00 chs.
Mountainous land on 80,00 chs.
Nov 2 at this cor. I set off 14° 31' S. on the decl. arc, and at 12h 00m l. m. t. observe the sun on the meridian, the resulting lat is 40° 44' N. or within 1' of the proper lat.

North bet. secs. 19 and 24
Ascend gradually over rough broken country through dense pine timber
20,50 West Fork of White Rocks Creek 40 lks. wide 1 ft. deep course E.
25,25 Spring branch 3 lks. wide 6 ins. deep course E. ascend

East Bdy. of T. 4 N., R 2 W.

Chs.	
4,00	Set a quartzite stone 18 x 10 x 6 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which a pine 10 ins. diam. brs. N. 87° 30' E. 7 lks. dist. marked 1/4 S, 19 B. T., a pine 12 ins. diam. brs. N. 30° 30' W. 24 lks. dist. marked 1/4 S. 24 B. T.,
76,00	Leave dense timber bear E and W. enter scattering timber
80,00	Falls on a rock in place 4 x 5 x 3 ft. above ground. at the exact cor. point I cut a cross (X) for cor. of secs. 13, 18, 19 and 24 marked with 3 notches N and S. of the cross (X) from which a pine 36 ins. diam. brs. S. 2° E, 215 lks. dist. marked T 4 N. R 1 W S, 19 B. T., a pine 14 ins. diam. brs. S. 2° W, 170 lks. dist. marked T. 4 N, R 2 W, S. 24 B. T., No other bearing trees available therefor I raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. Pits impracticable Land, mountainous Soil, rocky and stony 3rd and 4th rate Timber, dense pines on 76,00 chs. scattering pine on 4,00 chs., Mountainous or heavily timbered land on 80,00 chs.

Nov 22nd at 3h 00m P.m. l. m. t. I set off 40° 45' on the lat arc 14° 33½' on the dial arc and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24
Thence I run
North bet. secs. 13 and 18
Ascend over slide rock through scattering pines

East Bdy. of T. 4 N. R. 3 W.

Chains	
40.00	Leave scattering pine timber bears E and W. Set a sandstone 16 x 10 x 4 ins. 11 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face from which a pine 18 ins. diam. brs. S. 10° E. 215 lks. dist. marked 1/4 S. 18 B. T., a pine 6 ins. diam. brs. S. 29° W. 67 lks. dist. marked 1/4 S. 13 B. T.,
77.00	Top of high rocky ridge bears. NW & SE. descend
80.00	Set a sandstone 18 x 12 x 6 ins. 12 ins. in the ground for cor. of secs. 7, 12, 13 and 18 marked with 2 notches on N. and 4 notches on S. edges and raise a mound of stone 2 ft. base 1½ ft. high. N. of cor. Puts impracticable Land, mountainous Soil, rocky and stony 3rd and 4th rate Timber, scattering pine on 40.00 chs. Mountainous land on 80 poch Nov 2nd 1903

Nov 3rd At 8h 00m a. m. l. m. t. I set off 40° 48' N. on the lat. arc. 14° 46' on the decl. arc and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18 Thence I run North bet. secs. 7 and 12

	Descend steep N. slope over loose slide rock
23.00	Enter dense pine timber bears N.W. and S.E.
41.00	Set a quartzite stone 16 x 12 x 5 ins. 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which, a pine 15 ins. diam. brs. N. 53° 30' W. 150 lks. dist. marked 1/4 S. 12 B. T., a pine 8 ins. diam. brs. N. 58° E. 133 lks. dist. marked 1/4 S. 7 B. T.,
41.50	Creek 15 lks. wide 8 ins. deep course S. E., ascend steep N. W. slope of ridge

East Bdy of T 4 N R 2 W

Chains	
74.00	Trees dense pine timber bears NW and SE
80.00	Set a sandstone 16 x 12 x 8 ins 11 ins in the ground for Cor of Secs 1, 6, 7 and 12 Marked with 4 notches on N and S notches on the S edges and raise a mound of stone 2 ft base 1½ ft high W of cor pits impractical. Land mountainous Soil rocky and stony 3rd and 4th rate Timber dense pines on 49 chs Mountainous land on 80 chs
	North Bdy Secs 1 and 6
	Ascend over rocky broken country.
2.00	Top of ridge bears E and W descend rocky N slope of same
6.00	Enter timber bears NW and SE
32.00	Draw drains E. ascend
40.00	Top of spur projects E descend Set a granite stone 16 x 8 x 6 ins 11 ins in the ground for 1/4 Sec cor. Marked 1/4 on W face from which a pine 10 ins diam bears N 75° E 66 lks dist marked 1/4 S 6 B.T. a pine 6 ins diam bears N 63° W 95 lks dist Marked 1/4 S 1 B.T.
41.00	Bottom of roving drains & Continue descent along NE slope of ridge
64.50	Large timber bears E and W in meadow
67.00	Creek 20 lks wide 2 ft deep course SE
78.50	Creek 15 lks wide 2 ft deep course SE
80.00	Set a sandstone 18 x 12 x 5 ins 17 ins in the ground for Closing Cor. T. 4 N. Rs 1 and 2 W marked C.C. 4 N 6 grooves on S. R1W on E 6 grooves on E. 6 grooves on W and R2W on W faces. Raise a mound of stone 2 ft base 1½ ft high S of cor pits impracticable. From C.C. I run West 2.48 chs according to Special Instructions

East Bdy of T 4N R 2W

and Set a Sand Stone 16 X 10 X 10 ins. 11 ins in the ground for Standard Cor. T 5N Rs. 1 and 2 W. Marked S.C. 6 grooves on N 6 grooves on E and W faces from which
a pine 14 ins diam bears N 29½ E 226 lks dist marked . . T 5N R 1 W S 31 B.T.
a pine 8 ins diam bears N 10° W 279 lks dist Marked . . T 5N R 2 W S 36 B.T.
Land mountainous
Soil rocky and stony 3rd and 4th rate
Timber dense pines. on 58.00 chs.
Mountainous land on 8 00 chs.
Nov 3d 1903

Nov 7th at 2h 00m p m. l m t. I set off 40° 42' N on the lat arc. 16° 55' on the decl arc and determine a meridian at the Cor of Tps 3 and 4N Rs. 2 and 3W. as described in Book "C"
Thence I run.
North on West Bdy bt secs 31 and 36
as cend over steep S slope of ridge over loose slide rock through scattering scrub pines
10.00 Leave scattering scrub pines. E and W
30.00 Top of high rocky ridge bears E and W
descend steep N slope of some 600 ft. above cor
40.00 Set a sand stone 20 X 18 X 8 ins 15 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 impracticably
60.00 Bottom of steep descent bears E and W
descend gradually
68.00 Enter dense pine timber bears E and W
72.00 Creek 10 lks. wide 6 ins deep course W. 1000 ft below top of ridge, ascend
80.00 Set a sand stone 18 X 10 X 10 ins 12 ins in the ground for cor of secs 25-30-31 and 36. Marked with 5 notches on N and 1 notch on S edges
from which
a pine 10 ins diam bears N 16° E 40 lks.

West Bdy of T. 4 N. R. 2 W.

dist. marked T. 4 N. R 2 W. S. 30 B. T.
a pine 8 ins diam. brs. S. 29° E. 36 lks.
dist. marked T. 4 N. R 2 W. S. 31 B. T.
a pine 15 ins. diam. brs. S. 62° 30' W. 52 lks.
dist. marked T. 4 N. R 3 W. S. 36 B. T.
a pine 14 ins. diam. brs. N. 53° W. 25 lks.
dist. marked T. 4 N R 3 W. S. 25 B. T.
Land, mountainous
Soil, rocky and stony 3rd and 4th rates
Timber, Dense pine timber on 12,00 chs.
scattering pines on 10,00 chs.
Mountainous land on 80,00 chs

North bet. secs. 25 and 30
ascend steep S. slope of ridge
through dense pine timber
10,00 Leave timber brs E and W.
40,00 Set a sandstone 20 x 10 x 6 ins. 15 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
This cor. is 800 ft. above the sec. cor. south.
73,00 High Rocky ridge brs E. and W. 600 ft. above 1/4 sec. cor. descend over steep rocky N slope of same
80,00 Set a sandstone 24 x 10 x 6 ins. 18 ins. in the ground for cor. of secs. 19, 24, 25 and 30 marked with 4 notches on N. and 2 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
Timber, dense pines on 10.00 chs.
Mountainous land on 80.00 chs.

Nov 7th 1903.

West Bdy. of T, 4 N R 2 W.

Chains	
	Nov 9th at 10h 90m a.m. l.m.t. I set off 40°44' on the lat arc. 16°39'5 on the decl arc. and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30
	Thence I run
	North bet secs. 19 and 24
	Descend steep N slope of ridge over loose slide rock
28,00	Creek 3 lks. wide 6 ins. deep course West enter scattering pine timber
40,00	Set a quartzite stone 18 x 8 x 6 ins, 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft. base 1½ ft high W. of cor. Pits impracticable. No suitable bearing trees within limit
60,00	T/ of ridge bears E. and W descend steep N slope of cañon
80,00	Set a sandstone 18 x 10 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
	No suitable bearing trees within limits
	Land, mountainous
	Soil, stony at the rate
	Timber, scattering pine on 57,00 chs.
	Mountainous land on 80,00 chs.
	Nov 9th at this cor. I set off 16°38'5 on the decl arc and at 12h 00m l.m.t. observe the sun on the meridian the resulting lat is 40°45' N. or within 1' of the proper lat.

North bet. secs. 13 and 18

West Bdy of T. 4 N R 2 W.

On ...

	Descend steep N. slope of ridge over loose slide rock through scattering pines
26.50	Creek 15 lks. wide. 6 ins. deep course West, ascend
31.00	Leave scattering pine timber brs E and W.
40.00	Set a sandstone 17 x 9 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
65.00	High Ridge brs E. and W. 1000 ft. above creek, descend over steep N. slope of same
80.00	Falls on a rock in place 4 x 4 x 2 ft. above ground, at the exact cor. point I cut a cross (X) for cor. of secs. 7, 12, 13 and 18 marked with 2 notches N. and 4 notches S. of the cross (X) and raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. Pits impracticable
	Land, mountainous
	Soil, rocky and stony 3rd and 4th Rates
	Timber, scattering pines on 31.00 chs.
	Mountainous land on 80.00 chs.
	North bet. secs. 7 and 12
	Descend rocky N. slope of ridge
12.00	Enter dense pine timber brs E. and W.
27.00	Creek 15 lks. wide course West. ascend
40.00	Set a granite stone 16 x 14 x 6 ins 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which a pine 10 ins. diam. brs S. 36° E. 12 lks. dist. marked 1/4 S. 7 B. T., a pine 10 ins. diam. brs. N. 12° W. 13 lks.

West Bdy. of T. 4 N R 2 W.

Chains	
	dist. marked 1/4 S. 12 B. T.,
58,00	Top of ridge bears N. E. and S. W. descend
68,00	Creek 10 lks. wide 6 ins. deep drains S. W. ascend
80,00	Set a quartzite stone 20 x 12 x 5 ins., 15 ins. in the ground for cor. of secs. 1, 6, 7 and 12 marked with 1 notch on N. and 5 notches on S. edge from which a pine 8 ins. diam. brs. N. 33° 30' E. 59 lks, dist. marked T. 4 N R 2 W. S. 6 B. T., a pine 12 ins. diam. brs. S. 22° 15' E, 99 lks. dist marked T 4 N. R 2 W. S. 7 B. T., a pine 8 ins. diam. brs. S. 57° W, 58 lks. dist. marked T 4 N. R 2 W. S. 12 B. T., a pine 16 ins. diam. brs. N. 21° 30' W. 51 lks. dist. marked T. 4 N. R 3 W. S. 1 B. T.,
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, dense pines on 6800 chs
	Mountainous land on 8000 chs.
	North bet. secs. 1 and 6
	Ascend S. E. slope of ridge through dense pines
31,00	Ravine drains S. W. continue ascent,
40,00	Ridge bears N. W. and S. E, descend N. W. slope of same
	Set a granite stone 15 x 10 x 8 ins. 10 ins in the ground for 1/4 sec. cor. marked 1/4 on N. face from which a pine 18 ins. diam. brs. N. 28° E. 30 lks. dist. marked 1/4 S. 6 B. T., a pine 8 ins. diam brs, N. 51° W. 49 lks. dist. marked 1/4 S. 1 B. T.,
53,00	Ravine drains S. W. ascend gradually along S. E. slope
80,15	Intersect the First Standard Parallel N. 100 lks. E. of the Standard cor of Tps. 5 N. Rs 2 and 3 W,

Plains

West Bdy of T. 4 N R 2 W.

Set a sandstone 16 X 10 X 5 ins 11 ins. in the ground for Closing cor. of Tp. 4 N. Rs 2 and 3 W, marked C. C on S. with 6 grooves on E and W. faces from which

A pine 14 ins. diam. brs. S. 36° E. 65 lks. dist. marked T 4 N R 2 E S. 6 B. T.

A pine 10 ins. diam. brs. S. 25° 15 W. 36 lks. dist marked T 4 N. R 3 W S. 1 B. T.

Land mountainous

Soil, rocky and stony 4th rate

Timber, dense pines on 80.15 Chs.

Mountainous land on 80.15 Chs.

Nov 9th 1903

Latitudes, departures and closing errors

Line designated	True Bearing	Dist. chs.	Latitudes N.	Latitudes S.	Departures E.	Departures W
First Standard Par. N.	West	481.48				481.48
W. Bdy. T. 4 N. R 2 W.	South	480.15		480.15		
S. Bdy. T. 4 N R. 2 W.	N. 89° 56' E.	480.20	0.56		480.20	
E. Bdy. T. 4 N. R 2 W.	North	480.00	480.00			
Convergency						.61
Totals			480.56 480.15	480.15	480.20	482.09 480.20
Error in lat — — — —			.41	Error in Dep —		1.89

For General Description See Notes of Subdivisions of T. 4 N. R 2 W. in Book "H."

Herman E Freudenthal
U. S. Deputy Surveyor

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BOOK A-305

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

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

.....

showing the respective capacities in which they acted:

....., *Chainm*

....., *Chainm*

....., *Moundm*

For final affidavits see book G Tp 5 N R 2 W ....., *Moundm*

....., *Axman.*

....., *Axman.*

....., *Flagman*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....

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

.....

.....

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

..... meridian, ... of ....., which are represen 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 corner monuments established, according to the instructions furnished by the United States Survey General for .....

....., *Chainman*

....., *Chainman*

....., *Moundma.*

For final affidavits see book G Tp 5 N R 2 W ....., *Moundma.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

.....

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

SEAL

6—151

BOOK A-305

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

_____

_____

_____ of the _____

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

_____

United States Deputy Surveyor.

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

_____

SEAL

_____

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 21, 1904.

The foregoing field notes of the survey of The South East & West Boundaries Township 4 North Range 2 West of the Uintah Special Base & Meridian Utah

executed by Hermann E. Freudenthal under his contract No. 268, dated July 20, 1903, 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M. 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.

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FILED
AUG 8 1904

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

First Std. Parallel North.

Range 2 West.

Of the Utah Special Base and Meridian,

State of Utah.

AS SURVEYED BY

Herman E. Freudenthal, United States Deputy Sur

Under his Contract No. 268, dated July 20th 1903,

Survey commenced November 3rd 1903,

Survey completed November 5th 1903,

6—161

Length 6.00 00 V

BOOK A-305

NAMES AND DUTIES OF ASSISTANTS.

John W Potter Chainman
J M Sturdivan "
J. L. Pace "
O. R. Moser "
Harry Hunter mounds man
Charles Williams "

BOOK A-305

INDEX DIAGRAM.

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

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, John W Potter / J. M. Sturdivan and J. L. Pace / O. R. Morse

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

The 1st Std Parallel North. Through R. 2 W Wintah Special Base and Meridian Wtah

John W Potter — J. L. Pace, *Chainman.*

J. M. Sturdivan — O R Morse, *Chainman.*

Subscribed and sworn to before me this 2nd day of November 1903, ~~189~~

SEAL

Oberman E Freudenthal
U. S Deputy Surveyor

WE, Harry Hunter and Charles Williams

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

The 1st Std Parallel North. Through R 2 W Wintah Special Base and Meridian Wtah.

Harry Hunter, *Moundman.*

Charles Williams, *Moundman.*

Subscribed and sworn to before me this 2nd day of November 1903, ~~189~~

SEAL

Oberman E Freudenthal
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, ..., 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

1st Std Parallel N. through Range 2 W

Survey commenced Nov 3 1903
for description of inst. see book A.
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 an observation on Polaris. I proceed as follows.
At the Std Cor of Tps 5 N Ranges 1 and 2 W. Established Nov 3d 1903 and described in my notes on the E. bdy of T 4 N R 2 W.

At 3h P.M. l.mt. I set off 40° 47' N on Lat arc. 14° 53' S. on dec arc and determine the meridian with solar and mark a point thereof on a stone firmly set in the ground 5 chs N of Cor. November 4th 1903
At 4h 29m U.M. by my watch which is 2m slow of l.mt. I observe Polaris at its Western 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. Nov 4th 1903

Nov 4th At 7h Am l.mt. I lay off the azimuth of Polaris 1° 34' to the E and mark the meridian thus determined by cutting a small groove in the stone set Nov 3d on which the meridian falls 0. 4 ins east of the mark determined by the solar
At 8h 6m l.mt. I set off 40° 47' N on Lat arc 15° 05' S on Dec 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 E of the meridian established by the Polaris

1st Std Parallel N Through R2W

observation.
The Solar apparatus by PM and A.M. observations defines positions for meridians respectively about 0°21" W and 0°16" E of the meridian established by the Polaris observations
Therefore I conclude that the adjustments of the instrument are satisfactory. The mag bearing of the true meridian at 8h 30m am is N16°43' W the angle thus determined gives the mag decl. 16°43 E

From Std Tp cor. allready described I run
West on a true line S. of Sec 36
Over mountainous land through scattering timber. ascend
5.00 Spur bears S.E. descend SW slope 50 ft
15.00 Creek 5 lks wide 6 ins deep course S E
begin ascent E slope
18.00 Leave scattering and enter heavy timber bears N and S
difference between measurements of 40.00 Chs
by 2 sets of Chainmen is 4 lks position of middle point
by 1st set. 40.02 Chs
by 2nd set 39.98 Chs. the mean of which is
40.00 the point for S.C. 1/4 sec cor falls on rock in place
2 x 4 ft by 20 ins above ground. at cor point
Cut a Cross (X) for S C 1/4 sec cor. marked S C 1/4 to
N of Cross. from which
a pine 10 ins diam bears N 72½° E 42 lks dist
marked S.C. 1/4 S 36 B.T.
a pine 16 ins diam bears N 49° W 31 lks dist
marked S C 1/4 S 36 B.T.
60.00 Spur bears S.E. descend SW slope 100 ft
69.00 Spring branch 4 lks wide 6 ins deep course SE
ascend steep N.E. slope
71.00 Leave timber bears NW and S.E. Continue
Steep ascent N.E. slope over slide rock
difference between measurements of 80.00 Chs
by 2 sets of Chainmen is 10 lks position
of middle point.

1st Std. Parallel N. through R 2 W

	by 1st set 80.05 chs by 2nd set 79.95 chs the mean of which is
80.00	Set a sand stone 20 x 10 x 8½ ins firmly in a mound of stone for Standard Cor sec 35 and 36 marked with 1 groove on S and 5 grooves on W and S.C. on N faces, raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable Land mountainous soil along 3rd and 4 rale timber pine and fir. mountainous or heavily timbered land 80.00 chs
	West on S Bdy sec 35.
	Cor mountainous land ascending steep NE
	slopes over slide rock.
21.00	top of high ridge bears NW and SE 800 ft above cor. line along ridge descending SW ft,
	difference between measurement of 4000 chs by 2 sets of chainmen is 18 lks. position of middle,
	by 1st set is 39.91 chs by 2nd set is 40.09 chs the mean of which is
40.00	Set a sand stone 18 x 10 x 8 ins 12 ins in the ground for Standard ¼ sec cor. marked S.C. ¼ on N face raise a mound of stone 2 ft base 1½ ft high N
	of cor. pits impracticable
66.00	Enter scattering timber bears N and E
68.80	Creek 10 lks wide course SW 500 ft below
	top of ridge ascend rocky & steep
72.00	Cross scattering timber enter open here N and S
	difference between measurement of 80.00 chs by 2 sets of chainmen is 20 lks. position of
	middle point by 1st set is 7990 chs
	by 2nd set is 80.10 chs. the mean of which is
80.00	Set a sand stone 24 x 16 x 5 ins 18 ins in the ground for Standard Cor sec 34 and 35 marked with 2 grooves on E 4 grooves on W and S.C. on N face. raise a mound of stone 2 ft base 1½ ft high N of cor pits impracticable Land mountainous.

1st Std N. through R 2 W

soil stony 4th rate
timber scattering pines
mountainous land 80.00 Chs.
Nov 4th At this cor at 11h 55m l mt. I set off
15° 10' S on dec ox. and observe the sun
as it passes meridian resulting lat being
40° 47' N. which is correct lat.

West on S Bdy Sec. 34
Over mountainous land ascending rocky E slope
6.00 ridge bears N and S. leave open enter
timber bears N and S. descend steep W slope
27.10 Creek 5 lks wide 6 ins deep, 400 ft below ridge drains South
leave timber enter open bears N and S
begin ascent steep rocky E slope
difference between measurement of 40.00 Chs
by 2 sets chainmen is 12 lks.
position of middle point by 1st set is 40.06 Chs
by 2nd set is 39.94 Chs. the mean of which is
40.00 point for standard 1/4 sec cor falls on flat
rock 12 x 10 x 4 ft above ground. at cor point
cut a cross (X) for standard 1/4 sec cor. marked
S C 1/4 to N of cross. raise a mound of
stone 2 ft base 1 1/2 ft high N of cor
pits impracticable. 1/4 cor. 400 ft above creek.
67.00 top of high Mountain bears N and S. 600 ft above 1/4 cor.
gradual descent W slope of mountain
difference between measurement of 80.00 Chs
by 2 set of chainmen is 16 lks position of middle pt.
by 1st set 80.08 Chs
by 2nd set. 79.92 Chs the mean of which is
80.00 Set a quartzite stone 16 x 10 x 10 ins 12 ins in
the ground for standard cor secs 33 and 34
marked with 3 grooves on the E and W and S C
on the N faces. raise a mound of stone
2 ft base 1 1/2 ft high N of cor. pits impracticable
the cor is 300 ft below top of ridge.
land mountainous timber pine
soil stony 3rd and 4 rate.
mountainous or heavily timbered land 80.00 Chs

1 St Std N. through R 2 W

West on S Bdy Sec 33.
Over mountainous land descending rocky W slope.

5,00 abrupt descent rocky SW slope over slide rock.

29,00 foot of abrupt descent 600 ft below cor. Continue descent SW slope.

32,00 leave open enter scattering pine timber bears NW and SE.

38,00 trail bears NW and SE.
difference in measurement of 40,00 chs by 2 sets Chainmen is 6 lks. position of middle point
by 1st set is 39.97 Chs
by 2nd set is 40.03 the mean of which is

40,00 point for Standard 1/4 sec cor falls on a rock in place 16 X 24 X 15 ins above ground. at cor point cut a cross (X) for Standard 1/4 sec cor. marked 1/4 S.C. to N of cross. from which a pine 30 ins diam bears N 16° E 26 lks dist marked S.C. 1/4 S 33 B.T.
a pine 20 ins diam bears N 45° W 106 lks dist marked S.C. 1/4 S 33 B.T.

56,00 West fork of White Rocks creek 10 lks wide 1 ft deep course S.SE ascend SE slope

70,00 Spur bears S.E. along SW slope

75,00 leave timber enter open bears NE and SW head of draw course SE
difference in measurement of 80.00 chs by 2 sets Chainmen is 20 lks.
position of middle point
by 1st set is 79.90 Chs
by 2nd set is 80.10 chs the mean of which is

80,00 set a Sand Stone 26 X 12 X 8 ins firmly in a mound of stone for Standard cor secs 32 and 33. marked with 4 grooves on E and 2 grooves on W and S.C. on N faces raise a mound of stone 2 ft. base 1½ ft high N of cor. pits impracticable
land mountainous
soil stony 3rd and 4 rate timber scattering pine mountainous land 80.00 chs. Nov 4th 1903

1st. Std N through R 2 W

November 5th 1903
At 8h a m l mt. I set off
40°47' N on Lat arc. 15°24' S on dec arc
and determine meridian at the Std
Cor Secs 32 and 33. Thence I run
West on S Bdy Sec 32. Over
mountainous land. ascending rocky
S.E. slope
37.00 top of high ridge hors N.E. and SW 800 ft. above cor
descend NW slope
difference in measurement of 40.00 Chs
by 2 sets Chainmen is 20 lks
position of middle point by 1st set is
40.10 Chs
by 2nd set is 39.90 Chs the mean of which is
40.00 Set a granite Stone 18 X 10 X 6 ins 12 ins in
the ground for Standard 1/4 sec cor
marked S.C. 1/4 on the N face. raise a
mound of stone 2 ft base 1 1/2 ft high
N of cor pits impracticable
54.00 enter timber hors N and S leave open
68.00 leave timber enter open hors N and S.
69.00 Creek 5 lks wide 1 ft deep course NW
difference in measurement of 80.00 Chs
by 2 sets Chainmen is 4 lks. position of
middle point
by 1st set is 80.02
by 2nd set is 79.98 the mean of which is
80.00 point for cor. falls on a rock in place
5 X 5 ft X 18 ins above ground. at cor point
Cut a cross (X) for the standard cor secs
31 and 32 marked With 5 grooves on the E
1 groove on W and S.C. to N of cross
raise a mound of stone 2 ft base
1 1/2 ft high N of cor. pits impracticable
mountainous land
Soil stony 3rd and 4 rate.
timber pine and fir.
Mountainous & heavily timbered land 80.00 Chs

1st Std N through range 2 W

West on S Bdy Sec 3.1
Over mountainous land ascending rocky
N.E. slope
19.00 Row of ridge line along ridge ascending
difference in measurement of 40.00 chs
by 2 set of chainmen is 10 lks position of
middle point
by 1st set is 40.05 chs
by 2nd set is 39.95 chs the mean of which is
40.00 point for Standard 1/4 sec cor falls on a rock in
place 48 X 18 X 6 ins above ground. at cor
point cut a cross (X) for standard 1/4 sec
cor marked 1/4 S.C. to N of cross
raise a mound of stone 2 ft base 1 1/2 ft
high N of cor. pits impracticable
42.00 top high ridge bears NW and SE. 800 ft
above sec cor descend steep rocky SW
slope.
65.00 leave open outer timber bears NW and SE
difference between measurement of 80.00 chs
by 2 set of chainmen is 30 lks. position
of middle point.
by 1st set is 80.15 chs
by 2nd set is 79.85 chs the mean of which is
80.00 set a granite stone 16 X 12 X 8 ins 12 ins in
the ground for Standard cor Tps. 5 N
Ranges 2 and 3 W. marked with 6 grooves
on the E and W. 6 grooves S.C. on N faces
from which
a pine 14 ins diam bears N 59° E 34 lks dist
marked T 5 N R 2 W S 31 B.T.
a pine 12 ins diam bears N 42 1/2° W 12 lks dist
Marked T 5 N R 3 W S 36 B.T.
land mountainous.
soil Stony 3rd and 4 rate
timber pine and fir
mountainous or heavily timbered land
80.00 Chs.

Nov 5th 1903

For general description see Township 4 N R 2 W

Herman Freudenthal
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 Herman E. Freudenthal, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of The 1st Std Parallel North Through R. 2 W. of the Uintah Special Base and Meridian Utah showing the respective capacities in which they acted:

John W. Potter — J. M. Sheridan, Chainman.
J. S. Pace — O. P. Morse, Chainman.
Harry Hunter, Moundman.
Chas. Williams, Moundman.
....., Axman.
....., Axman.
....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E. Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the The 1st Std Parallel North Through R 2 W ..... of the Uintah Special Base and meridian, Utah, of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John W. Potter — J. S. Pace, Chainman.
J. M. Sheridan — O. P. Morse, Chainman.
Harry Hunter, Moundman.
Charles Williams, Moundman.
....., Axman.
....., Axman.
....., Flagman.

Subscribed and sworn to before me this 5th day of November 1903 189—

SEAL

Herman E. Freudenthal
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E Freudenthal, 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 20th 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 the First Standard Parallel North through Ranges 2 West

of the Uintah

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.

Herman E Freudenthal
United States Deputy Surveyor

Subscribed by said Herman E Freudenthal, and sworn to before me this 30 day of August 1904

Edward H Anderson
U.S. Surveyor General for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 24, 1904.

The foregoing field notes of the survey of the First Standard Parallel North, Range 2 West of the Uintah Special Base & Meridian, Utah

executed by Herman E Freudenthal under his contract No. 168, 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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4—679.

AUG 3 1904

BOOK A-305

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FIELD NOTES

OF THE SURVEY OF THE

West Bounday T. 5 N. 2 W

Of the Uintah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268, dated July 20th, 1903

Survey commenced Nov 11th, 1903

Survey completed Nov 11th, 1903

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high 2-22.17

Clay 25.10

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

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

SEAL

_____

_____

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

_____, *Moundman.*

_____, *Moundman.*

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

SEAL

_____

_____

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

_____, *Axman.*

_____, *Axman.*

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

SEAL

_____

_____

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

_____, *Flagman.*

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

SEAL

_____

_____

West Bdy of T 5 N R 2 W

At the Std cor of Tps. 5 N Rs. 2 and 3 W here to fore described. I set off 40° 47' N lat. and 17° 9' E on declination and determine the meridian with Solar at 8 h. a.m. L.M.T. on Nov. 11th 1903. Thence I run

North Between 31 and 36

Over mountainous land through timber

34.00 Descend along NW. slope

40.00 Set a quartzite-Stone 14 x 14 x 5 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which

a pine 12 ins diam bears S 36° E 14 lks dist marked 1/4 S 31 B.T.

a pine 14 ins diam bears S 89° W 39 lks dist marked 1/4 S 36 B.T.

47.00 Cross timber ridge open here NE. and SW

61.00 Creek head waters of Uintah River. 25 lks wide 1 ft. deep course SW. 350 ft below Std cor.

79.80 Creek 10 lks wide 6 ins deep course SW

80.00 On North bank Creek. Set a quartzite-Stone 17 x 9 x 5 ins. 12 ins in the ground for the cor of secs 25-30-31 and 36. marked with 1 groove on the S and 5 grooves on the N faces raise a mound of stone 2 ft base 1½ ft high W of cor. pits- impracticable

Land mountainous

Soil stony 3rd rate-

timber pine and fir

Mountainous or heavily timbered land 8000 Chs

North Between 25 and 30

Over mountainous land open

6.00 South bank of Lake bears E and W

16.00 North bank of Lake bears E & W crossed lake on ice

20.00 Begin ascent South slope

25.00 Enter timber bears NE and SW

40.00 Set a granite stone 16 x 10 x 8 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face. from which

A pine 12 ins diam bears N 69° E 30 lks dist

PRELIMINARY OATHS OF ASSISTANTS.

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

_____, *Chainman.*

_____, *Chainman.*

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

_____

_____

West Bdy of T5N R2W

At the Std cor of Tp. 5 N Rs. 2 and 3 W here to fore described. I set off 40°47' N on lat. arc 17°9' S on decl arc and determine the meridian with solar. at 8½ a.m. l.m.t. on Nov. 11th 1903. Thence I run

North Bet secs 31 and 36

Over mountainous land through timber

34.00 Descend along NW. slope

40.00 Set a quartzite-Stone 14x14x5 ins 10 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which

a pine 12 ins diam bears S 36°E 14 lks dist marked 1/4 S 31 B.T.

a pine 14 ins diam bears S 89°W 39 lks dist marked 1/4 S 36 B.T.

47.00 Leave timber enter open bears N.E. and SW

61.00 Creek head waters of Wintah River. 25 lks wide 1 ft deep course SW. 350 ft below Std cor.

79.80 Creek 10 lks wide 6 ins deep course SW

80.00 On North bank Creek. Set a quartzite-Stone 17x9x5 ins. 12 ins in the ground for the cor of secs 25-30-31 and 36. marked with 1 groove on the S and 5 grooves on the N faces raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable

Land mountainous

Soil stony 3rd rate

timber pine and fir

Mountainous or heavily timbered land 8000 chs

North Bet secs 25 and 30

Over mountainous land open

6.00 South bank of lake bears E and W

16.00 North bank of lake bears E & W. crossed lake on ice

20.00 begin ascent South slope

25.00 Enter timber bears N.E. and SW

40.00 Set a granite stone 16x10x8 ins 12 ins in the ground for 1/4 sec cor marked 1/4 on W face. from which

a pine 12 ins diam bears N 69°E 30 lks dist

W Bdy T 5 N R 2 W

	marked 1/4 S 30 B.T.
	@ pine 16 ins diam bears N 19° W 5 Chs dist
	marked 1/4 S 25 B.T.
44.00	Top of ridge bears E and W 350 ft. alone lake
	descend N slope
55.00	Enter timber. Enter open land E and W
70.00	Head of draw course. SW 200 ft below ridge
80.00	The point for cor falls on a rock in place
	2 x 2 ft x 6 ins above ground at cor point
	Cut a cross (X) for the cor of secs 19-24
	25 and 30. marked with 2 grooves to
	the S and 4 grooves on the N of cross (X)
	raise a mound of stone 2 ft. base 1½
	ft high W of cor. pits unperceptible
	land mountainous
	soil stony 3rd rate
	timber pine and fir.
	Mountainous & heavily timbered land 80.00 Chs.

Nov. 11th

At 12 m. the Clouds obscure the sun making it impossible to observe Lat.

North Bet secs. 19 and 24

Ascending S slope rocky S.E. Slope over slide rock and low cliffs.

21.00	Top of slope ascent 400 ft. above cor
	thence over rocky S. Slope gradual ascent
22.17	Intersect N Bdy of the Winlock Indian
	Reservation on top of dividing ridge
	Set a Sand Stone 18 x 10 x 6 ins 12 ins in the
	ground for Closing Cor secs 19 and 24
	marked. C C U I R. 5 N 2 grooves on S. R 2 W
	in S E U F R on N. R 3 W on S W. pits
	raise a mound of stone 2 ft. base 1½ ft.
	high S of cor. pits imperceptible

From Closing Cor. the 14 mile cor on the Bdy. as established by Deputies A H and F M. Brown bears N 86° 15 E 25.10 chs

Land mountainous. Soil stony 4th rate

No timber

Mountainous Land 22.17 Chs

W Bdy T 5 N R 2 W

For General Description see Subdivision Note of this Sp.

Boundaries of T. 5 N R 2 W
Latitudes departures and closing errors.

Lines Designated	Bearing	Distance	Latitudes		Departures	
			N	S	E	W
		chs.	chs.	chs.	chs.	chs.
1st Standard Parallel N.	West	480.00				480.00
West. Bdy	North.	182.17	182.17			
N. Bdy Reservation through R 2 W	N 86° 15' E	145.10	9.50		144.78	
" "	S 63° 45' E	100.00		44.23	89.69	
" "	S 89° 15' E	20.00		0.26	20.00	
" "	N 67° 45' E	70.00	26.51		64.79	
" "	S 88° 15' E	130.00		3.96	129.95	
" "	N 51° 45' E	40.24	24.90		31.59	
East. Bdy	South	195.20		195.20		
Convergency					0.21	
Totals			243.08	243.65	481.01	480.00
				243.08	480.00	
Error in Lat				.57		
Error in dep.					1.01	

Herman E Freudenthal
U S Deputy Surveyor

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PAGE

BOOK A-305

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hermon E. Freudenthal, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the West East and South Bdys of T 4 N R 2 W and the West Bdy T 5 N R 2 W Wintah Special Base and meridian Wtah showing the respective capacities in which they acted:

John Potter, Chainman.
Alec Pace, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. E. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hermon E. Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the West Bdy of T 5 N R 2 W and S, E, and W Bdys of T 4 N R 2 W of the Wintah Special Base and meridian, State of Wtah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

John Potter, Chainman.
Alec Pace, Chainman.
Harry Hunter, Moundman.
, Moundman.
J. E. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 13th day of November 1903, 189

SEAL

Oberman E. Freudenthal
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E Freudenthal, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward M Anderson, United States Surveyor General for Utah, bearing date of the 20th 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 East & West Boundaries Township 4 North Range 2 West and West Boundary Township 5 North Range 2 West of the Uintah Spec. 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.

Herman E Freudenthal
United States Deputy Surveyor.

Subscribed by said Herman E Freudenthal and sworn to before me this 29 day of August 1904

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

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, October 21, 1904.

The foregoing field notes of the survey of the West Boundary of Township 5 North Range 2 West of the Uintah Spec. Base & Meridian, Utah

executed by Herman E. Freudenthal under his contract No. 268, dated July 20 1903, has been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M 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.

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BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

Of

Tp. No 4 N Range No 2 W

Of the Uintah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Herman E Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268 dated July 20th 1903, 189

Survey commenced June 1st 1904, 189

Survey completed June 20th 1904, 189

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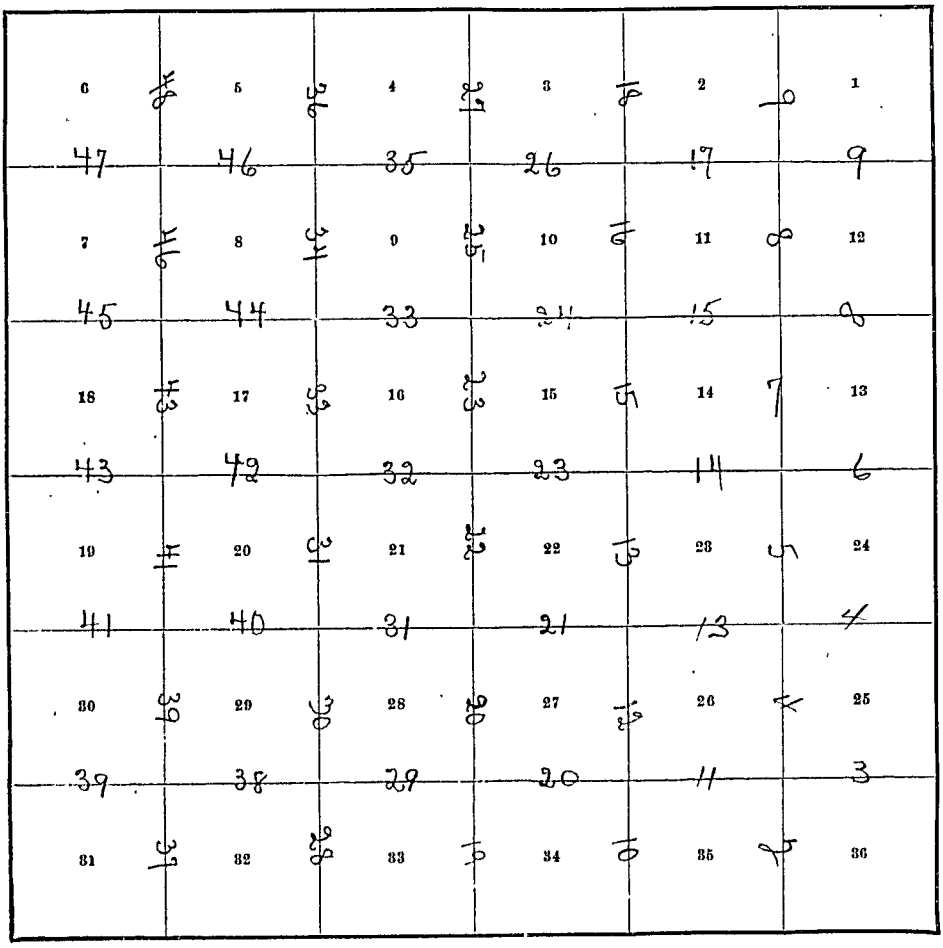
Length 60.04 48

Avg. Meander Length 2 45.70 11.07

BOOK A-305

INDEX DIAGRAM.

Township No. 4 North, *Range* No. 2 West



Meanders Pages 49-50 and 51

PRELIMINARY OATHS OF ASSISTANTS.

WE, John Potter and Alec Pace 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 of T 4N R 2W of the Wiulah Special Base and Meridian Utah.

John Potter, Chainman.

Alec Pace, Chainman.

Subscribed and sworn to before me this 31st day of May 1904, ~~189~~

SEAL

Herman E Freudenthal
U S Deputy Surveyor

WE, I Henry Hunter and ____ do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of Subdivision of T 4N R 2W of the Wiulah Special Base and Meridian Utah.

Henry Hunter, Moundman.

____, Moundman.

Subscribed and sworn to before me this 31st day of May 1904, ~~189~~

SEAL

Herman E Freudenthal
U S Deputy Surveyor

WE, J L. Pace and ____ do solemnly swear that I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of Subdivision of T 4N R 2W of the Wiulah Special Base and Meridian Utah.

J. L. Pace, Axman.

____, Axman.

Subscribed and sworn to before me this 31st day of May 1904, ~~189~~

SEAL

Herman E Freudenthal
U S Deputy Surveyor

I, J M. Sturdivan, 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 of T 4N R 2W of the Wiulah Special Base and Meridian Utah.

J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 31st day of May 1904, 189

SEAL

Herman E Freudenthal
U S Deputy Surveyor

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Subdivisions of T. 4 N. R. 2 W

Chains

Survey commenced June 1 1904 and executed with a W and L.E. Gurley light mountain transit with solar attachment for a description of which see 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, 35 and 36 on the S. Bdy of this township heretofore described in Notes of South Bdy of T. 4 N. R 2 W in book E.

Latitude 40° 42' N. long. 110° 05' 27" W.

I set off 40° 42' N on the lat. arc 22° 01' N on the decl. arc; and at 4h 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 the corner.

at 2h 41m AM by my watch which is 0m 00s slow of Gm,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

June 2 1904

June 2nd at 6h a.m., l.m.t, I lay off the azimuth of Polaris, 1° 34' to the west and mark the meridian thus determined, by cutting a small groove in the stone set June 1st on

Subdivisions of T 4 N R 2 W

Claims

which the meridian falls 0.3 ins, east of the mark determined by the solar, at 9h 00m a. m. l. m. t. I set off 40° 42' N. on the lat. arc, 22° 12' 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 0.4 ins east of the meridian established by the Polaris observation,
The solar apparatus, by p. m. and a. m. observations, define positions for meridians 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 bearing of the true meridian at 9h 30m a. m. is N, 16° 30 W. the angle thus determined gives the mag. decl. 16° 30' E

From the cor. of secs. 1, 2, 35 and 36 already described I run
N. 0° 1' W bet secs. 35 and 36
Ascend gradually through dense pine timber over loose slide rock
18,00 Leave pine timber brs. E and W. begin steep ascent of S. slope of ridge
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 raise a mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable
72,00 Top of ridge brs. N. E. and S. W. 1000 ft above sec. cor descend
80,00 Set a sandstone 16 x 8 x 6 ins, 11 ins, in the ground for cor. of secs, 25, 26, 35 and

Subdivisions of T. 4 N., R. 2 W.,

	36 marked with 1 notch on E. and E. edges; and raise a mound of stone 2 ft. base, 1½ ft. high W. of Cr. Pits impracticable Land, mountainous. Soil, rocky and stony & rate Timber, dense pines on 18.00 chs Mountainous land on 80.00 chs,
	N. 89° 56' E. on random line bet. secs. 25 and 36
40.00	Set temp. ¼ sec. cor.
79.90	Intersect the E. Bdy. of the tp. at the cor. of secs. 25, 30, 31 and 36 heretofore described Thence I run S. 89° 56' W. on true line bet. secs 25 and 36 descend along N.E. slope of ridge over loose slide rock through dense pine timber
18.00	Leave dense pine timber bears N. W and S. E, enter scattering pines,
39.95	¼ sec. cor. falls on a rock in place 3 x 4 x 2 ft. above ground. at the exact cor point I cut a cross (X) with ¼ N. of cross for ¼ sec. cor, and raise a mound of stone 2 ft. base 1½ ft. high N. of Cr. Pits impracticable
79.90	The cor. of secs, 25, 26, 35 and 36 Land, mountainous Soil, rocky and stony & rate Timber, Dense pines on 18.00 chs, scattering pines on 61.90 Mountainous land on 79.90 chs June 2nd at this cor. I set off 22° 15' W on the decl, arc, and at 12h 00m L. m, to observe the sun on the meridian the resulting lat is 40° 43' N.

Subdivisions of T. 4 N., R 2 W.

Chains	
	N. 0° 1' W. bet. secs. 25 and 26
	Descend abruptly along steep N. E.
	Slope of ridge through loose slide rock,
40.00	Set a quartzite stone 18 x 12 x 6 ins,
	12 ins. in the ground for 1/4 sec. cor,
	marked 1/4 on W. face and raise a
	mound of stone 2 ft base 1½ ft high W. of Cor. Pits impracticable
46.00	Enter dense pine timber bears N. W and S. E.
80.00	Set a quartzite stone 18 x 14 x 6 ins, 12 ins,
	in the ground for cor. of secs, 23, 24, 25 and
	26 marked with 2 notches on S. and 1 notch
	of E. edges from which
	a pine 18 ins. diam. brs. N. 17° E, 18 lks dist,
	marked T. 4 N. R 2 W S, 24 B, T,
	a pine 12 ins diam. brs S. 14° E, 39 lks. dist
	marked T, 4 N, R 2 W. S. 25 B, T,
	a pine 6 ins diam brs, S. 74° W, 12 lks dist
	marked T 4 N. R 2 W. S, 26 B. T,
	a pine 9 ins diam. brs. N. 40° 30' W, 51 lks.
	dist. marked T 4 N. R 2 W. S. 23 B, T,
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, Dense pine on 34.00 chs
	Mountainous land on 80.00 chs

	N. 89° 56' E. on random line bet. secs. 24 and 25
40.00	Set temp. 1/4 sec cor,
80.00	Intersect E. Bdy. of this township 9 lks
	N. of the cor. of secs, 19, 24, 25 and 30
	Thence S. run
	West on a true line bet secs, 24 and 25
	Descend along N slope of draw through
	dense pine timber
7.00	Draw drains S. E, ascend
40.00	Set a quartzite stone 18 x 10 x 5 ins, 12 ins. in
	the ground for 1/4 sec. cor. marked 1/4 on
	N. face; from which
	A pine 18 ins. diam. brs. N. 20° E, 20 lks, dist, marked

Subdivisions of T. 4. R 2 W.

Chains	
	1/4 S. 24 B. T.
	a pine 12 ins. diam. brs. S. 40° W. 28 lks.
	dist. marked 1/4. S. 25 B. T.
52.85	Horse trail brs N. W. and S. E.
80.00	The cor. of secs. 23, 24, 25 and 26
	Land mountainous
	Soil, rocky 3rd rate
	Timber, dense pines on 80.00 chs
	Mountainous land on 80.00 chs.
	June 22nd at 4h 00m p.m. l.m.t. I set off 40° 44' N. on the lat. arc; 22° 15' N on the decl. arc, and determine a meridian with the solar at the cor. of secs. 23, 24 25 and 26
	Thence I run
	N. 0° 1' W. bet. secs. 23 and 24
	Descend over rough broken country through dense pine timber
20.00	Trail bears N. W and S. E.
40.00	1/4 sec. cor. falls on a rock in place 3 x 2 x 1 ft. above ground,
	at the exact cor. point I cut a cross (X) and mark 1/4 W. of cross for 1/4 sec cor. from which,
	a pine 18 ins. diam brs. S. 22° W. 24 lks.
	dist. marked 1/4 S. 23 B. T.
	a pine 7 ins. diam brs. S. 20° E. 31 lks.
	dist. marked 1/4 S. 24 B. T.
46.00	West Fork of White Rocks Creek 15 lks wide 1 ft. deep drains S. E. ascend
66.00	Top of ridge brs N. W. and S. E. descend
78.00	Draw drains S. E. ascend
80.00	Set a quartzite stone 14 x 9 x 5 ins. 9 ins. in the ground for cor. of secs. 13, 14, 23 and 24 marked with 3 notches on S. and 1 notch on E. edges. from which;
	a pine 9 ins. diam. brs N. 54° E. 30 lks
	dist. marked T 4 N. R 2 W. S. 13 B. T.

Subdivisions of T. 4 N. R 2 W.

Claims

A pine 12 ins. diam. brs. S. 54° E. 25 lks. dist. marked T 4 N, R 2 W P., 24 B. T,
a pine 6 ins. diam brs. S. 23° 30' W. 7 lks. dist marked T. 4 N. R 2 W P. 23 B. T,
a pine 13 ins. diam brs. N. 43° W. 26 lks. dist. marked T 4 N, R 2 W, S. 14 B. T,
Land, mountainous.
Soil, rocky and stony 3rd rate
Timber, dense pines on 80,00 chs.
Mountainous and heavily timbered land on 80,00 chs,

June 2 1904

June 3d 1904

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

40,00 Set temp. 1/4 sec. cor,

80,01 Intersect E. Bdy. of this township 5 lks. N. of the cor. of secs. 13, 18, 19 and 24, heretofore declared June 3d at 8 h 00 m a. m. l. m. t. I set off 40° 45' N. on the lat. arc 22° 18' W on the decl. arc, and determine a meridian with the solar at the cor. of secs. 13, 18, 19 and 24

Thence I run

N. 89° 58' W. on true line bet. secs. 13 and 24

Descend over rough broken country through dense pine timber

40,00 1/4 sec. cor. falls on a rock in place 2 x 2 x 2 ft. above ground at the exact cor. point I cut a cross (X) with 1/4 N of the cross fr 1/4 sec cor. from which

A pine 20 ins. diam brs. N. 2° W. 34 lks. dist, marked 1/4 S. 13 B. T.

a pine 18 ins. diam brs, S. 23° 30' W. 18 lks dist, marked 1/4 S. 24 B. T,

55,50 Bottom of gulch drains S. Spring branch 2 lks wide 6 ins. deep course S. ascend

70,00 Top of ridge brs. N and S. disc,

80,01 The cor. of secs. 13, 14, 23 and 24

Subdivisions of T, 4 N R 2 W,

Land, mountainous
Soil, rocky 3rd rate
Timber, dense pines on 80.01 chs.
Mountainous and heavily timbered
land on 80.01 chs.

N. 0° 1' W. bet. secs. 13 and 14
Ascend gradually along rough broken
W. slope of ridge through dense pine
timber

40,00 1/4 Cor. falls on a rock in place 3 x 2 x 2 ft.
above ground, at the exact cor. point
I cut a cross (X) with 1/4 W. of the
cross (X) for 1/4 Sec. Cor. from which
a pine 18 ins. diam. brs. N 63° E, 40 lks.
dist. marked 1/4 S, 13 B. T,
a pine 30 ins. diam brs N. 43° W, 87 lks.
dist marked 1/4 S, 14 B. T,

60,00 Leave dense pine timber brs N, and S,
begin ascent brs E, and W, along
S. slope of ridge

80,00 Set a sandstone 15 x 10 x 5 ins, 10 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 stony 4th rate
Timber, dense pines on 60,00 chs.
Mountainous or heavily timbered
land on 80,00 chs.
June 3d. At this cor. I set off 22° 20' N
on the decl. arc; and at 12h 00m
l. m. t. observe the sun on the
meridian, the resulting lat is 40° 45'
N. or within 1' of the proper lat.

Subdivisions of T. 4 N. R 2 W.

Chains	
	S. 89°58' E. on random line bet secs. 12 and 13
40.00	Set temp 1/4 sec. cor.
79.92	Intersect the E. Bdy. of the township 14 chs. S. of the cor. of secs. 7, 12, 13 and 18 ~~thence deflected~~ thence I run
	S. 89°56' W. on true line bet. secs. 12 and 13,
	ascend along N.E. slope of ridge
5.00	Top of ridge bears N.W. and S.E. descend S.W. slope of same,
39.96	Set a quartzite stone 16 x 8 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 1 1/2 ft high N. of Cr. Pits impracticable
79.92	The cor. of secs, 11, 12, 13 and 14
	Land, mountainous
	Soil, rocky 4th rate
	No timber
	Mountainous land on 79.92 chs,

June 3d at 3h 00m P.m. L.m.t, I set off 40° 48' N. on the lat. arc, 22° 22' W on the decl. arc, and determine a meridian with the polar at the cor. of secs. 11, 12, 13 and 14

Thence I run

N. 0°1' W. bet. secs. 11 and 12

ascend along rough broken South West slope of ridge

40.00	Set a quartzite 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 1 1/2 ft high W. of Cr. Pits impracticable
75.00	Top of ridge brs N.W. and S.E, descend along S. E slope of same
80.00	Set a sandstone 20 x 10 x 8 ins 15 ins, in the ground for cor. of secs, 1, 2, 11 and 12 marked with 5 notches on S. and 1 notch on E. edges and

Subdivisions of T. 4 N R. 7 W.

Chains	
	raise a mound of stone 2 ft. base 1½ ft high W. of cr. pits impracticable
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
1	Mountainous land on 80.00 chs,
	N. 89° 56' E. on random line bet. secs. 1 and 12
40,00	Set temp. 1/4 sec. cor,
80,10	Intersect 4th E. Bdy. of the township 21 lks. N. of the cor. of secs. 1, 6, 7 and 12 heretofore ~~described~~
	Thence I run
	N. 89° 55' W. on true line bet. secs. 1 and 12
	Descend along S. W. slope of ridge over rough, broken and rocky land
17,00	Enter scattering pine timber, bro. N. W and S. E,
40,05	Set a sandstone 14 x 10 x 6 ins. 9 ins. in the ground for 1/4 sec. cor, marked 1/4 on N. face; from which
	a 8" pine 6 ins. diam bro. N. 53° E. 45 lks. dist marked 1/4 S. 1 B. T.
	a pine 8 ins. diam, bro. S. 70° E. 30 lks. dist; marked 1/4 S. 12 B. T.
58,00	Leave scattering pine timber bro. N. W and S. E,
63,00	Gulch drains S. E. ascend over rocky North East slope of ridge
80,10	The cor. of secs, 1, 2, 11 and 12
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, scattering pines on 46,00 chs.
1	Mountainous land on 80,10 chs,
	N. 0° 1' W. on true line bet, secs, 1 and 12
	Descend over rough broken country along

Subdivision of T. 4 N., R. 2 W.,

Chain

N. E. slope of ridge.

3,00 Bottom of ravine drains E. ascend

7,00 Top of ridge brs. N. and S. W. thence descend gradually along top of ridge

40,00 Set a quartzite stone 16 x 9 x 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

57,00 Begin abrupt descent along N. E. slope of ridge over slide rock.

80,10 Intersect the First Standard Parallel North 2,50 chs. E. of the standard cor. of secs. 35 and 36 of T. 5 N., R. 2 W., hereafter described at my point of intersection I set a sandstone 18 x 8 x 6 ins, 12 ins. in the ground for Closing Corner of secs. 1 and 2 marked C. C. on S. with 1 groove on E. and 5 grooves on W. 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 80,10 chs,

June 3 1904

June 4th at 8 h 30' a. m. b. m. t. I set off 40° 47' N. on the lat. arc 22° 27' W. on the decl. arc and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the N. Bdy of the township heretofore described

Book C

Thence I run

N. 0° 2' W. bet. secs. 34 and 35

Descend over rough broken country thro dense fine timber

25,00 Bottom of draw drains S. E. ascend along steep rocky N. Slope of ridge.

Subdivisions of T. 4 N. R 2 W.

Ch.	
25,50	Leave timber bears N. W and S. E.
40,00	Set a quartzite stone 18 X 12 X 4 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 1 1/2 ft. high W. of Cor. Pits impracticable
80,00	Set a sandstone 20 X 10 X 8 ins. 15 ins. in the ground for cor. of secs. 26, 27, 34 and 35 marked with 1 notch on S. and 2 notches of E. edges; and raise a mound of stone 2 ft. base 1 1/2 ft. high W. of Cor. Pits impracticable This corner is situated on S. W. slope of ridge and is about 1200 ft. above the cor. of secs. 2, 3, 34 and 35 on the South Bdy. of the township Land, mountainous Soil, rocky and stony 4th rate Timber, dense pines on 25,50 Chs. Mountainous land on 80,00 Chs. June 4th at this cor. I set off 22° 27' N on the decl. arc. and at 12h 00m l. m. t. observe the sun on the meridian the resulting lat is 40° 43' N. or within 1' of the proper lat.
	N. 89° 56' E. on random line bet. secs. 26 and 35
40,00	Set temp. 1/4 sec. cor.
80,00	Intersect N and S. line 5 lks. N. of the cor. of secs. 25, 26, 35 and 36 Thence I run S. 89° 58' W. on true line bet. secs. 26 and 35 Ascend along N. E. slope of ridge over loose slide rock.
25,00	Top of ridge brs. N. W. and S. E. descend along rough and broken S. W slope of sand; thro loose slide rock

Subdivisions of T. 4 N R 2 W.

Chains	
4,00	Set a quartzite stone 16 x 12 x 6 ins, 11 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face; and raised a mound of stone 1 ft. base 1½ ft. high N. of Cor. Pits impracticable
7,00	Rocky ravine drains S. E. ascend
80,00	The cor. of secs, 26, 27, 34 and 35
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 80,00 chs,

June 4th at 3 h 00 m p. m. d. m. t. I set off 40° 43' N on the lat. arc 22° 29' N on the decl. arc; and determine a meridian with the solar at the cor. of secs. 26, 27, 34 and 35

Thence I run

N. 0° 2' W. bet secs. 26 and 27

Ascend over rough broken S. W. slope of ridge through loose slide rock

36,60 Rim of White Rocks Canon bears N. W. and S. E. 400 ft. above sec. cor. descend abruptly

Knowing that the 1/4 sec. cor. would fall on steep rocky slope in large snow drift at this point I set a quartzite stone 16 x 10 x 10 ins, 11 ins. in the ground for Witness 1/4 sec. cor. marked W. C. 1/4 on W. face; and raise a mound of stone 2 ft. base 1½ ft. high W. of Cr. Pits impracticable

40,00 Talls on rocky N. slope of ridge in snow bank and could not be set,

80,00 The cor. of secs, 22, 23, 26 and 27 falls on a rock in place 5 x 4 x 3 ft, above ground, at the exact cor. point I mark a cross (X) with 2 notches S and E, of the cross (X) and raise a

Subdivisions of T. 4 N R 2 W.

Ch ins	
	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
	N. 89° 58' E. on random line bet. secs. 23 and 26
40,00	Set temp. ¼ sec. cor.
80,20	Intersect W and S. line 18 lks. S. of the cor. of secs. 23, 24, 25 and 26
	Thence I run
	S. 89° 50' W. on true line bet secs. 23 and 26
	Ascend along N.E. slope of ridge over mountainous land through dense pine timber
30,00	Leave dense pine timber bears N.W. and S.E.
40,10	Set a sandstone 20x10x6 ins. 15 ins. in the ground for ¼ sec cor. marked ¼ on N face and raise a mound of stone 2 ft base 1½ ft. high N. of Cor.
	Pits impracticable
80,20	The Cor. of secs, 22, 23, 26 and 27
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, dense pines on 30,00 chs.
	Mountainous land on 80,20 chs. June 4th 1904
	June 6th at 10h 00m a. m. l. m. t. I set off 10° 44' W. on the lat. and 22° 40½ on the dec. arc, and determine a meridian with the solar at the cor. of secs. 22, 23, 26 and 27 Thence I run
	N. 0° 2' W. bet. secs. 22 and 23
	Descend along rough broken N.E. slope of ridge over loose slide rock,
27,00	Enter dense pine timber bears E and W,
40,00	Set a quartzite stone 18 x 14 x 8 ins 12 ins. in the ground for ¼ sec. cor. marked ¼ on N face from which A pine 16 ins. diam. brs. N. 75° E. 37 lks. dist marked ¼ S 33 B T, A pine 12 ins. diam. brs. N. 53° 15' W. 29 lks. dist, marked ¼ S. 22 B T,
42,00	Small lake 3 chs. wide 5 chs. long on line being frozen over I chain over the same,
45,00	Begin ascent bears E and W,

Subdivisions of T, 4 N., R. 2 W.,

Chains	
60,00	Top of spur proj E, descend
76,50	Small creek 10 lks. wide 1 ft deep course E,
80,00	Set a quartzite stone 8 X 10 X 6 ins, 12 ins. in the ground for cor. of secs. 14, 15, 22 and 23 marked with 3 notches on S. and 2 notches on E. edges from which a pine 21 ins. diam. brs. N. 89° 30' W, 20 lks. dist. marked T. 4 N. R. 2 W. S. 14 B. T, a pine 12 ins. diam. brs. S. 37° 30' E. 24 lks. dist. marked T. 4 N. R 2 W. S. 23 B. T, a pine 24 ins. diam. brs. S. 33° W, 24 lks. dist, marked T. 4 N. R 2 W, S. 22 B. T, a pine 21 ins. diam. brs. N. 28° 30' W. 32 lks, dist marked T. 4 N, R 2 W, S. 15 B, T, Land, mountainous Soil, rocky and stony 3rd and 4th rates Timber, Dense pines on 53,00 chs. Mountainous or heavily timbered land on 80,00 chs. June 16th at noon hour sky was overcast and obs. impossible
	N. 89° 30' E, on random line bet secs. 14 and 23
40,00	Set temp. 1/4 sec. cor.
80,00	Intersect N. and S. line 23 lks. N. of the cor. of secs. 13, 14, 23 and 24 Thence I run West on a true line bet. secs. 14 and 23
[illegible]	Descend through dense pine timber
3,50	Bottom of ravine drains S. E. ascend
20,00	Top of ridge brs N. W. and S. E. descend
38,40	West Fork White Rock Creek 20 lks wide 18 ins deep course S. E. Obs,
38,80	Trail. bears N. and S,
40,00	Set a quartzite 20 X 12 X 6 ins. 15 ins. in the ground for 1/4 sec. cor. marked 1/4 on N. face from which a pine 14 ins. diam. brs. N. 5° W. 14 lks. dist. marked 1/4 S. 14 B. T, a pine 16 ins. diam. brs. S. 35° 30' E. 16 lks. dist. marked 1/4 S. 23 B T,
72,00	Ridge brs. N. W. and S. E. descend
80,00	The cor. of secs 14, 15, 22 and 23, Land, mountainous Soil, rocky and stony 4th rate Timber, dense pine on 80,00 chs. Mountainous and heavily timbered land on 80,00 chs,

Subdivision of T. 4 N R 2 W.

Ch. s

N. 0° 2' W. bet. secs. 14 and 15
Ascend through dense pine timber
3.00 Top of ridge bears N.W. and S.E. descend
23.10 Small creek 5 lks. wide 1 ft. deep course S.E.
37.10 West Fork White Rocks creek, 20 lks. wide 1 ft deep course S.E. asc.
4000 Set a quartzite stone 14 x 7 x 5 ins. 9 ins. in the ground for 1/4 Sec. Cor. marked 1/4 on N. face from which
a pine 6 ins. diam. brs. S. 57° E. 32 lks. dist. marked 1/4 S. 14 B. T.
a pine 14 ins. diam. brs. N. 78° W. 18 lks. dist. marked 1/4 S. 15 B. T.
46.35 Trail brs. N. W. and S. E.
80.00 Set a quartzite stone 16 x 6 x 6 ins. 11 ins. in the ground for cor. of secs. 10, 11, 14 and 15 marked with 4 notches on S. and 2 notches on E. edges from which
a pine 23 ins. diam. brs. N. 34° 30' E. 57 lks. dist. marked T 4 N R 2 W. S. 11 B. T.
a pine 18 ins. diam. brs. S. 30° E. 57 lks. dist. marked T. 4 N. R 2 W. S. 14 B. T.
a pine 24 ins. diam. brs. S. 25° W. 45 lks. dist. marked T. 4 N. R 2 W. S. 15 B. T.
a pine 22 ins. diam. brs. N. 74° W. 93 lks. dist. marked T 4 N. R 2 W. S. 10 B. T.
Land, mountainous
Soil, loam and rocky 2nd and 4th rates
Timber, dense pines on 8000 chs.
Mountainous and heavily timbered land
80.00 chs

June 6 1904

June 7 1904. Sky overcast observation impossible
East on a random line bet. secs. 11 and 14
40.00 Set temp. 1/4 sec. cor.
79.92 Intersect N and S. line 7 lks. N. of the cor. of secs. 11, 12, 13 and 14
Thence I run
N. 89° 57' W. on true line bet. secs. 11 and 14
Descend along S. W. slope of ridge over loose slide rock,

Subdivisions of T.14 N R 2 W.

Chains	
36,70	Edge of abrupt and precipitous descent bears N W and S.E. descend over same
	Knowing that 1/4 sec. cor. would fall on a cliff and could not be set at this point I set a sandstone 17 X 8 X 6 ins. 11 ins. in the ground for Witness 1/4 sec. cor, marked W.C. 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of Cor. Pits impracticable
40,00	The 1/4 sec cor. falls on cliffs and could not be set,
48,00	Foot of abrupt descent brs. N. W. and S. E.
	Enter dense pine timber
79,92	The cor. of secs. 10, 11, 14 and 15
	Land mountainous
	Soil, rocky and stony 4 rate
	Timber, dense pines on 31,92 chs.
	Mountainous or heavily timbered land on 79,92 chs.
	June 7th at this cor. I set off 22°47' N on decl. arc and at 12h 00 m l. m t. observe the sun on the meridian; the resulting lat. is 40°45' N. or within 1' of the proper lat.
	N. 0°2' W. bet. secs. 10 and 11
	ascend along S. W. slope of ridge through dense pine timber
30,00	heavy timber bears N. W. and S. E.
	begin more abrupt ascent brs. N W and S.E.
40,00	Top of rocky ridge bears E. and W. descend 1/4 sec. cor. falls on a rock in place 15 X 8 X 6 ~~ft.~~ above ground, at the exact cor point I mark a cross (X) with 1/4 W. of cross (X) and raise a mound of stone 2 ft. base 1 1/2 ft high W. of Cor. Pits impracticable
47,00	Enter scattering pine timber brs. E and W.
58,25	Spring Branch 3 lks. wide 6 ins deep drs. W. ascend

Subdivision of T. 4 N. R. 2 W.

Ch. in	
64,00.	Top of spur project W. descend
80,00	Set a sandstone 18 x 6 x 5 ins 12 ins, in the ground for cor. of secs. 2, 3, 10 and 11 marked with 5 notches on S. and 2 notches on E. edges; from which.
	A pine 6 ins. diam. brs. N. 40° E. 129 lks. dist. marked T. 4 N. R. 2 W. S. 2 B. T.
	A pine 8 ins. diam. brs. S. 55° 30' E. 185 lks. dist. marked T. 4 N. R. 2 W. S. 11 B. T.
	A pine 14 ins. diam. brs. S. 29° 30' W. 270 lks. dist. marked T. 4 N. R. 2 W. S. 10 B. T.
	A pine 14 ins. diam. brs. N. 64° W. 161 lks. dist. marked T. 4 N. R. 2 W. S. 3 B. T.
	Land mountainous.
	Soil, rocky and stony 4th rate.
	Timber, dense pines on 30,00 chs.
	scattering pines on 33,00 chs.
	Mountainous land on 80,00 chs.

	I 89° 57' E. on random line bet. secs. 2 and 11
40,00	Set tem. for ¼ sec. cor.
79,92	Intersect N. and S. line 12 lks. S. of the cor. of secs. 2, 3, 11 and 12
	Thence I. ...
	I 89° 57' W. on true line bet. secs. 2 and 11 descend along N. E. slope of rocky ridge.
3,00	Top of ridge bis. N. W. and S. E. descend
39,96	Set a quartzite stone 12 x 10 x 5 ins, 8 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of cor.
	Pits impracticable
60,00	Enter scattering pine timber N. and S.
79,92	The cor. of secs. 2, 3, 10 and 11
	This corner is 1000 ft. below top of ridge East.
	Land, mountainous
	Soil, rocky 4 rate.

Subdivisions of T. 4 N., R. 2 W.,

Chains	
	Timber, scattering pines on 19.92 chs Mountainous land on 79.92 chs, June 7th 1904
	June 8th at 8 h 00 m a. m. l. m. t, I set off 40°46' N. on the lat. arc, 22°52' W on the decl. arc. and determine a meridian with the solar at the cor. of secs. 2, 3, 10 and 11 Thence I run North 0° 2' W. on true line bet secs. 2 and 3 Descend along W. slope of ridge through scalling pine timber,
40,00	1/4 sec. cor. falls on a rock in place 2 x 3 x 2 ft. above ground, at the exact cor. point I mark a cross (X) with 1/4 W. of the (cross) from which; a pine 14 ins. diam brs. N. 58° 30' E, 33 lks; dist, marked 1/4 S. 2 B, T, a pine 10 ins. diam brs. S. 33° 30' W, 50 lks, dist, marked 1/4 S. 3 B, T,
49,00	Spring branch 3 lks. wide 6 ins, deep course S. W, ascend
70,00	Leave scattering timber brs. E and W,
79,96	Intersect the First Standard Parallel North 2.50 chs. E. of the standard cor. of secs, 34 and 35 heretofore described Set a quartzite stone 8 x 10 x 9 ins, 12 ins. in the ground for closing cor. of secs. 2 and 3 marked C C on S. with 2 grooves on E, and 4 grooves on W faces, and raise a mound of stone 2 ft base 1½ ft. high, S. of cor. Pits impracticable Land, mountainous Soil, rocky and stony 3rd and 4th rates Timber, scattering pines on 70.00 chs, Mountainous land on 79.96 chs,

Subdivisions of T. 4 N R 2 W

Cor. the cor. to secs. 33 & 34 are S. Bdy. of Tp. [illegible] [illegible]

N. 0° 2' W. bet. secs. 33 and 34
ascend rocky S. slope of ridge
through scattering pine timber

7.00 Draw drains S. E. ascend over loose
slide rock, Leave scattering pine
timber

35.00 Top of rocky ridge bro. N. E. and S. W.
600 ft. above draw, descend along
N. slope of ridge

40.00 Set a sandstone 14 X 10 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 1 1/2 ft high
W. of cor. Pits impracticable

75.00 Bottom of Creek 5 lks. wide 6 ins. deep
drains W., ascend

80.00 The cor. of secs. 27, 28, 33 and 34 falls
on a rock in place 2 X 2 X 1 ft
above ground, at the exact cor.
point I cut a cross (X) and mark
1 notch S, and 3 notches E of the
cross (X) for cor. of secs. 27, 28, 33
and 34 and raise a mound of
stone 2 ft. base 1 1/2 ft high W. of cor.
Pits impracticable
Land, mountainous
Soil, rocky and stony 4th rate
Timber, scattering pines on 7.00 chs.
Mountainous land on 80.00 chs.
June 8th at this cor. I set off
22° 52' N on the decl arc and at 12h
00m L. m. t. observe the sun on the
meridian the resulting lat. is
40° 43' N. [illegible] within 1' of the proper
lat

N. 89° 56' E. on random line bet. secs. 27 and 34

40.00 Set temp. 1/4 sec. cor.

Subdivisions of T. 4 N R. 2 W.

Chains	
79.90	I intersect N. and S. line 9 lks. N. of cor. of secs. 26, 27, 34 and 35. Thence I run West on a true line bet. secs. 27 and 34 ascend along rough broken S. E. slope of ridge through loose slide rock
35.00	Saddle of ridge bears N and S. descend along steep W. slope
39.95	Set a quartzite stone 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 1½ ft high W. of cor. Pits impracticable
79.90	The cor. of secs. 27, 28, 33 and 34 Land, mountainous. Soil rocky and stony 4th rate No timber Mountainous land on 79.90 chs.

June 8th at 3h 00m p. m. L. m. t. I set off 40° 43' on the lat arc 22° 53' N on the dec. arc; and determine a meridian with the solar at the cor. of secs. 27, 28, 33 and 34
Thence I run
N. 0° 2' W. bet. secs. 27 and 28 ascend along steep S. W. slope of ridge over loose slide rock,

32.50	for 1st mile ascent ascend
40.00	Set a quartzite stone 16 X 12 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
60.00	High Rocky ridge bears N W and S. E, 1200 ft. above sec. cor. descend along steep N. slope through loose slide rock.

Subdivisions of T. 4 N R 2 W.

Chain	
80,00	Set a quartzite stone 20x20x 12 ins, 15 ins in the ground for cr. of secs. 21, 22, 27 and 28 marked with 2 notches on E. and 3 notches on E edges and raise a mound of stone 2 ft. base 1½ ft. high W. of Cr. Pits impracticable Land, mountainous Soil, rocky and stony Slate No timber. Mountainous land on 80,00 chs
	East on a random line bet. secs. 22 and 27
40,00	Set temp. 1/4 sec. cor.
80,17	Intersect N and S. line 23 lks. E. of the cr. of secs. 22, 23, 26 and 27
	Thence I run S. 89°50' W. on a true line bet. secs. 22 and 27 Descend over rough broken country. over loose slide rock
34,00	Head of draw drains N. E, ascend
40,06	Set a quartzite stone 18x10x 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 Cr.
64,00	Top of ascent has N.W. & S.E.
80,17	The cor. of secs. 21, 22, 27 and 28 Land, mountainous Soil, rocky and stony Slate rock No timber Mountainous land on 80,17 chs. June 8th 1904

June 9th at 8h 00m a. m. L. M. T.
I set off 40°44' N. on the lat. arc,
22°57' W on the dec. arc. and

determine a meridian with the solar at the cor. of secs. 21, 22, 27 and 28
Thence I run
N. 0° 2' W. bet. secs; 21 and 22
Descend along rough broken N. slope of ridge over loose slide rocks.
23.00 Leave broken brush bears. SW & SE
40.00 Set a quartzite stone 20 x 10 x 6 ins, 15 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.
45.00 Enter dense pine timber E. and W,
61,50 Creek 3 lks. wide 6 ins deep drains E. ascend, 600 ft below sec. cor.
80.00 Top of ridge brs. E. and W,
Set a sandstone 18 x 12 x 10 ins, 12 ins. in the ground for cor. of secs. 15, 16, 21 and 22 marked 4 N. on N.E. and 2 W. on S.E. faces with 3 notches on S. and E. edges from which
A. pine 14 ins, diam. brs N. 52° E. 14 lks. dist marked T. 4 N. R 2 W. S. 15 B. T,
A pine 13 ins, diam brs. S. 74° 30' E, 24 lks. dist. marked T. 4 N, R 2 W S. 22 B. T,
A. pine 24 ins. diam. brs. S. 48° W. 26 lks. dist. marked T. 4 N. R. 2 W, S. 21, B. T,
A. pine 24 ins. diam brs, N. 48° W. 26 lks. dist. marked T. 4 N. R 2 W, S. 16 B. T,
Land mountainous
Soil, rocky and stony 3rd and 4th rates
Timber, dense pines on 35,00 chs,
Mountainous or heavily timbered land on 80,00 chs.

N. 89° 50' E. on random line bet. secs, 15 and 22
41.00 Set temp. 1/4 sec. cor,
[illegible]4.98 Intersect N and S. line 19 lks. N. of

Subdivisions of T. 4 N R 2 W.

10 Chains	
	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 Descend over rough mountainous land through dense pine timber
27,00	Leave dense pine timber enter open brars. N.W. and S.E,
36,00	Creek 10 lks. wide 1 ft. deep runs S. 70° E.
38,00	Spring branch 3 lks wide 6 ins. deep runs N. E,
39,99	Set a quartzite stone 17 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 1 ft. high N. of Cr,
	Pits impracticable
53,00	Enter dense pine timber bears N. W. and S.E, ascend E. slope of ridge
79,98	The cor. of secs. 15, 16, 21 and 22
	Land, mountainous Soil, sandy loam. 2nd and 3rd rates Timber, dense pines on 53.98 chs, Mountainous or heavily timbered land on 79.98 chs,
	June 9th at this cor. I set off 22° 57" Non the decl. arc. and at 12 h 00 m L. m. t. observe the sun on the meridian, the resulting lat is 40° 45' N. or within 1' of the proper lat.

	N. 0° 2' W. bet. secs. 15 and 16 Descend along steep N. slope of ridge through dense pine timber.
5,50	Spring branch 10 lks. wide 1 ft. deep runs S. E. ascend
40,00	Top of ridge brs. E. and W, descend Set a quartzite stone 16 x 10 x 6 ins. 11 ins. in

Subdivisions of T. 4 N., R. 2 W.

Chains	
19,00	Spring branch 3 lks. wide 6 ins. deep course S.E. ascend.
30,30	Top of ridge brs. N. and E. descend
31,70	Trail brs. N.W. and S.E.
38,10	West Fork of White Rocks Creek 10 lks. wide 2 ft. deep course S.E. ascend
40,10	Set a quartzite stone 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
48,00	Enter timber brs. N.W. and S.E.
80,20	The cor. of secs. 9, 10, 15 and 16

Land, mountainous
Soil, sandy loam 2nd and 3rd rates
Timber, dense pines on 49,20 chs,
Mountainous & heavily timbered land on 80,20 chs.

June 9th 1904
9

June 10th at 8h 00m a.m. l.m.t.
Set off 40° 45' W. on the lat. arc 23° 02' N. on the decl. arc and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16
Thence I run
N. 0° 2' W. bet secs. 9 and 10
Descend along N.E. slope of ridge through dense pine timber

17,00	Creek 5 lks. wide 6 ins. deep drains E.
21,00	Spring branch 3 lks. wide 4 ins. deep drains S. 70° E.
41,00	Set a quartzite stone 18 x 12 x 4 ins, 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face from which a pine 7 ins. diam. brs. N. 70° W, 33 lks. dist. marked 1/4 S. 9 B.T., a pine 18 ins. diam brs. S. 29° E. 56 lks. dist, marked 1/4 S. 10 B.T.,

Subdivisions of T. 4 N R. 2 W,

Chains	
49,50	West Fork of White Rocks creek 15 lks. wide 16 ins. deep course S.E. ascend
57,00	Trail N W and S. E,
78,00	Top of ridge brs N.W. and S.E. descend
80,00	Set a quartzite stone 17 X 7 X 6 ins. 11 ins. in the ground for. cor. of secs, 3, 4, 9 and 10 marked with 5 notches on S and 3 notches on E. edges from which A pine 6 ins. diam brs. N. 42° E, 50 lks. dist. marked T 4 N. R 2 W. S. 3 B. T, A pine 24 ins. diam brs. S. 25° E 26 lks. dist. marked T 4 N. R 2 W. S. 10 B. T, A pine 14 ins diam brs. S. 43° W, 47 lks. dist. marked T. 4 N. R. 2 W. S. 9 B. T, A pine 10 ins. diam. brs. N. 45° W. 50 lks. dist. marked T. 4 N, R 2 W. S. 4 B. T, Land, mountainous Soil, sandy and stony 3rd rate Timber, dense pines on 80,00 chs Mountainous or heavily timbered land on 80,00 Chs.
	S. 89° 57' E. on random line bet. secs. 3 and 10
11,27	West Edge of lake, Set temp. meander Cor.
40,00	1/4 Sec. Cor. falls in lake To determine the distance across the lake I set a flag, on line on E. side of lake then measure a base line N. 0° 3' E. 35.00 Chs. to a point whence the flag bears S. 41° 48' E. From the flag the N. End of base bears N. 41° 48' W. therefore the distance is tan. 41° 51'' X base or .8957 X 35 = 31,35 11,27 + 31,35 makes
42,62	To East side of lake, set temp meander Cor.
80,04	Intersect N. and S. line at the cor. of secs. 2, 3, 10 and 11 thence I run N. 89° 57' W. on true line bet. secs. 3 and 10 Descend over rough broken country through

Subdivisions of T. 4 N R. 2 W.

ch ins	
	dense pine timber
37,42	To East Edge of Lake
	Set a quartzite stone 14 x 8 x 6 ins. 9 ins. in the ground for meander cor. of fract. secs. 3 and 10 marked M. C. on W with V grooves on S. faces from which a pine 12 ins diam brs. N. 10° E. 20 lks. dist. marked T. 4 N. R 2 W. S. 3 M.C. B. T, a pine 8 ins. diam. brs S. 30° E. 40 lks. dist. marked T. 4 N. R. 2 W S. 10 M. C. B. T,
40,02	½ sec. cor. falls in lake and could not be set,
68.77	To West Edge of Lake
	Set a granite stone 18 x 10 x 5 ins, 12 ins. in the ground for meander cor. of fract. secs. 3 and 10 marked M C on E with V grooves on S. faces. from which a pine 8 ins. diam. brs. N. 81° W. 93 lks. dist. marked T. 4 N, R 2 W S. 3 M C B T, a pine 8 ins. diam. brs. S. 85° 30' W. 86 lks. dist. marked T. 4 N, R 2 W. S. 10 M C. B. T,
	ascend through dense pine timber
80,04	The cor. of secs. 3, 4, 9 and 10
	Land, mountainous
	Soil, sandy loam 3rd and 3 Grades
	Timber, dense pine on 47,50 chs.
	Mountainous or heavily timbered land on 80,00 chs,
	June 10th at this cor. I set off 23° 02' W on the decl. arc and at 12 h 00 m l. m. t. observe the sun on the meridian the resulting lat. is 40° 46' N. or within 1' of the proper lat,

	N. 0° 2' W. on a true line bet. secs. 3 and 4
	Descend over rough broken country through dense pine timber
28.00	Spring branch 3 lks wide. drains E. ascend

Subdivisions of T. 4 N R 2 W,

Chains	
40,00	Top of ridge brs. E. and W. descend Set a granite stone 16 x 12 x 8 ins, 11 ins, in the ground for 1/4 sec. cor. marked 1/4 on W. face from which a pine 8 ins. diam. brs. S. 36° E, 17 lks. dist. marked 1/4 S, 3 B.T, a pine 24 ins. diam brs. N. 76° 30' W, 79 lks. dist marked 1/4 S, 4 B.T,
55,00	Gulch drains E. 500 ft. below top of ridge ascend
70,00	Top of steep ascent brs. E and W, continue gradual ascent,
80,05	Intersect the 1 st Standard Parallel North 2,27 chs. E. of the standard. cor. of secs, 33 and 34 hereafter described Set a sandstone 18 x 12 x 8 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 1 1/2 ft. high S. of Cor. Pits impracticable No suitable bearing trees available Land, mountainous Soil, rocky and stony 4th rate Timber, dense pines on 80,05 chs. Mountainous and heavily timbered land on 80,05 chs.
	June 10th at 4h 00m p. m. l. m. t. I set off 40° 42' N. on the lat. arc 23° 03' N on the decl arc and determine a meridian with the solar at the cor. of secs 4, 5, 32, & 33 on S bdy of Tp. hereafter described Thence I run N. 0° 3' W. bet. secs. 32 and 33 Ascend steep S. Slope of ridge over loose slide rock.
35,00	Rocky ridge brs. N. 80° W and S. 80° E,

Subdivisions of T. 4 N R 2 W.

Chain	
	500 ft. above sec. cor. south, descend steep N slope over loose slide rock,
4,00	Set a quartzite stone 18 x 12 x 6 ins., 12 ins. in the ground for 1/4 sec. cor. marked 1/4 on W. face and raise a mound of stone 2 ft base 1½ ft. high W. of Cor. Pits impracticable
65,00	Creek 5 lks. wide 6 ins. deep course W, ascend, Enter scattering pines.
80,00	Set a quartzite stone 16 x 10 x 6 ins. 11 ins. in the ground for cor. of secs. 28, 29, 32 and 33 marked with 1 notch on S. and 4 notches on W. edges, from which a pine 10 ins. diam. brs. N. 56° E. 84 lks. dist. marked T 4 N. R 2 W. S. 28 B. T, a pine 16 ins. diam. brs. S. 50° 30' E. 48 lks. dist, marked T 4 N R 2 W S. 33 B. T, a pine 16 ins. diam. brs. S. 6° 45' W, 53 lks. dist. marked T 4 N R 2 W S. 32 B T, a pin 9 ins. diam. brs, N. 39° W, 245 lks. dist. marked T 4 N R 2 W S. 29 B. T, Land, mountainous Soil, rocky and stony 4th rate Timber, scattering pines on 1500 chs. Mountainous land on 80,00 chs.
	June 10th 1904
	June 11th Sky overcast and P.M. observations impossible N. 89° 56' E. on a random line bet. secs. 28 and 33
4,00	Set temp. 1/4 sec. cor,
80,00	Intersect N and S. line 14 lks. E. of the cor of secs. 27, 28, 33 and 34
	Thence I run S. 89° 50' W. on true line bet. secs. 28 and 33 Descend along rough rocky S. slope of ridge along N side of canon
10,00	Enter scattering pines
40,00	Set a quartzite stone 24 x 12 x 10 ins, 18 ins. in

Ch. — Subdivisions of T. 4 N R 2 W,

	the ground for 1/4 sec. cor. marked 1/4 on N face from which a pine 10 ins. diam. brs. N. 28° W, 83 lks. dist. marked 1/4 B. 28 B. T, a pine 8 ins. diam. brs. S. 49° 30' W, 190 lks. dist. marked 1/4 B. 33 B. T,
80,00	The cor. of secs. 28, 29, 32 and 33 Land, mountainous Soil, rocky and stony 4th rate Timber, scattering pines on 7,000 chs. Mountainous land on 80,00 chs Junc. 11th at this cor. I set off 23° 06' W on the decl. arc. and at 12h 00m 0s, t. observe the sun on the meridian the resulting lat is 40° 43' or within 1' of the proper lat.
	N. 0° 03' W. bet secs. 28 and 29 ascend along rocky S. slope of ridge through scattering pine timber
1,00	Leave scattering pine timber
30,00	Rocky spur projects W, continue ascent along rocky S. W. slope of ridge
40,00	Set a quartzite stone 18 x 10 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 Co. Pits impracticable
80,00	Top of ridge. Trails N. and S. E,
	Set a quartzite stone 20 x 12 x 6 ins. 15 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; 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 Timber, scattering pines on 1000 chs Mountainous land on 80,00 chs,

Subdivisions of T. 4 N R 2 W.

Ch

N. 89° 50' E. on a random line bet. secs. 21 and 28
40,00 Set stmp. 1/4 sec cor.
80,30 Intersect N. and S. line 2 lks. S. of the cor. of secs. 21, 22, 27 and 28
Thence I run
S. 89° 49' W. on a true line bet. secs. 21 and 28
Ascend over rough broken country along bench
20,00 Begin abrupt ascent bears N, W, and S. E,
37,00 Top of abrupt ascent bears NW and SE, 500 ft above beginning, ascend along N. slope of ridge
40,15 Set a quartzite stone 15X10 X5 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
80,30 The cor. of secs. 20, 21, 28 and 29
Land, mountainous
Soil, rocky and stony 4th rate
No timber
Mountainous land on 80,30 chs,

June 11th 1904

June 13th at 8h 00m a. m. l. m. t. I set off 40° 44' N. on the lat. arc. 23° 14' W on the decl. arc. and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29
Thence I run
N. 0° 3' W. bet. secs. 20 and 21
Ascend gradually along top of rough and rocky ridge
40.00 Set a quartzite stone 18X10 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,
80.00 Set a quartzite stone 20 X 10 X 7 ins. 15 ins. in

Subdivision of T. 44 N., R. 2 W.,

the ground for cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 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 stony 4th rate
No timber
Mountainous land on 80.00 chs.

N. 89° 49' E. on a random line bet. secs. 16 and 21.
40.00 Set temp. ¼ sec. cor.
80.16 Intersect N. and S. line 2 lks. N. of the cor. of secs. 15, 16, 21 and 22
Thence I run
S. 89° 50' W. on true line bet. secs. 16 and 21.
Ascend along top of ridge through dense pine timber.
40.07½ Set a quartzite stone 6 x 12 x 3 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on W. face from which
a pine 10 ins. diam. brs. N. 41° 30' W. 19 lks. dist. marked ¼ S. 16 B. T.,
a pine 7 ins. diam. brs. S. 6° W. 42 lks. dist. marked ¼ S. 21 B. T.,
52.00 Leave dense pine timber bears E. and W., begin abrupt ascent brs. N. & S., over loose slide rock,
65.00 Top of abrupt ascent brs. N. and S. 800 ft. above ¼ sec. cor. and 1000 ft. above sec. cor. ascend
80.15 The cor. of secs. 16, 17, 20 and 21
Land, mountainous.
Soil, rocky and stony 4th rate
Timber, dense pine on 52.00 chs.
Mountainous land on 80.15 chs.
June 13th at this cor. I sit off 23° 14' on the decl. arc. and at 12h 00m l. m.

Subdivision of T 4 N. R. 2 W.

t. observe the sun on the meridian
the resulting lat is 40° 45' N.

N. 0° 3' W. bet secs. 16 and 17
Descend gradually along top of N. E.
slope of rocky ridge
40.00 Set a quartzite stone 18 x 4 x 5 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
74.00 Begin abrupt descent brows E. and W.
80.00 Set a quartzite stone 8 x 10 x 5 ins. 10 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 stony 4th rate
No timber.
Mountainous land on 80.00 chs.

N. 89° 50' E. on a random line bet. secs. 9 and 16
40.00 Set temp. 1/4 sec. cor.
80.22 Intersect N. and S. line 5 lks. N. of
the cor. of secs. 9, 10, 15 and 16
Thence S.
S. 89° 48' W. on true line bet. secs. 9 and 16
Ascend over rough broken country over
loose slide rock through dense
pine timber
40.11 Set a quartzite stone 14 x 10 x 6 ins. 9 ins.
in the ground for 1/4 sec. cor. marked
1/4 on N. face; from which

Subdivisions of T. 4 N R 2 W.

Chains	
	a pine 8 ins. diam. brs. N, 20° E, 16 lks. dist, marked 1/4 S. 9 B. T,
	a pin 12 ins. diam. brs. S. 35° W, 25 lks, dist, marked 1/4 S. 16 B. T,
50,00	Leave dense pine timber brs. N. and S,
80,22	The cr. of secs. 8, 9, 16 and 17
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, dense pine on 50,00 chs
	Mountainous land on 80,22 chs.
	June 13th 1904.

June 14th at 8h 0.0m a.m. l.m.t. I set off 40° 45' N. on the lat. arc. 23° 17' on the decl. arc. and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17

Thence I run

N. 0° 3' W. bet. secs. 8 and 9.

Descend steep N. slope of ridge over loose slide rock

20,00	Enter dense pine timber brs. E and W,
26,00	Cross 5 lks. wide 1 ft deep course E, ascend S. W. slope of ridge
35,00	Leave dense pine timber brs. E. and W,
40,00	Set a quartzite stone 8 x 9 x 5 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 Cr. Pits impracticable
56,00	Top of rocky spur projects S. E. descend
80,00	Set a quartzite stone 16 x 10 x 8 ins, 11 ins. in the ground for cor. of secs, 4, 5, 8 and 9 marked with 8 notches on S. and 4 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft high W. of cr. Pits impracticable
	Land, mountainous
	Soil, rocky and stony 4th rate

Subdivisions of T. 4 N R 2 W.

	Timber, dense pine on 15.00 chs. Mountainous land on 80.00 chs.
	N. 89° 48' E. on random line bet. secs. 4 and 9
40.00	Set temp. 1/4 sec. cor.
52.13	West side of lake. Set temp Meander cor.
56.68	To continue my line I offset as follows.
4.55	N. 11° W, 3.00 chs thence on offset line to 56.68 counting from sec. cor. offset
	S. 11° E 3.00 chs. Set temp Meander Cor.
80.14	Intersect N and S. line 23 dks. N. of the cor. of secs. 3, 4, 9 and 10
	Thence I run
	S. 89° 58' W. on true line bet. secs. 4 and 9 ascend E. slope of ridge through dense pine timber
2.00	Top of ridge bears N. W and S. E, descend
19.00	Leave timber bears N. and S.
20.60	Pack trail bears N. W and S. E.
23.46	On E. Bank of lake Set a quartzite stone 24 x 10 x 5 ins, 18 ins. in the ground for meander cor. of fract. secs. 4 and 9 marked M.C. on W. with 5 grooves on S. faces. and raise a mound of stone 2 ft. base 1½ ft high W. of Cor, Pits impracticable
	To pass the lake I offset as follows. N 11° W, 3.00 chs. thence S. 89° 58' W. 4.55 chs. on offset line thence S. 11° E. 3.00 chs to East bank of lake,
28.01	Counting from Sec. Cor., Set a quartzite stone 24 x 10 x 5 ins. 9 ins. in the ground for Meander cor. of fract. secs, 4 and 9 marked M.C. on E. with 5 grooves on S. faces and raise a mound of stone 2 ft. base 1½ ft. high E. of Cor. Pits impracticable
29.10	Begin ascent over rough broken country

Subdivisions of T. 4 N R 2 W.

Chain	
	along E. slope of ridge
40,07	Set a quartzite stone 20 X 9 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
76,50	Top of ridge brs. N and S. descend
80,14	The cor. of secs. 4, 5, 8 and 9
	Land, mountainous
	Soil, rocky and stony 4th rate
	Timber, dense pine on 11,00 chs mountainous land on 80,14 chs.
	June 14th at this cor. I set off 23° 17' E on the decl. arc and at 12h 00m l. m. t. observe the sun on the meridian the resulting lat is 40° 46' N or within 1' of the proper lat,

	N. 0° 3' W. on true line bet. secs. 4 and 5
	Descend steep rocky N. W. slope of ridge
5,00	Enter scattering pine timber brs. E. and W,
30,00	Spring branch 3 lks. wide 6 ins. deep drains E. ascend
33,00	Rocky spur projects E. desc,
40,00	Falls on a rock in place 15 X 10 X 4 ft. above ground, at the exact cor. point I cut a cross (X) with 4 W. of the cross (X) for 1/4 sec. cor, from which a pine 12 ins. diam. brs. N. 11° 15' W. 139 lks. dist marked 1/4 P. 5 B. T,
	a pine 30 ins. diam brs. S. 66° 30' E. 74 lks. dist marked 1/4 S. 4 B. T,
48,00	Creek 10 lks. wide 1 ft. deep course S. E. ascend S. W. slope of ridge
60,00	Rocky ridge brs. N. W. and S. E. desc,
67,00	Draw drains S. E. ascend over slide rock along S. E. slope - Pine scattering

Subdivisions of T. 4 N R 2 W.

Chains	
	fine timber
79.90	Intersect the First Standard Parallel North 2,00 chs. E. of the Standard Cor. of Secs. 32 and 33 heretofore described Marked a rock in place 3 x 4 x 3 ft. above ground for closing cor. of secs. 4 and 5, at the exact cor. point I cut a cross (X) with C C B. and 4 grooves E and 2 grooves W. of the cross (X) and raise a mound of stone 2 ft. base 1½ ft. high B of the cor. Pits impracticable
	Land, mountainous
	Soil, rocky and stony
	Timber, scattering pine on 62,00 chs.
	Mountainous land on 79.90 chs.
	From the cor. to Secs. 31 & 32 on the S. Bdy. of Tp. heretofore described Run N. 0° 45' W. Dist. secs. 31 and 32
	Ascend over rough broken country along E. slope of ridge
30.00	High rocky ridge bears E. and W. 500 ft above sec. cor. descend along rocky W. slope of ridge
40.00	Falls on a rock in place 3 x 3 x 2 ft. above ground, at the exact cor. point I cut a cross (X) with ¼ W. of cross (X) for ¼ sec. cor. and raised a mound of stone 2 ft; base 1½ ft. high W. of cor. Pits impracticable
63.00	Enter pine timber bears E. and W.
68.50	Creek 5 lks. wide 5 ft. deep course W. ascend 500 ft. below top of ridge
75.00	Leave dense pine timber bears E and W. begin abrupt ascent bears E + W. along E. slope of ridge
80.00	Set a quartzite stone 18 x 10 x 6 ins. 12 ins. in the ground for cor. of secs. 29, 30, 31 and 32 marked with 1 notch on E. and 5 notches on E. edges and raise a mound of

Subdivisions of T. 4 N. R. 2 W.

Chains	
	stone 2 ft. base 1½ ft. high N. of Cor.
	Pits impracticable
	Land, mountainous
	Soil, rocky 4th rate
	Timber, dense pine on 12.00 chs.
	Mountainous land on 80.00 chs.
	N. 89° 56' E. on random line bet. secs. 29 and 32
40.00	Set temp. ¼ sec. cor.
79.90	Intersect M. and D. line 19 lks. N. of the
	Cor. of secs. 28, 29, 32 and 33
	Thence I run
	N. 89° 56' W. on true line bet. secs. 29 and 32
	Ascend gradually along rocky S. slope
	of ridge
38.00	Enter timber bears N. E. and S. W.
39.95	Set a sandstone 14 x 10 x 6 ins. 9 ins. in the
	ground for ¼ sec. cor. marked ¼ on N.
	face; from which
	a pine 10 ins. diam. brs. N. 15° E. 15 lks. dist.
	marked ¼ S. 29 B. T.
	a pine 8 ins. diam. brs. S. 20° E. 32 lks. dist.
	marked ¼ S. 32 B. T.
52.00	Bottom of draw drains S. ascend,
72.00	Leave timber bears N. and S.
79.90	The cor. of secs. 29, 30, 31 and 32
	Land, mountainous
	Soil, rocky and stony 3rd and 4th rate
	Timber, dense pines on 34.00 chs.
	Mountainous land on 79.90 chs.
	June 14th 1904
	June 15th 1904. Sky overcast 9 A.M. Observations impossible.
	N. 89° 56' W. on random line bet. secs. 30 and 31
40.00	Set temp. ¼ sec. cor.
80.30	Intersect the West Bdy. of the township
	16 lks. N. of the cor. of secs. 25, 30, 31 and 36
	heretofore described

Subdivisions of T. 4 N. R. 2 W.,

@ Rains

June 15th at 10 h. 00 m a. m. l. m. t. D. set off 40° 43' N. on the lat. arc, 23° 20' N. on the decl. arc, and determine a meridian with the polar at the cor. of secs. 25, 30, 31 and 36
Thence I run
N. 89° 49' E. on true line bet. secs. 30 and 31
Descend along rough rocky S. W. slope of ridge through dense pine timber
34,00 Bottom of draw drains S. W. ascend
40,30 Set a quartzite stone 18 x 10 x 6 ins., 12 ins. in the ground for 1/4 sec. cor., marked 1/4 on N. face from which:
A pine 6 ins. diam., bears N. 30° W. 18 lks. dist. marked 1/4 D. 30 B. T.
A pine 10 ins. diam. bears S. 32° W. 45 lks. dist. marked 1/4 D. 31 B. T.
60,00 I enter dense pine timber bears N. W. and S. E.,
80,30 The cor. of secs. 25, 30, 31 and 36
Land, mountainous
Soil, rocky and stony 4th rate
Timber, dense pines on 60,00 chs.
Mountainous land on 80,30 chs.
June 15th at this cor. I set off 23° 20' N. on the decl. arc and at 12 h. 00 m. l. m. t. observe the sun on the meridian the resulting Lat is 40° 43' N. or within 1' of the proper Lat.

N. 0° 4' W. bet. secs. 29 and 30
descend steep rocky S. slope of ridge
40,00 Set a quartzite stone 18 x 10 x 5 ins., 10 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 This cor. is 500 ft. about the sec. cor. 1/2 mile south of it,
80,00 Set a quartzite stone 20 x 10 x 6 ins., 15 ins. in

Subdivisions of T. 4 N R 2 W.

Chains

the ground for cor of secs. 19, 20, 29 and 30, and raise a mound of stone 2 ft. base 1½ ft high W. of cor.

Land, mountainous.
Soil, rocky and stony 4th rate
No timber
Mountainous land on 80.00 chs.

June 13th at 3h 00m p.m. l.m.t. I set off 40°44' N. on the lat. arc 23°20' N on the decl arc and determine a meridian with the solar at the cor. of secs. 19, 20, 29 & 30
Thence I run
S. 89°56' E. on random line bet. secs. 20 and 29
40.00 Set temp. ¼ sec. cor.
80.25 Intersect N and S. line 16 lks. S. of the cor. of secs, 20, 21, 28 and 29
Thence I run
S. 89°57' W. on true line bet. secs. 20 and 29
Descend over rough broken country along S. W. slope of ridge
40.12½ Set a quartzite stone 15 X 10 X 10 ins. 10 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
50.00 Head of draw drains S. E. ascend along S. E. slope of rocky ridge
65.00 Top of ascent bears N. E. and S. W. thence along S. slope of ridge
80.25 The cor. of secs. 19, 20, 29 and 30
Land, mountainous
Soil, rocky and stony 4th rate
No timber
Mountainous land on 80.25 chs.

Subdivisions of T. 4 N R 2 W.

Chains	
	S. 89° 49' W. on random line bet. secs. 19 & 30
40.00	Set temp. 1/4 Sec. Cor.
80.60	Intersect the West Boundary of the township 14 chs. N. of the Cor. of secs. 19, 24, 25 and 30 heretofore described
	Thence I run
	N. 89° 43' E. on true line bet. secs. 19 and 30
	ascend over rough, rocky N. slope of ridge
40.60	Fall on a rock in place 2 x 3 x 2 ft. above ground, at the exact Cor. point I cut a cross (X) for 1/4 sec. Cor. marked 1/4 on N. side of cross (X) and raise a mound of stone 2 ft. base 1½ ft. high N. of Cor. Pits impracticable
68.00	Ascend along N. W. slope of ridge
80.00	Top of ridge bears N. E. and S. W. descend
80.60	The Cor. of secs. 19, 20, 29 and 30
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 80.60 Chs.
	June 15th 1904

June 16th at 10h 00m a.m. l.m.t. I set off 40° 44' on the Lat. arc. 23° 22½' from the clock arc. and determine a meridian with the polar at the Cor. of secs. 19, 20, 29 and 30

Thence I run

N. 0° 4' W. on true line bet. secs. 19 and 30

ascend along S. slope of ridge

1.00	Top of ridge bears N. E. and S. W. descend steep N. slope of same
35.00	Draw drains W. 800 ft. below top of ridge ascend,
40.00	Set a quartzite stone 18 x 10 x 8 ins. 12 ins. in the ground for 1/4 sec. Cor. marked 1/4 on W. face, and raise a mound of stone

Subdivisions of T. 4 N. R. 2 W.

Chains	
	2 ft. base 1½ ft. high W. of Cor. Pits impracticable
67.00	Top of rocky ridge bears E. and W. 500 ft. above draw, descend along N slope of same
80.00	Set a quartzite stone 15 x 10 x 6 ins., 10 ins. in the ground for cor. of secs. 17, 18, 19 and 20 marked with 2 notches on S. and 5 notches on E. edges and raise a mound of stone 2 ft. base 1½ ft high W. of Cor. Pits impracticable Land, mountainous Soil, rocky and stony 4th rate No timber Mountainous land on 80.00 chs. June 16th at this cor. I set off 23° 22' N on the decl. arc, and at 12h 00m l. m.t. observe the sun on the meridian the resulting lat is 40° 48' N. of within 1' of the proper lat.
	N. 89° 57' E. on random line bet. secs. 17 and 20
40.00	Set temp. ¼ sec. cor.
80.20	Intersect N. and S. line 21 chs. S. of the cor. of secs. 16, 17, 20 and 21 Thence I run S. 89° 48' W. on true line bet. secs. 17 and 20 Descend over rough rocky W. slope of ridge
7.00	Begin more abrupt descent bears N.W. and S.E.
40.10	Set a quartzite stone 16 x 10 x 6 ins. 11 ins. in the ground for ¼ sec. cor. marked ¼ on N. face and raise a mound of stone 2 ft. base 1½ ft. high W. of Cor. Pits impracticable
46.00	Head of draw drains N.W., ascend along rocky W. slope of ridge
80.20	The cor. of secs. 17, 18, 19 and 20

Subdivisions of T. 4 N., R. 2 W.

Chains	
	Land, mountainous Soil, rocky and stony 4th rate No timber Mountainous land on 80.20 chs.
	S. 89°43' W. on random line bet. secs. 18 and 19
40,00	Set timp. 1/4 sec. cor.
80,68	Intersect the West Bdy. of the township 33 lks. S. of the cor. of secs. 13, 18, 19 and 24 heretofore described Thence I run N. 89°57' E. on true line bet. secs. 18 and 19 Ascend over rough rocky N. W. slope of ridge
40,68	Set a quartzite stone 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 1½ ft. high N. of cor. Pits impracticable
80,68	The cor. of secs. 17, 18, 19 and 20 Land, mountainous Soil, rocky and stony 4th rate No timber Mountainous land on 80,68 chs. June 16 1904
	June 17. at 8h 00m a. m. l. m. t. I set off 40°45' N. on the lat. arc 23°24'11" on the decl. arc and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20 Thence I run N. 0°4' W. bet. secs. 17 and 18 Descend over rough broken N. slope of ridge
17,00	Ravine drains N. W. ascend

Subdivisions of T. 4 N. R. 2 W.

Chain

4.00 Top of ridge bears N. W. and S. E. descend
Set a quartzite stone 17x10 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
36.50 Enter pine timber bears N. W. and S. E.
[illegible] Creek 5 lks. wide 6 ins. deep course
N. W. ascend S. W. slope of ridge
68.00 Leave pine timber bears N. W. and S. E.
80.00 Falls on a rock in place 4 x 2 x 4 ft. above
ground, at the exact cor. point I cut
a cross (X) for cor of secs. 7, 8, 17 and 18
marked with 4 notches S. and 5 notches
E. of the cross (X) and raise a mound
of stone 2 ft. base 1½ ft. high W. of Cor.
Pits impracticable
Land, mountainous
Soil, rocky and stony 3rd and 4th ratio
Timber, pines on 12.50 chs.
Mountainous land on 80.00 chs.

N. 89° 48' E. on a random line brt. secs. 8 & 17
4.00 Set temp. 1/4 sec. cor.
80.10 Intersect N and S. line 19 lks. N. of the
cor. of secs. 8, 9, 16 and 17
Thence I run
S. 89° 46' W. on a true line brt. secs. 8 and 17
descend abruptly along rocky N. E. slope
of ridge.
[illegible] Top of abrupt ascent bears N and S. thence
more gradual ascent.
[illegible] Top of ridge bears N. and S. descend
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 1½
ft. high N. of cor. Pits impracticable.
[illegible] Begin more abrupt descent bears N and S.

Subdivisions of T. 4 N, R. 2 W,

Chains	
	along S. W. slope of ridge
80,10	The cor. of secs. 7, 8, 17 and 18
	Land, mountainous
	Soil, rocky and stony 4th rate
	No timber
	Mountainous land on 80,10 chs,
	June 17th at this cor. I set off 23°24' N on the decl. arc. and at 12h 00m l. m. t, observe the sun on the meridian the resulting lat. is 40°45' N. or within 1' of the proper lat,
	S. 89°57' W. on random line bet. secs. 7 and 18
40,00	Set temp. 1/4 sec. cor.
80,70	Intersect the West Bdy. of the township 7 lks. S. of the cor. of secs. 7, 12, 13 and 18
	Thence I run.
	East on a true line bet. secs, 7 and 18
	Descend over rough rocky N. E. slope of ridge
20,00	West Bank of lake 16 chs. long, 7 chs wide, as the same is frozen over I continue to measure over the same - This lake is 500 ft. below sec cor. West,
36 00.	East Bank of lake
	Enter dense pine timber bears N. W. and S. E,
40,70	Falls on a rock in place 3 x 2 x 2 ft, above ground, at the exact cor. point I cut a cross (x) for 1/4 sec. cor, and mark 1/4 N. of the cross (x) from which
	A pine 6 ins. diam. brs. N. 51°30' E. 90 lks. dist. marked 1/4 S. 7 B. T,
	A pine 6 ins. diam. brs. S. 68°30' E. 210 lks. dist. marked 1/4 S, 18 B. T,
54,00	Creek 5 lks. wide 6 ins. deep course N. W.
	ascend S. W. slope of ridge
60,00	Leave dense pine timber bears N. W. and S. E,
80,70	The cor. of secs, 7, 8, 17 and 18
	Land, mountainous
	Soil, rocky and stony 4th rate

Subdivision of T. 4 N. R. 2 W.

Chains	
	Timber, dense pines on 24.00 chs. Mountainous land on 80.70 chs.
	N. 0° 4' W. bet secs. 7 and 8 Ascend steep S. W. slope of ridge over loose slide rock.
5.00	Begin more gradual ascent brars N W and S. E, over rocky bench.
35.00	Top of ascent brars E. and W, descend gradually
40.00	Set a quartzite stone 17X10X10 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
54.00	Begin abrupt descent brars N E. and S. W,
80.00	Falls on a rock in place 4X4X3 ft. above ground, at the exact cor. point I cut a cross (X) for cor. of secs. 5, 6, 7 and 8 marked with 5 notches S. and E. of the cross (X) and raise a mound of stone 2 ft. base 1½ ft high W. of Cor. Pits imp. Land, mountainous Soil, rocky and stony 4th rate No timber Mountainous land on 80.00 chs, June 17th 1904
	June 18th 1904 N. 89° 56' E. on random line bet. secs. 5 and 8
40.00	Set temp. 1/4 sec. cor.
79.92	Intersect W and S. line 7 lks. S. of the cor. of secs. 4, 5, 8 and 9 Thence I run N. 89° 53' W. on true line bet. secs. 5 and 8 Descend along rough N. W. slope of ridge
15.00	Head of ravine drains N.E. 300 ft below sec. cor. East; Ascend abruptly over a series of cliffs and slide rock,

Subdivisions of T. 4 N R 2 W,

Ol =

39,96	Point for 1/4 sec. cor. falls on cliff. and could not be set,
41,70	Marked a rock in place 2 x 1 x 2 ft. above ground for Witness 1/4 sec cor. at the exact cor. point I cut a cross(x) with W.C. 1/4 N. of the cross(x) and raise a mound of stone 2 ft. base 1½ ft. high N. of cor. Pits impracticable From this point U. S. Geological Monument bears N. 10° W. 40 lks. dist.
45,00	Top of ridge bears N. and S. descend, 100 ft. above head of ravine,
60,00	Begin more abrupt descent bears N. and S.
79,92	The cor. of secs. 5, 6, 7 and 8 This cor. is 1000 ft below top of ridge Land, mountainous Soil, rocky and stony 4th rate No timber Very rough mountainous land on 79,92 chs.

West on a random line bet. secs. 6 and 7

40,00	Set temp. 1/4 secs. cor.
80,70	Intersect the West Bdy of the township 9 lks. N. of the cor. of secs. 1, 6, 7 and 12 ~~Thence run~~ described Thence I run N. 89° 56' E. on true line bet. secs. 6 and 7 Descend along N. E. slope of ridge through dense pine timber
15,50	Spring Branch 15 lks. wide 1 ft. deep course S. W, ascend N W. slope of ridge
20,00	Top of ridge bears N. W and S. E, descend
30,00	Leave dense pine timber bears N. and S,
40,70	Set a granite stone 14 x 12 x 5 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
80,70	The cor. of secs. 5, 6, 7 and 8

Subdivisions of T. 4 N R 2 W.

Chains	
	Land, mountainous Soil, rocky and stony 4th rate Timber, dense pine timber on 30.00 chs. Mountainous land on 80.10 chs. June 18th at this cor. I set off 23° 25' W on the decl. arc. and at 12h 00m l.m.t. observe the sun on the meridian the resulting lat is 40°46' N. or within ½' of the proper lat.
	June 18 at 2h 00m p.m. l.m.t. I set off 40°46' N. on the lat arc 25°26' W on the decl. arc. and determine a meridian with the solar. Thence run N. 0° 4' W. on true line bet. secs. 5 and 6 Descend over rough rocky N.W. slope of ridge
1,00	Top of cliff 200 ft. high brass E and W. descend over same.
35,00	Head of draw drains S. W. ascend
40.00	Set a granite stone 18 x 10 x 6 ins, 12 ins. in the ground for ¼ sec. cor. marked ¼ on W. face and raise a mound of stone 2 ft. base 1½ ft. high W. of cor. Pits impracticable
55,00	Top of rocky ridge brass N. W. and S. E, 1000 ft., abov ¼ sec. cor. descend rocky N. E. slope of ridge over loose slide rock.
80,10	Intersect the first Standard Parallel North 1,80 chs. E. of the standard cor. of secs. 31 and 32 Meridian descended Set a sandstone 18 X 10 X 7 ins. 12 ins in the ground for Closing cor. of secs. 5 and 6 marked C.C. on S. with 5 grooves on E. and 1 groove on W. faces. 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 80,10 chs. June 18th 1904

Meanders, T, 4 N, R, 2 W,

Chains

Meanders of lake in secs. 3 and 10
June 20th 1904 at 8h 00m a. m. l. m. t.
I set off 40° 46' N. on the lat. arc,
23° 27' N on the decl. arc, and determine
a meridian with the solar at the
meander cor. of frac'l. secs. 3 and 10
on the W side of lake
Thence I run with meanders in Sec. 10
Over mountainous land through scattering
pines
S. 6½° E, 3,00 chs. Bank 3 ft. high
S. 19° E. 7,20 Chs. Bank 4 ft high
S. 63½° E, 4,20 Chs. Bank 3½ ft high
N. 42¾° E, 4,80 chs. Bank 3 ft high. at
0,50 Chs, creek 25 lks.
wide 2 ft. deep course
S. W. Outlet of lake
S. 56° E. 4,20 Chs. at end of course leave
scattering pine timber Enter open N. and S.
N. 82° E, 16,50 Chs, at End of course Spring Branch 5 lks. wide head S.E.
N 13½° E, 8,10 Chs. to meander cor. of frac'l secs.
3 and 10 on E. side of lake
Land, mountainous soil stony 3rd rate
Timber, scattering pines on 23 40 chs.
Mountainous land 48.00 Chs

Thence in sec. 3,
over mountainous land
N. 18½° E, 4,90 Chs. Bank 4 ft high
N. 33½° W, 12,50 Chs. Bank 4 ft high, at 0.10
chs. creek 10 lks. wide 1 ft deep
drains from the N E,
S. 83° W, 4,00 chs.
S. 23½° W, 11,00 Chs.
S. 81° 15' W. 2,00 Chs
N. 32½° W. 18,30 Chs.
S. 80° W. 1,70 Chs.
S. 25¾° W. 11,00 Chs.
S. 2½° E. 9,20 Chs. to meander cor. of frac'l.

Meanders, T. 4 N, R. 2 W.

Chain

secs. 3 and 10 on W. side of lake
Land, - mountainous
Soil, rocky and stony 3rd and 4th rates
No timber mountainous land. 74.60 chs
June 20th at this cor. I set off 23°27' N on the decl. arc and at 12h 00m l. m. t. observe the sun on the meridian, the resulting lat is 40°46' N. or within 1' of the proper lat.
This is a lake of clear, pure water and has well defined banks from 3 to 4 ft high and has a depth of from 6 to 10 ft.

Meanders of a lake in secs. 4 and 9
June 20th at 2h 00m p.m. l.m.t. I set off 40°46' N. on the lat. arc 23°27' N on the decl. arc and determine a meridian with the solar at the meander cor. of fracl. secs. 4 and 9 on the E. side of the lake.
Thence I run with meanders in sec. 4
Over mountainous land.
N. 66½° W. 5.40 chs. Bank 4 ft. high. at 5.10 chs. Creek 10 lks. wide, 1 ft. deep drains from the North.
S. 10¼° E. 2.30 chs. to meander cor. of fracl. secs. 4 and 9 on W. side of lake
Land mountainous
Soil, rocky and stony 4th rate
No timber
Mountainous land 7.70 chs

Thence in sec 9
S. 9° W. 7.20 chs. Bank 4 ft. high
S. 43½° E. 7.50 chs. Bank 8 ft high

Meanders. T. 41 N R 2 W.

Chains

S. 64° W, 5.00 chs. Bank 3 ft high
S. 12° E, 5.60 chs. Bank 4 ft high
S. 47° E. 5.00 chs Bank 5 ft high
S. 73° E. 13.10 chs. Bank 4 ft high at 12.60 chs.
creek 15 lks. wide 1 ft. deep flows S. E.
Outlet of lake
N. 8 1/2° W. 10.80 chs. Bank 4 ft high
N. 20° W. 10.80 chs. Bank 3 ft high.
N. 60 3/4° W. 7.00 chs. Bank 5 ft high
N. 18° 15' W. 3.40 chs. to meander cor. of fract secs. 4 and 9 on E. side of lake

This lake is of clear water from 5 to 15 ft. deep.
Land Mountainous, soil stony 3rd rate
no timber mountainous land. 75.40 Chs. June 20th 1904

General Discription

This township is all rough and mountainous The soil is nearly all rocky and stony of the 3rd and 4th rates. and practically no vegitation grows upon it except dense pine timber which is found in various places throughout the township. There are five lakes in the township and several spring branches but they have practically no value in this township except for drinking purposes There are no settlers and no indications of mineral in the township. The lakes mentioned above are in sec 5, sec 15 and Secs 7 and 18, 4 and 9 and 3 and 10

Herman C. Feuerbacher
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 Herman E. Freudenthal, 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 4 N R 2 W of the Wiulah Special Base and meridian Utah showing the respective capacities in which they acted:

John Potter, Chainman.
Alex Pace, Chainman.
, Moundman.
Henry Hunter, Moundman.
J. L. Pace, Axman.
, Axman.
J. M. Sturdivan; Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Herman E Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T 4 N R 2 W of the Wiulah Special Base and Meridian Utah

of the Wiulah 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

John Potter, Chainman.
Alex Pace, Chainman.
Henry Hunter, Moundman.
, Moundman.
J. L. Pace, Axman.
, Axman.
J. M. Sturdivan, Flagman.

Subscribed and sworn to before me this 22nd day of June 1904, 189

SEAL

Herman E Freudenthal
U S Deputy-Surveyor

6—151

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E Freudenthal, 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 20th 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 subdivision lines of Township 4 North Range 2 West 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.

Herman E Freudenthal
United States Deputy Surveyor

Subscribed by said Herman E Freudenthal, and sworn to before me this 3rd day of August 1904, 189

Edward H Anderson
U.S. Surveyor General
for Utah

SEAL

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City Utah October 21-1904.

The foregoing field notes of the survey of the subdivision lines of Township 4 North Range 2 West of the Utah Special Base and Meridian Utah

executed by Herman E Freudenthal under his contract No. 265, 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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4—679.

I

O.W.Y.
K.F.B.

AUG 3 1904

BOOK A-305

FIELD NOTES

OF THE SURVEY OF THE

The Subdivision lines

of

Fractl Tp. No. 5N R No 2W

Of the Uintah Special Base and Meridian,

State of Utah

AS SURVEYED BY

Hermon E. Freudenthal, United States Deputy Surveyor,

Under his Contract No. 268, dated July 20th, ~~189~~ 1903

Survey commenced July 1st 1904, 189

Survey completed July 7th 1904, 189

6—151

High 21 73.37'
Chg
Meanwhile high 1.52.07'

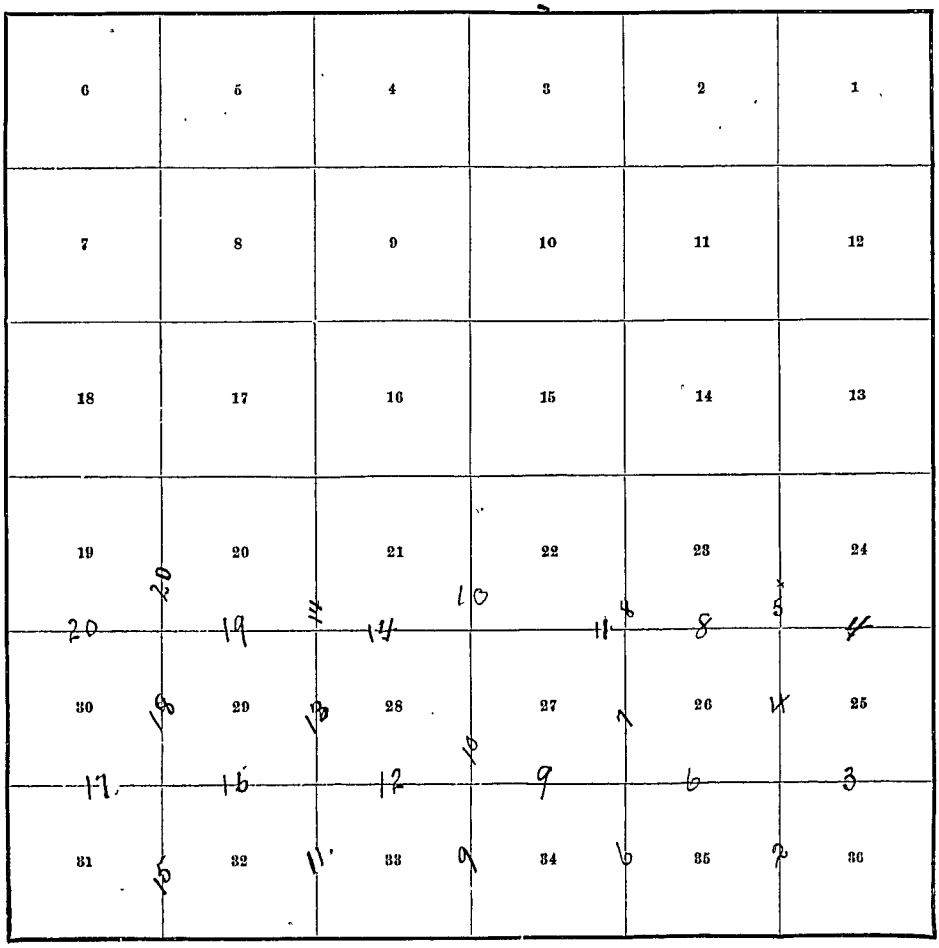
NAMES AND DUTIES OF ASSISTANTS.

J. M Studivan	Chairman
O.R. Moser	"
Richard Hugh Camp	Member
Douglas King	Member

BOOK A-305

INDEX DIAGRAM.

Township 5 N , *Range* 2 W



Meanders Page 22

PRELIMINARY OATHS OF ASSISTANTS.

WE, J. M. Sturdevan and O. R. Morse

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 of T 5 N. R 2 W. Uintah Special Base and Meridian Utah.

J. M. Sturdevan, Chainman

O. R. Morse, Chainman

Subscribed and sworn to before me this 1st day of July 1904, ~~189~~

SEAL

Herman Freudenthal
U. S. Deputy Surveyor

WE, I Richard Hugh Camp 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 of T 5 N. R 2 W. Uintah Special Base and Meridian Utah

, Moundman

Richard Hugh Camp, Moundman

Subscribed and sworn to before me this 1st day of July 1904, ~~189~~

SEAL

Herman Freudenthal
U. S. Deputy-Surveyor

WE, I Douglas King and

do solemnly swear that ~~we~~ I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given ~~us~~ me, to the best of ~~our~~ my skill and ability, in the survey of Subdivision of T 5 N. R 2 W. Uintah Special Base and Meridian Utah.

Douglas King, Axman

, Axman

Subscribed and sworn to before me this 1st day of July 1904, ~~189~~

SEAL

Herman Freudenthal
U. S. Deputy Surveyor

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 survey of

, Flagman

Subscribed and sworn to before me this day of , 189

SEAL

4-171

Subdivision of T 5N R 2W

Survey commenced July 3rd 1904.
for description of instrument see book. #
I begin at the Std cor. of Tp. 5N RS 1 and 2W
as established by me and hereto described
I examine the adjustments of the
instrument and correct the level
and collimation errors. Then to test
the solar apparatus by comparing its
indications resulting from solar ob-
servations made during a m. and p.m.
hours, with a meridian determined
by an observation on Polaris. I proceed
as follows.
At the Std. cor of Tp 5N RS. 1 and 2W:
latitude 40°47'10"N longitude 110° 03' 37"W
I set off 40°47'N on lat arc 22°58'N on the
decl. arc. and at 4h p.m. l.m.t
determine the meridian with solar
and mark a point thereof on a stone
firmly set in the ground 5 Chs N of the cor.
July 4th At 0h. 35m. a.m. by my watch which is 2m
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

July 4th. at 6h a.m. l.m.t. I lay off the
azimuth of Polaris 1°35' to the W and mark
the meridian thus determined by cutting
a small groove in the stone set earlier,
on which the meridian falls 0.4 ins
east of the mark determined by the solar.
At 8h 6m a.m. l.m.t. I set off 40°47'N on the
lat arc 22°54'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

Subdivision of T 5N R2W

chs.	the Polaris observation. The solar apparatus by Pm. and am observations defines positions for meridians 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 8h 30m am is N 16°43'W the angle thus determined gives the mag decl 16°43'E
	From the Tp. cor already described I retrace North bt secs 31 and 36 and at 40.01 Intersect the 1/4 sec cor and at 80.00 chs fall 1 lk E of the cor of secs 25-30-31 and 36 therefore the line bears North. I commence at the Std cor of secs 35 and 36 on S bdy of Tp. heretofore described. Thence I run N 0°1'W bt secs 35 and 36 over mountainous land descending steep rocky N.E. slope
23.00	Foot of steep descent 400 ft. below cor. enter timber bears NW and SE. Continue gradual descent
29.00	Creek 5 lks wide 6 ins deep course SE begin ascent SW slope
34.00	Spur projects SE 200 ft. above creek descend N.E. slope
40.00	Point for 1/4 sec cor falls on a rock in place 36 X 24 X 8 ins above ground. At point for cor I cut a cross (X) for 1/4 sec cor marked 1/4 to W of cross from which a pine 12 ins diam bears S71°E 12 lks dist marked 1/4 S 36 B.T. a pine 24 ins diam bears S83°W 30 lks dist marked 1/4 S 35 B.T.
48.00	Leave timber bears NW. and SE
54.00	Creek 20 lks wide 8 ins deep course SE 250 ft. below spur ascend SW slope

Subdivisions of T 5 N R 2 W

65.00	Enter timber bears NW and SE
80.00	Set a granite stone 16 x 10 x 6 ins 12 ins in the ground for the cor of secs 25-26 35 and 36. marked with 1 notch on the S and E edges. from which a pine 10 ins diam bears N 42° E 234 lks dist marked T 5 N R 2 W S 2. 5 B.T. a pine 24 ins diam bears S 51° E 102 lks dist marked T 5 N R 2 W S 36 B.T. a pine 7 ins diam bears S 32½° W 130 lks dist marked T 5 N R 2 W S 35 B.T. a pine 10 ins diam bears N 12° W 56 lks dist marked T 5 N R 2 W S 26 B.T, land mountainous soil stony 3rd and 4th rate mountainous or heavily timbered land 80.00 Chs
	East on a random line bet secs 25 and 36
40.00	Set temp ¼ sec cor.
80.00	Intersect S bdy of Tp. 6 lks N of the cor of secs 25-30-31 and 36 which is a stone post 6 x 10 x 5 ins above ground firmly set. marked and witnessed as described by Deputy Wm Dallas under his Contract No 267.
	Thence N 89° 57' W on a true line bet secs 25 and 36 over mountainous land ascending N.E. slope through timber
5.00	cross timber and enter open bears NW and SE
36.00	400 ft. also sec cor. point of S.E. slope descend along rocky SW slope
40.00	Set a granite stone 16 x 10 x 6 ins 12 ins in the ground for ¼ sec cor. marked ¼ on N and raise a mound of stone 2 ft base 1½ ft high N of cor. pits impracticable
60.00	Ridge bears N.W. and S.E. continue descent. Enter timber bears NW and SE.

Subdivision of T 5 N R 2 W

76.00	Draw course S.E. in rocky gulch 150 ft deep
80.00	The cor of secs 25-26-35 and 36
	Land mountainous
	Soil stony 3rd and 4th rate
	timber, pine and fir.
	mountainous or heavily timbered land 80.00 chs.
	July 4. At 12m. Clouds obscure the sun making lat observations impossible.

	N 0° 1' W bet secs 25 and 26
	Ascending rocky SW. slope through timber
18.00	Leave timber bears NW and S.E. Continue ascent bare rocky ridge
22.00	Gradual ascent SW slope
40.00	Set a granite-Stone 22x12x8 ins 16 ins in the ground for 1/4 sec cor. marked 1/4 on W face raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable. 1/4 sec cor. 500 ft above sec cor.
67.00	Top of ascent bears NW and S.E. 300 ft above 1/4 sec cor. descend
75.00	Head of draw course S.E. ascend.
80.00	Set a quartzite-Stone 22x12x6 ins. 17 ins in the ground for the cor of secs 23-24-25 and 26. marked with 2 notches on the S and 1 notch on E edges. raise a mound of stone 2 ft base 1 1/2 ft high W of cor pits impracticable.
	Land mountainous
	Soil stony 3rd and 4th rate
	timber pine
	mountainous or heavily timbered land 80.00 chs

	S 89° 57' E on a random line bet secs 24 and 25
40.00	Set temp 1/4 sec cor.
80.22	Intersect E bdy of Tp. 6 lks S of the cor of secs 19-24-25 and 30 which is a sand stone 8x12x6 ins above ground

marked and witnessed as described by Deputy Wm Dallas under his Contract No 267. Thence I run West on a true line bet Secs 24 and 25 Over mountainous land descending along rocky SW Slope.

40.11 Set a Sand Stone 14 x 8 x 5 ins 10 ins in the ground for 1/4 Sec Cor. marked 1/4 on N face raise a mound of Stone 2 ft base 1½ ft high N of Cor. Pits impracticable 1/4 Cor 400 ft below Sec Cor.

80.22 The Cor of Secs 23-24-25 and 26 Land mountainous Soil rocky 4th rate no timber mountainous land 80.22 Chs.

N 0° 1' W bet Secs 23 and 24 Over mountainous land ascending rocky & steep.

11.92 Intersect N Bdy of the Uintah Indian Reservation on top of dividing ridge Set a Sand Stone 16 x 14 x 10 ins 17 ins in the ground for Closing Cor Secs 23 and 24. marked C.C. U I R with 3 grooves on S. 1 groove on E and U F R on N face. Raise a mound of Stone 2 ft base 1½ ft high 8 of Cor. Pits impracticable From Closing Cor the 9th mile Cor on the Bdy as established by Deputies Attard & F. M. Brown bears S 88° 15' E 8.60 Chs dist Land mountainous Soil stony 4th rate — No timber mountainous land 11.92 Chs

July 4 - 1904

Subdivision of T5NR2W

July 5. at 8h a.m. l.m.t I set off 40°47'N on lat arc. 22°49'N on decl arc and determine a meridian at the Std cor of secs 34 and 35 on S bdy of Tp. heretofore described. Thence I run N0°2'W bet secs 34 and 35 over mountainous land ascending rocky S. Slope

8.00 Spur projects S.E. Enter pine timber hors NW and SE. descend rocky NE. Slope

16.00 Creek 15 lks wide 6 ins deep course SE 200 ft below spur begin ascent rocky SW slope

40.00 Set a granite stone 20×10×5 ins. 15 ins in the ground for 1/4 sec cor. marked 1/4 on W face from which.

a pine 6 ins diam hors N 17°E 40 lks dist marked 1/4 S 35 B.T.

a pine 12 ins diam hors N 85°W 80 lks dist marked 1/4 S 34 B.T.

53.00 Leave timber and enter open hors NW and SE

80.00 Top of ridge hors NW. and SE. 400 ft. above creek. point for cor falls on a rock in place 11×24×5 ins above ground. at cor point cut a cross (X) for the cor of secs 26-27-34 and 35 marked with 1 notch on S and 2 notches on E of cross. raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.

land mountainous

soil stony 3rd and 4th rate

timber pine

mountainous or heavily timbered land 80.00 Chs

East on a random line bet secs 26 and 35

40.00 Set temp 1/4 sec cor

80.04 Intersect N and S line 5 lks S of the cor of 25-26-35 and 36. Thence I run S 89°58'W on a true line bet secs 26 and 35

Subdivision of T 5 N R 2 W

	descending rocky NW slope through timber
12.00	Creek 10 lks wide 6 lks deep Course SE
	Ascend rocky N.E. Slope
40.04	Set a granite Stone 15 X 10 X 5 ins 10 ins in the ground for ¼ sec cor. marked ¼ on N face from which.
	a pine 16 ins diam bears N 45° W 17 lks dist marked ¼ S 26 B.T.
	a pine 12 ins diam bears S 40° E 55 lks dist marked ¼ S 35 B.T.
57.00	Enter timber bears NW and SE. enter open
80.00	Top of ridge bears NW and SE
80.04	The cor of sec 26-27-34 and 35
	Land mountainous
	Soil stony 3rd and 4th rate
	timber pine and fir.
	mountainous & heavily timbered Land 80.04 chs.

	N 0° 2' W Set sec 26 and 27
	Over mountainous land along rocky ridge bears NW and SE. gradual descent.
26.00	Descend steep rocky N.E. Slope
35.00	Creek 3 lks wide 6 ins deep Course ESE 300 ft. below top of ridge. begin ascent steep & slope over slide rock.
40.00	Set a Sand Stone 18 X 12 X 6 ins firmly in a mound of stone for ¼ sec cor. marked 1/4 on W face. raise a mound of stone 2 ft. base 1½ ft high W of cor. pits impracticable
80.00	800 ft. above Creek on rocky N. Slope
	Set a Sand Stone 15 X 10 X 6 ins 10 ins in the ground for the cor of sec. 22-23-26 and 27. marked with 2 notches on the S and E edges. raise a mound of stone 2 ft base 1½ ft. high W of cor. pits impracticable
	Land mountainous
	Soil Stony 4th rate
	no timber

mountainous land 80.00 chs
July 5th At 12h 4m a.m. l.m.t. I set off 22°48' N on decl arc and observe the sun as it passes the meridian resulting lat being 40°49' N. which is correct lat.

N 89°58' E on a random line bt secs 23 and 26
40.00 Set temp 1/4 sec cor
80.10 Intersect N and S line 10 lks N of the cor of secs 23-24-25 and 26 Thence I run N 89°58' W on a true line bt secs 23 and 26 Along rocky South slope of mountain.
40.05 Set a granite Stone 20x10x4 ins 15 ins in the ground for 1/4 sec cor. marked 1/4 on the N face. raise a mound of stone 2 ft. base 1½ ft. high N of cor pits impracticable
80.10 The cor of secs 22-23-26 and 27
land mountainous
Soil stony 4th rate
No timber
mountainous land 80.10 chs

N 0° 2' W bt secs 22 and 23
Over mountainous land ascending rocky South Slope
14.61 Intersect N bdy of the Wentah Indian Reservation on top of dividing ridge Set a granite Stone 16x10x5 ins 11 ins in the ground for Closing Cor Secs 22 and 23. Marked C C U.I.R with 3 grooves on S 2 grooves on E and U F R on N face raise a mound of stone 2 ft. base 1½ ft high S of cor. pits impracticable
From Closing Cor the 10th mile cor on the bdy as established by Deputies A H and F M Brown bears S 88°15' E 8.46 chs dist.
land mountainous
Soil stony 4th rate

no timber
mountainous land 14.61 chs
July 5th 04

July 6. At 8h a.m. l.m.t. I set off 40°47'N on lat arc 22°43'N on decl arc and determine a meridian at the Sta. cor. of secs 33. and 34 on S Bdy of Tp. heretofore described.
Thence I run N 0°2' W bt secs 33 and 34 over mountainous land ascending along SW slope of high rocky ridge.

40.00 Point for 1/4 sec cor. falls on rock in place 24x12x6 ins above ground at cor point I cut a cross (X) for 1/4 sec cor. marked 1/4 to W of cross. raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable

72.00 Top of high ridge bears NW and SE 600 ft above sec cor South over rocky top of ridge.

80.00 Set a granite-stone 18x12x5 ins 12 ins in the ground for the cor of secs 27-28-33 and 34. marked with 1 notch on the S and 3 notches on the E edges. raise a mound of stone 2 ft base 1 1/2 ft high W of cor. pits impracticable. cor falls on gradual N.E. slope.
land mountainous
soil stony 4th rate
no timber
mountainous land 80.00 chs.

East on a random line bt secs 27 and 34

40.00 Set temp 1/4 sec cor.

79.96 Intersect N and S line at the cor of secs 26-27-34 and 35 Thence I run West on a true line bt secs 27 and 34 Over mountainous land descending

rocky W slope

28.00 Spring hunch. 4 lks wide 6 ins deep course S 300 ft. below cor. ascend steep rocky S slope

39.98 Point for 1/4 sec cor falls on a rock in place 3 x 4 x 2 ft. above ground. Cut a cross (X) at the cor point for 1/4 sec cor marked 1/4 on N of cross. raise a mound of stone 2 ft. base 1 1/2 ft. high N of cor. pits impracticable

50.00 Top of steep ascent 600 ft. above creek Continue gradual ascent rocky S.E. slope

79.96 The cor of secs 27-28-33 and 34 900 ft. above creek.

land mountainous

soil stony 4th rate

no timber

mountainous land 79.96 Chs.

At 12 h. N clouds obscure the sun making lat observations impossible.

N 0° 2' W. Lt secs 27 and 28

Over mountainous land along rocky N.E. slope ascending.

20.00 Slope changes to S.E.

40.00 Set a quartzite stone 16 x 8 x 6 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on W face raise a mound of stone 2 ft base 1 1/2 ft. high W of cor. pits impracticable this cor is 250 ft. above sec cor.

68.25 Intersect the N Bdy of the Wintah Indian Reservation on top of dividing ridge Set a sand stone 20 x 12 x 6 ins 15 ins in the ground for Closing Cor secs 27 and 28 Marked C.C. U I R 2 grooves on S 3 grooves on E and U F R on N faces raise a mound of stone 2 ft. base 1 1/2 ft. high S of cor. pits impracticable

From the Closing cor the 11th mile cor on the Bdy as established by Deputies

Subdivision of T 5 N R 2 W

A. H. and F. M. Brown hors S 89° 15' E
13.68 Chs. dist. this cor is 600 ft. above
1/4 Cor.
Land mountainous
soil stony 4th rate
no timber
mountainous land. 68.25 Chs

From the cor of secs 22-23-26 and 27
I run. West on a true line bet
secs 21 and 27 over mountainous
land gradual ascent along rocky
S.E. Slope
37.28 Intersect N Bdy of the Wintah Indian
Reservation on top of dividing ridge.
Set a sand stone 20 x 10 x 5 ins 15 ins in
the ground for Closing Cor secs
22 and 27. marked C C U I R on E
& grooves on S and U F R on N faces
raise a mound of stone 2 ft. base
1 1/2 ft. high E of Cor. pits impracticable
From Closing Cor the 1/2 mile cor
bet the 10 and 11 mile pack on the
bdy as established by Deputies A. H.
and F. M. Brown. hors N 67° 45' E
8.70 Chs. dist.
Land mountainous
soil stony 4th rate
no timber
mountainous land. 37.28 Chs
July 6-1904

July 7- At 8 hr. a.m. l. mt. I set off. 40° 47' N.
on lat arc 22° 37' N on decl arc and
determine a meridian at the Std cor
of Secs 32 and 33. on S bdy of Tp heretofore described
Thence I run N 0° 3' W bet secs 32 and 33
Over mountainous land ascending
steep rocky S.E. Slope

	impracticable
57.00	abrupt descent over slide rock.
75.00	Draw course N.W. Stream 2 lks wide 3 ins deep in draw. foot of abrupt descent slope changes to N.W.
78.00	Leave open and enter pine timber keys N and S
79.98	The cor of secs 28-29-32 and 33
	land mountainous
	Soil stony 3rd and 4th rate
	timber pine
	mountainous or heavily timbered land. 79.98 chs
	at 12 M. the clouds obscure the sun making it impossible to observe lat.
	N 0°3' W let secs 28 and 29
	Over mountainous land descending N.W. slope through timber.
5.00	Spring hunch 2 lks wide 3 ins deep course N.W.
8.00	Spring hunch. 3 lks wide 6 ins deep course S.W. leave timber and enter open keys E and W leg in ascent rocky S.W. slope
14.00	rocky spur projects W 200 ft. above spring hunch descend rocky N.W. slope
24.00	Spring hunch 3 lks wide 6 ins deep course W. foot descent. ascend rocky [illegible]
34.00	Abrupt ascent of S slope over slide rock
40.00	Point for 1/4 sec cor falls on a rock in place 2X2X1 ft. above ground. at cor point cut a cross (X) for 1/4 sec cor marked 1/4 on W of cross. raise a mound of stone 2 ft. base 1½ ft. high W of cor. pits impracticable
	1/4 cor 150 ft. above spring hunch. continue steep ascent
58.00	Top of abrupt ascent. continue ascent of gradual S slope.
80.00	Set a sand stone 16X7X7 ins 17 ins in the ground for the cor of secs 20-21-28 and 29. marked with 2 notches on the S and 4 notches on the E edges raise

Subdivision of T 5 N R 2 W

Set a sand stone 18 X 12 X 6 ins 12 ins in the ground for Closing Cor secs 20 and 21 marked C.C. U 1 R 2 grooves on S 4 grooves on E and U F R on N faces raise a mound of stone 2 ft base 1½ ft high S of cor. pits impracticable From Closing Cor the 12 mile cor on the bdy as established by Deputies A.H. and F.M. Brown bears S 63° 45' E 22.50 chs dist

land mountainous
soil stony 4th rate
no timber
mountainous land 24.05 chs

July 7-1904

July 8. At 8 a.m. l.m.t. I set off 40° 47' N on lat arc 22° 30' N on decl arc and determine a mer. with solar at Std. cor of secs 31 and 32 on S bdy of Tp. heretofore described
Thence I run N 0° 4' W bet secs 31 and 32 over mountainous land descending North slope

7.50 Creek 5 lks wide and 6 ins deep Course W
9.00 Leave open and enter timber bears E and W
25.00 Spur projects W 100 ft above creek descend NW slope.
38.00 On South bank of Lake or small pond 3 chs wide and 2 ft deep. Set a granite stone 18 X 12 X 10 ins 12 ins in the ground for W¼ sec cor marked W.C. ¼ on W face from which.
a pine 30 ins diam bears N 88° E 70 lks dist marked W.C. ¼ S 32 B.T.
a pine 30 ins diam bears S 52° W 69 lks dist marked W.C. ¼ S 31 B.T.
40.00 point for ¼ sec cor falls in pond. Cor. not set.
41.00 North bank of pond. Pond drains West ascend S. slope
44.00 Spur projects SW 75 ft above pond

Subdivision of T5N R2W

	descend NW slope
58.00	Creek 5 lks wide 6 ins deep course SW 150 ft below spur ascend SW slope
62.00	Spur projects W descend NW slope timber becomes scattering
79.86	On S bank of Creek drains SW 20 lks wide and 6 ins deep. Set a granite stone 18 x 10 x 6 ins 12 ins in the ground for W.C. to secs 29-30-31 and 32. marked with 1 notch on S and 5 notches on E edges and W.C. on N. face. from which
	a pine 10 ins diam bars S 7° E 105 lks dist marked W.C. T5N R2W S 32 B.T.
	a pine 10 ins diam bars S 23° W 265 lks dist marked W.C. T5N R2W S 31 B.T
	As there are no trees north of line raise a mound of stone 2 ft base 1½ ft high W of cor. pits impracticable.
80.00	Point for sec cor. falls in Creek. cor not set.
	Land mountainous
	Soil stony 3rd rate —
	timber pine
	mountainous or heavily timbered land 80.00 lks
	From point for cor to secs 29-30-31 and 32 I run. East on a random line bt secs 29 and 32
40.00	Set temp ¼ sec cor.
79.80	Intersect N and S line 11 lks N of the cor of secs 28-29-32 and 33. Thence I run N 89°55W on a true line bt secs 29 and 32 Over mountainous land. descending NW slope through timber.
11.00	Creek 5 lks wide 6 ins deep course SW 150 ft below cor. line along S slope.
39.90	Point for ¼ sec cor falls on a rock in place 20 x 12 x 7 ins above ground. at cor point cut a cross (X) for ¼ sec cor. marked ¼ on N of cross from which.
	a pine 14 ins in diam bars N 72° E 26 lks dist

Subdivision of T 5 N R 2 W

	marked 1/4 S 29 B.T.
	a pine 16 ins diam bears S.8° E 6.7 lks dist
	marked 1/4 S 32 B.T.
44.00	Soil bears NW and SE
52.00	Low ridge bears NE and SW descend
	along NW slope.
74.00	Leave timber and enter open bears NE and W
75.50	Creek 5 lks wide 6 ins deep course NW.
79.70	Left bank of creek 20 lks wide 6 ins deep
	Course SW.
79.80	Point for Cor of Secs 29-30-31 and 32
	Cor not set. as it falls in creek
	land mountainous
	Soil stony 3rd rate
	timber pine and fir
	mountainous & heavily timbered land 79.80 chs
	At 12M Clouds obscure the Sun impossible to observe latitude

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	From point for Cor to Secs 29-30
	31 and 32. I run West on a
	random line between Secs 30 and 31
16.42	on N.E. bank of lake set temp M.C.
	to pass lake I offset 3 chs to N
	Thence West 11.04 chs. Thence S. 3.00 chs.
	to line on NW bank of lake set temp
	M.C. Thence West
40.00	Set temp 1/4 Sec cor
79.96	Intersect West bdy of Tp. at the cor of
	Secs 25-30-31 and 36 heretofore described.
	Thence I run East on a true line bet Secs
	30 and 31. Over mountainous land
1.00	Creek 10 lks wide 8 ins deep course SW
	Ascend SW slope
8.00	Leave open and enter timber bears NE and SW
20.00	Spur projects SW. line along S Slope
39.96	Set a granite-stone 16 x 12 x 6 ins 12 ins in the
	ground for 1/4 Sec cor. inscribed 1/4 on N face
	from which
	a pine 10 ins diam bears N 52° E 15 lks dist
	marked 1/4 S 30 B.T.
	a pine 12 ins diam bears S 65° E 31 lks dist.

	marked 1/4 S 31 B.T.
49.00	From timber enter open here N.E. and N.W. descend N.E. slope to lake
52.50	on N.W. bank of lake Set a granite Stone 20 x 12 x 6 ins. 15 ins in the ground for M.C. for cor Secs 30 and 31 marked M.C. on E and 1 groove on S faces. raise a mound of stone 2 ft base 1½ ft high W of cor. pits inspected by
63.54	on N.E. bank of lake. point for M.C. falls on a rock in place 18 x 24 x 8 ins above ground at point for cor cut a cross (X) for M.C. for cor Secs 30 and 31 marked with 1 groove to S and M.C. to W of Cross raise a mound of stone 2 ft base 1½ ft high E of cor pits inspected by
79.86	right bank of creek 20 lks wide 6 ins deep course N.W.
79.96	The point for cor of Secs 29-30-31 and 32.
	land mountainous soil stony 3rd rate timber pine and fir mountainous or heavily timbered land 79.96

	From point for cor to Secs 29-30-31 and 32 N 0° 4' W Bet Secs 29 and 30 Over mountainous land ascending S slope
0.06	Cross Creek
0.12	On N.W. bank of Creek. Set a Rnd stone 18 x 12 x 8 ins 12 ins in the ground for W.C. to cor of Secs 29-30-31 and 32 marked with 1 notch on S and 5 notches on E edges. W.C. on S face. raise a mound of stone 2 ft base 1½ ft high W of cor pits inspected by
1.30	Creek 15 lks wide 1 ft deep course N.W.
12.00	Leave open and enter timber here N.W. and N.W.
21.00	Top of ridge here E and W 200 ft above Cr. descend N.W. slope

Subdivision of T 5N R 2W

25.00	Head of draw course W ascend SW slope
40.00	Set a granite stone 16 x 14 x 8 ins 12 ins in the ground for 1/4 Sec Cor marked 1/4 on W face from which a pine 6 ins diam bears S 69½° E 60 lks dist marked 1/4 S. 29 B.T. a pine 18 ins diam bears N 36° W 88 lks dist marked 1/4 S 30 B.T.
43.00	Enter timber enter open bears E and W
49.50	Top rocky ridge bears NW and SE
51.00	Trail bears NW and SE descend NE slope
66.00	Creek 15 lks wide 1 ft deep course SE ascend along NW slope
80.00	Set a granite stone 16 x 10 x 7 ins 12 ins in the ground for the Cor to Secs 19-20-29 and 30. Marked with 2 notches on the S and 5 notches on the E edges. Raise a mound of stone 2 ft base 1½ ft high W of Cor. Pits impracticable Land mountainous Soil stony 3rd rate timber pine and fir. Mountainous or heavily timbered land 80.00 Chs

July 8th 1884

S 89° 55' E on a random line bet Secs 20 and 29

40.00	Set temp 1/4 Sec Cor
79.92	Intersect N and S line 6 Chs E of the Cor of Secs 20-21-28 and 29.

Thence Trav. N 89° 58' W on a true line bet Secs 20 and 29 Over mountainous land descending along rocky NW slope of high mountain.

39.96	Set a granite stone 14 x 10 x 8 ins 9 ins in the ground for 1/4 Sec Cor. marked 1/4 on N face. Raise a mound of stone 2 ft base 1½ ft high W of Cor pits impracticable Cor. 50 ft below Sec Cor.

Subdivision of T 5 N R 2 W

57.00	abrupt descent over slide rock and leagues
69.00	foot of abrupt descent. continue gradual descent
79.92	The cor of secs 19-20-29 and 30
	land mountainous
	soil stony 4th rate.
	No timber
	mountainous. land 79.92 chs

July 9 at 10hr a.m. l mt. I set off 40°49'N on lat arc 22°22'N on decl arc and determine the meridian at the cor of secs 19-20-29 and 30. Thence I run West on a random line bt secs 19 and 30

40.00	Set temp 1/4 sec cor.
80.10	Intersect W bdy of Tp 6 lks S of the cor of secs 19-24-25 and 30 as previously described. Thence I run S89°57'E on a true line bt secs 19 and 30 descending along rocky S.E. slope of mountain.
40.10	Set a sand stone 18x10x5 ins 12 ins in the ground for 1/4 sec cor. marked 1/4 on N face. raise a mound of stone 2 ft base 1 1/2 ft high N of cor. pits impracticable
71.50	Creek 10 lks wide 1 ft deep course SE ascend S.W. slope. lake about 10 a in extent bears N 10°W about 12 chs dist.
80.10	The cor of secs 19-20-29 and 30
	land mountainous
	soil stony 4th rate
	no timber
	mountainous land 80.10 chs

July 9 at this cor at 12h 4m p.m. l mt I set off 22°22'N on decl arc and observe the sun as it passes the meridian resulting lat being 40°49'N which is correct lat.

N 0°4'W Bet secs 19 and 20

Subdivision of T 5N R 2W

Over mountainous land ascending rocky S.W. slope

27.40 Intersect the N Bdy of the Winlah Indian Reservation on top of dividing ridge Set a sand stone 24x12x5 ins 18 ins in the ground for Closing Cor Secs 19 and 20 marked C.C. U.I.R. 2 grooves on S 5 grooves on E and UFR on N faces raise a mound of stone 2 ft base 1½ ft high S of cor. pit impracticable From Closing cor. the 13th mile cor on the bdy as established by Deputies A.H. and F.M. Brown Secs N 86°15'E 24.57 chs dist.

land mountainous

Soil stony 4th rate —

no timber

mountainous land 27.40 chs

July 9th 1904

Meanders T 5N R2W

Meanders of lake through Sec. 30
I commence at the meander cor between Secs 30 and 31 on N.E. bank of lake. Thence I run with meanders in Sec 30. Bank of lake 3 ft high mountainous land along S slope of ridge

N64°W 5.80 Chs.
S67°W 6.37 Chs. to M.C. on NW bank of lake.
Land mountainous. Soil stony 3rd rate no timber
Mountainous land. 12.17 Chs.

Meanders of Lake through Sec. 31
along SE slope of mountain

S63°W 11.00 Chs.
S1°30'E 4.00 " leave open enter timber
S34°30'E 3.00 "
S6°30E 5.00 " 4.30 Chs. outlet of lake creek 25 lks wide 1 ft deep course SW
S54°30'E 3.10 "
N73°E 8.00 "
S24°E 3.00 "
S63°30'W 1.00 "
S86°30'W 4.00 "
S46°30W 9.00 "
S72°W 5.30 "
S29 E 1.80 " Spring branch 2 lks wide from SW
S87°30'E 5.00 "
S80°E 3.00 "
S87°30'E 8.00 " 2.00 Chs creek 3 lks wide 6 ins deep from S leave timber and enter open along N slope
N66°E 11.20 "
N0°30'W 4.00 " 2.00 Chs creek 2 lks wide 6 ins deep from SE
N50°30'W 4.60 "
N44°E 6.00 "
N50°E 5.00 "
N12°W 4.00 " 2.10 Creek 3 lks wide 4 ins deep from E
N20°W 5.00 " 4.30 main inlet of lake creek 20 lks wide 1 ft deep from NE
N60°15'W 5.90 " to M.C. to fract secs 30 & 31 & place of
leave mine. Land mountainous soil 3rd rate timber pine. Mountainous heavily timbered land 119.90 Chs.

General Description

This Trocll. Tp. is entirely mountainous and mostly above timber line. A small basin in the Cor and the S. E cor being the only portions below timber line. These portions are covered with groves along streams and in openings in timber and would be good grazing land during summer months. The high ridges are a mass of rock. The lakes and streams have no fish in them but would be fine place for fish and should be stocked. No settlers in the Tp nor found no indication of mineral. The lakes in Secs 26. 33 and 34 not seen from line.

Herman Ehrendenthal
U.S. Deputy Surveyor

There being no notary public or other official authorized to administer oaths within a reasonable distance at the beginning and ending of these surveys. Therefore in order to save time and expense I administer the preliminary and final oath myself.

Herman Ehrendenthal
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 Hermon E. Freudenthal, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of Frodl Tp No 5 N Range No 2 W. Wuilah Special Base and Meridian Estate showing the respective capacities in which they acted:

J. M. Sturdivan, Chainman.
O. R. Morse, Chainman.
Richard Hugh Camp, Moundman.
, Moundman.
Douglas King, Axman.
, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hermon E. Freudenthal, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision lines of Frodl Tp No 5 N Range No 2 W of the Wuilah 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.

J. M. Sturdivan, Chainman.
O. R. Morse, Chainman.
, Moundman.
(Richard Hugh Camp), Moundman.
Douglas King, Axman.
, Axman.
, Flagman.

Subscribed and sworn to before me this 19th day of July 1904, 189

SEAL

Herman E. Freudenthal
U. S. Deputy Surveyor

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herman E. Freudenthal, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward M. Anderson United States Surveyor General for Utah, bearing date of the 20th 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 The Subdivisions of Township 5 North Range 2 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.

Herman E. Freudenthal
United States Deputy Surveyor.

Subscribed by said Herman E. Freudenthal and sworn to before me this 3d day of August 1904.

SEAL

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

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, October 21, 1904.

The foregoing field notes of the survey of The Subdivisions of Township 5 North Range 2 West of the Uintah Special Base and Meridian, State of Utah

executed by Herman E. Freudenthal under his contract No. 268, 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 M. 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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